## TRAFFIC <br> TECHNICAL MEMORANDUM



## I-75 (SR 93) PD\&E Study

From North of SR 52 to South of CR 476B
(Pasco, Hernando, and Sumter Counties)
FAP No.: 0751-1201
WPI No.: 411014-1
J une 2007

Florida Department of Transportation District Seven

## TRAFFIC TECHNICAL MEMORANDUM

I-75 (SR 93) Project Development and Environment (PD\&E) Study

I-75 from North of SR 52 to South of CR 476B
(Pasco, Hernando, and Sumter Counties)

| FAP No.: | $0751-120 I$ |
| :--- | :--- |
| WPI No.: | $\mathbf{4 1 1 0 1 4 - 1}$ |

This proposed action consists of capacity and safety improvements to I-75 (SR 93), a four-lane divided limited access freeway, from North of SR 52
(Pasco County) to South of CR 476B (Sumter County)

Prepared for:
FLORIDA DEPARTMENT OF TRANSPORTATION
District Seven

Prepared by:
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June 2007

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# TRAFFIC TECHNICAL MEMORANDUM <br> I-75 (SR 93) PD\&E STUDY; PASCO, HERNANDO, AND SUMTER COUNTIES 

## 1 INTRODUCTION

The Florida Department of Transportation (FDOT) has conducted a Project Development and Environment (PD\&E) study to evaluate capacity improvements along a portion of Interstate 75 (I-75) -State Road (SR) 93. The limits of the study extend from just north of SR 52 in Pasco County to just south of County Road (CR) 476B in Sumter County, Florida, a distance of approximately 20.8 miles. The design year for the improvements is Year 2030. Figure 1 illustrates the location and limits of this project.

### 1.1 Purpose

The objective of this PD\&E study is to document the engineering and environmental analyses that were performed for this project so that the FDOT and the Federal Highway Administration (FHWA) can reach a decision on the type, location, and conceptual design of the necessary improvements of I-75 to accommodate future traffic demand in a safe and efficient manner. This study documents the need for the improvements as well as the procedures utilized to develop and evaluate various improvement alternatives. Information related to the engineering and environmental characteristics, which are essential for the alternatives analysis, was collected. Design criteria were established and preliminary alternatives were developed. The comparison of alternatives was based on a variety of parameters utilizing a matrix format. This process identified the alternative that would have minimal impacts, while providing the necessary improvements.

The PD\&E study satisfies all applicable requirements, including the National Environmental Policy Act (NEPA), in order for this project to qualify for federal-aid funding of subsequent development phases (design, right-of-way acquisition, and construction). This Traffic Technical Memorandum (TTM) is one in a series of reports prepared as part of this PD\&E Study. This report documents the existing (2005), opening (2010), interim (2020) and design year (2030) traffic conditions; the development of traffic parameters for the estimation of annual average daily traffic (AADT) and design hour volumes (DHV); and capacity and Level of Service (LOS) analyses of the design alternatives for this project.


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### 1.2 Description of Project

I-75 is an interstate, limited access freeway. It is included in the State Highway System (SHS), designated as SR 93, the Florida Intrastate Highway System (FIHS), the Strategic Intermodal System (SIS), and the Federal Aid Interstate System. I-75 also serves as a major evacuation route throughout the state. Within the study limits, I-75 is a four-lane, divided, limited access, rural highway that generally occupies 300 feet of right of way.

The study area includes two interchanges and two rest areas (one in each direction). Specifically, a partial cloverleaf interchange is currently provided at Blanton Road (CR 41) approximately 6.3 miles north of SR 52 in Pasco County and a diamond interchange is present at Cortez Road (SR 50/US 98), approximately 9.3 miles north of CR 41 in Hernando County. The rest areas are located approximately 4.9 miles north of SR 50, in Sumter County.

From north of SR 50 to the northern terminus of the project, the Withlacoochee State Forest abuts the entire western border of I-75 and most of its eastern border. At the Hernando/Sumter County line, approximately 1.5 miles from the northern project terminus, I-75 crosses the Withlacoochee River. In addition, a number of potential and approved Developments of Regional Impact and smaller developments are located along both sides of the study area. Most of them are located in Hernando County, south of SR 50.

The study area for this project extends from just north of SR 52 in Pasco County to just south of CR 476B in Sumter County, Florida; a distance of approximately 20.8 miles. The study area encompasses the following Sections, Townships, and Ranges:

- Pasco County:
- Sections 5 and 8 of Township 25 S, Range 20 E
- Sections 2, 3, 9, 10, 16, 17, 20, 21, 28, 29, 32, 33 of Township 24 S, Range 20 E
- Hernando County:
- Sections 13, 23, 24, 26, 35 of Township 23 S, Range 20 E
- Sections 5, 6, 7, 18 of Township 23 S, Range 21 E
- Sections 16, 17, 19, 20, 29, 30, 31, 32 of Township 22 S, Range 21 E
- Sumter County:
- Sections 4, 9, 16 of Township 22 S, Range 21 E.

To facilitate development and evaluation of the improvement alternatives, the project was divided into three segments:

- Segment 1: from north of SR 52 (southern project terminus) to the Pasco/ Hernando county line; 7.8 miles
- Segment 2: from the Pasco/Hernando county line to SR 50; 7.0 miles
- Segment 3: from SR 50 to just south of CR 476B (northern project terminus); 6.0 miles.


### 1.3 Methodology

This TTM was prepared consistent with the appropriate transportation planning procedures and guidelines. The Pasco County Metropolitan Planning Organization (MPO) and Hernando County MPO both have included the widening of I-75 to a six-lane, divided facility in the Cost Affordable Plans of their Long Range Transportation Plans (LRTP). This improvement would increase overall system capacity, improve safety and reduce the growing congestion problem on I-75. I-75 in this area is increasingly being used as a commuter route to Tampa. In addition, the FDOT has designated I-75 within the limits of this project as a "transitioning" (from rural to urban) area. Therefore, according to FIHS standards, all of its components (mainline, ramps, merge/diverge areas) should provide adequate capacity to operate at level of service (LOS) "C" or better.

The development of this TTM is consistent with the procedures of the FDOT Project Traffic Forecasting Handbook. The Tampa Bay Regional Planning Model, Version 5.1 was used to develop design year (2030) traffic volumes (20 years post assumed opening year of 2010). For the purposes of this study, I-75 was assumed to be four-lanes divided in the No-Build alternative. The traffic analysis conducted for this TTM included:

- collecting traffic volume information, previous traffic studies, roadway characteristics and other necessary data,
- conducting existing traffic analysis including freeway segment, ramp merge / diverge analysis, and intersection capacity analysis,
- development of design and interim year traffic (furnished by FDOT),
- conducting design year traffic analysis, and
- evaluating build and no-build conditions.

A series of improvement alternatives are provided in this report to correct locations where future conditions will not meet the LOS standard of "C". Improvements are evaluated in this report for their effectiveness in handling traffic demands and should not be considered final recommendations from the PD\&E study. Recommended improvements from the overall PD\&E study will need take into consideration other factors such as cost, constructability, right of way impacts, and future plans.

## 2 EXISTING CONDITIONS

### 2.1 Roadway and Intersection Characteristics

FDOT has designated I-75 as SR 93 - Section 14140000 in Pasco County, SR 93 - Section 08 150000 in Hernando County, and SR 93 - Section 18130000 in Sumter County. I-75 is part of the Florida Strategic Intermodal System (SIS), which is FDOT's network of significant transportation facilities providing statewide movement of people and goods and providing links to major intermodal facilities, such as ports and terminals. The SIS's minimum standards for LOS and design are derived from the Florida Intrastate Highway System's (FIHS) parameters. Since the study area is in a transitioning (from rural to urban) area type, the LOS standard for I75 in the study area is LOS C.

Within the study limits, I-75 is a four-lane, divided, limited access, interstate highway in a primarily rural setting. The roadway has 12 -foot lanes, 10 -foot outside paved shoulders, 4 -foot inside paved shoulders, an open-drainage section and generally a standard 64-foot wide median. The median width is wider than standard through certain curve sections along the study area. The speed limit is posted at 70 miles per hour. Rest areas are located on both sides of the mainline in Sumter County. The exit from I-75 and entrance onto I-75 at the northbound rest area is approximately 1,700 feet and 3,200 feet north of the Withlacoochee River Bridge, respectively. The exit from I-75 and entrance onto I-75 at the southbound rest area is approximately 3,700 feet and 2,500 feet north of the Withlacoochee River Bridge, respectively.

I-75 within the study area has two interchanges at CR 41 (Blanton Road - Exit 293) in Pasco County and at SR 50 (Cortez Boulevard - Exit 301) in Hernando County. The CR 41 interchange is a two quadrant cloverleaf interchange with short off-ramp lengths that cause low speeds on the off-ramps and could affect traffic operations on the mainline during heavy traffic periods. SR 50 is a standard diamond interchange with off-ramps in the southeast quadrants and northwest quadrants and on-ramps in the southwest and northeast quadrants of the interchange. CR 41 is a two-lane undivided arterial that connects I-75 to Dade City and Spring Hill. SR 50 is a four-lane divided arterial that connects I-75 to Brooksville and Ridge Manor. The LOS

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standard for the ramp terminals at CR 41 is LOS D. The LOS standard for the ramp terminals at SR 50 the standard is LOS C. The ramp terminals at the CR 41 interchange currently are unsignalized, with one-way stop control on both off-ramp terminals. The ramp terminals at SR 50 are signalized.

### 2.2 Collection of Traffic Data

Field traffic counts collected for this project include 72-hour machine counts and 6-hour (6:00 a.m. to 9:00 a.m. and 4:00 p.m. to 7:00 p.m.) manual turning movement counts, which were conducted generally from Monday afternoon to Friday morning during the week of March 14, 2005. Machine counts included the count of trucks and intersection turning movement counts included the count of pedestrians and bicycles. The 72 -hour machine counts were conducted at nine (9) locations and the turning movement counts were collected at the four (4) ramp terminal locations, as shown on Figure 2, and listed below. Summaries of the mainline count data and ramp terminal/cross street turning movement counts are provided in Appendices A and B , respectively.

- Three-day (72-hour) mainline / side street machine volume count locations:
(1) I-75 between SR 52 and CR 41 interchanges
(2) CR 41 (Blanton Road) west of I-75 Interchange
(3) CR 41 (Blanton Road) east of I-75 Interchange
(4) I-75 between southbound off-ramp and northbound off-ramp at CR 41 Interchange
(5) I-75 between CR 41 and SR 50
(6) SR 50 (Cortez Boulevard) west of I-75 Interchange and immediately east of LaRose Road
(7) SR 50 (Cortez Boulevard) east of I-75 Interchange and immediately west of Windermere Road
(8) I-75 between southbound off-ramp and northbound off-ramp at SR 50 Interchange
(9) I-75 between SR 50 and Withlacoochee River Bridge (Hernando - Sumter County Line)


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## Traffic Count Locations

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- Intersection turning movement count locations:
(10) CR 41 (Blanton Road) at I-75 southbound on-ramp and off-ramp
(11) CR 41 (Blanton Road) at I-75 northbound on-ramp and off-ramp
(12) SR 50 (Cortez Boulevard) at I-75 southbound on-ramp and off-ramp
(13) SR 50 (Cortez Boulevard) at I-75 northbound on-ramp and off-ramp

A review of the 72-hour machine traffic counts indicates that they are incomplete. According to the count consultant, the count tubes became detached from the roadway surface numerous times during the counting period. This was caused by rain on the roadway that loosened the tape and nails attaching the tube to the roadway surface. This situation was discussed with FDOT project management to determine if new counts should be conducted. It was concluded that the data was sufficient for the purposes of this project with some manual adjustments and FDOT gave approval to use this data.

Additional traffic data collected for use in this study includes:

- Year 2005 and 2025 Tampa Bay Regional Planning Model Data
- Year 2003 FDOT - Florida Traffic Information CD (FTI CD)
- Year 2005 FDOT - Florida Traffic Information CD (FTI CD)
- Year 2005 FDOT - Florida Traffic Information (FTI DVD)
- Design year (2030) traffic projections from the Traffic Technical Memorandum conducted by District 5 for a segment of I-75 north of the study corridor.

Based on a review of the collected traffic counts, traffic patterns on I-75 in the study area are representative of rural conditions that do not follow typical commuter travel patterns. In the northbound direction, the peak hour, peak direction for traffic is generally between 10:00 a.m. and 1:00 p.m. in the northbound direction. A second peak hour occurs in the northbound direction around 3:30 p.m. to 4:30 p.m., which is generally $10 \%$ less than the prior peak hour volume. Southbound traffic is less than northbound traffic and its peak hour lies between 8:30 a.m. and 11:30 a.m. Since traffic was collected in March 2005, these traffic numbers may be skewed, as this is a heavy period for seasonal residents to drive north to their summer residences.

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Peak hour traffic on CR 41 and SR 50 follow more typical commuting times with the morning peak direction occurring towards the I-75 from 6:30 a.m. to 7:30 a.m. and the afternoon peak direction occurring away from the I-75 from 3:30 p.m. to 4:30 p.m.

### 2.3 Traffic Parameters

The existing year (2005) AADT for mainline and ramp locations was estimated by multiplying the collected machine counts by the appropriate axle factor (AF) and seasonal factor (SF) provided by the FTI CD. AADTs derived were consistent with the FDOT provided volumes shown in Appendix C. Design Hour Volumes (DHV) for mainline and ramp locations were determined by applying the appropriate "K" and "D" factor to each AADT.

The design year (2030) AADT values were provided by FDOT (See Appendix C). FDOT developed the project traffic through the use of the Tampa Bay Regional Planning Model (TBRPM) version 5.1 model traffic (smoothed) and the I-75 District 5 PD\&E Study. Mainline directional design hour volumes (DDHV) were determined by multiplying the appropriate $\mathrm{K}_{30}$ and $\mathrm{D}_{30}$ factors to the AADT.

FDOT District 7 Planning staff provided $\mathrm{K}_{30}$ and $\mathrm{D}_{30}$ factors for mainline I-75. These factors were: $K_{30}$ of 9.40 and $D_{30}$ of 56.35 . The $K_{30}$ factor provided by the FDOT is at or near the statewide observed minimum values for both rural and urban freeways, as seen in Table 1. This value is extremely low compared to the national K-factor range for rural freeways, yet within the national K-factor range for urban freeways, which implies that this area is transitioning from rural to urban. The provided $\mathrm{D}_{30}$ factor falls within both the statewide and national D -factor ranges for both rural and urban areas, as seen in Table 1.

A review of historical data available over the last three years was performed, as shown in Table 2. It was found that the FDOT provided factors are consistent with historical data, as the $\mathrm{K}_{30}$ factor ranges from 8.76 to 9.52 and the $\mathrm{D}_{30}$ factor ranges from 53.67 to 57.42 over the three year period. Therefore, the traffic factors ( $\mathrm{K}_{30}$ of 9.40 and $\mathrm{D}_{30}$ of 56.35 ) used for mainline I-75 were considered reasonable.

Table 1
Comparison of Site Specific Data with State and National Data

| Facility Type | K-Factor Ranges | FDOT Site Data* |  | State Data** |  | National Data** |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\mathrm{K}_{30}$ | $\mathrm{D}_{30}$ | $\mathrm{K}_{30}$ | $\mathrm{D}_{30}$ | $\mathrm{K}_{30}$ | $\mathrm{D}_{30}$ |
| Rural Freeway | Observed Minimum | 8.76 | 52.76 | 9.60 | 52.30 | 15.00 | 54.00 |
|  | Observed Maximum | 8.76 | 52.76 | 14.60 | 57.30 | 20.00 | 62.00 |
| Urban Freeway | Observed Minimum | - | - | 9.40 | 50.40 | 7.00 | 52.00 |
|  | Observed Maximum | - | - | 10.00 | 61.20 | 10.00 | 57.00 |

* Source: Florida Traffic Information CD, 2003
** Source: FDOT Project Traffic Forecasting Handbook, 2002

Table 2
Traffic Characteristics for the I-75 PD\&E Study Area

| Count <br> Station | Location | Year | FTICD AADT | $\mathrm{K}_{30}$ | $\mathrm{D}_{30}$ | $\mathrm{T}_{24}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0093 | I-75 (SR 93) - North of SR 52 | 2001 | 43,500 | 8.94 | 55.00 | 27.69 |
|  |  | 2002 | 39,500 | 8.99 | 56.15 | 25.36 |
|  |  | 2003 | 41,500 | 8.76 | 53.67 | 25.36 |
| 0094 | I-75 (SR 93) - North of CR 41 | 2001 | 35,500 | 8.94 | 55.00 | 22.03 |
|  |  | 2002 | 33,500 | 8.99 | 56.15 | 33.01 |
|  |  | 2003 | 35,500 | 8.76 | 53.67 | 33.01 |
| 0037 | I-75 (SR 93) - North of SR 50 | 2001 | 37,000 | 9.52 | 57.42 | 32.20 |
|  |  | 2002 | 38,500 | 8.99 | 56.15 | 26.95 |
|  |  | 2003 | 42,000 | 8.76 | 53.67 | 26.95 |
| 0046 | SR $50-$ West of I-75 | 2001 | 16,200 | 9.62 | 56.39 | 19.94 |
|  |  | 2002 | 18,800 | 9.58 | 56.69 | 15.49 |
|  |  | 2003 | 18,000 | 9.59 | 56.45 | 15.49 |
| 0018 | SR 50 - East of I-75 | 2001 | 16,200 | 9.62 | 56.39 | 21.29 |
|  |  | 2002 | 18,100 | 9.58 | 56.69 | 18.96 |
|  |  | 2003 | 15,600 | 9.59 | 56.45 | 18.96 |

Source: Florida Traffic Information CD; 2001, 2002, and 2003 Versions

At the beginning of this study (April 2005), FDOT provided traffic factors $K_{30}$ of 8.79 and $D_{30}$ of 53.67 for mainline I-75. These factors were later revised in June 2005 based on internal FDOT review to $\mathrm{K}_{30}$ of 10.75 and $\mathrm{D}_{30}$ of 56.35 . Although the $\mathrm{K}_{30}$ factor lies closer to the range recommended in the FDOT Project Traffic Forecasting Handbook (See Table 1) it is much higher than what has been observed in historical counts performed by FDOT (See Table 2). Lochner recommended that a $\mathrm{K}_{30}$ factor of 9.40 should be used since this lies on the lower end of FDOT recommendations for urban freeways and is consistent with historical observations on I75. Also, the $\mathrm{K}_{30}$ factor of 9.40 compares more favorably to the factors used in similar type studies on I-75 conducted by FDOT north and south of this study area and is more similar to the $\mathrm{K}_{30}$ derived from the traffic counts conducted for this study. FDOT agreed to use this factor in June 2006. All correspondence regarding this issue is included in Appendix C.

DHVs for the crossroads were developed based on the K and D factors on SR 50 provided on the FDOT Traffic CD (2005). These factors were $K_{30}=9.61$ and $D_{30}=54.5$. These factors are slightly different than mainline I-75 but are more representative of the nature of the crossroad traffic. Factors for CR 41 were not available; therefore, the factors for SR 50 were used as the patterns are believed to be similar on these two east-west facilities.

For this study, FDOT set the 24 -hour Truck (T24) factor for the mainline I-75 segments as $27.0 \%$. The Design Hour T-factor for mainline I-75 was set to $13.5 \%$ (See Appendix C). This is consistent with Table 2 which shows that in 2003, the T24-factor ranged from 25.36 to 33.01 for the count stations covered in this study.

Figure 3 shows the AADT from the 2003 FTI CD and presents the AADT derived from the 2005 counts by application of the appropriate seasonal and axle factors.

### 2.4 Existing Year (2005) Intersection Traffic Volumes

Design hour turning movement volumes were determined by the initial use of the TURNS-5 software, which uses existing and design year AADTs, existing turning movement count data, and $K_{30}$ and $D_{30}$ factors to determine existing 2005 peak hour, turning movement volumes. The

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initial TURNS-5 output was then adjusted to provide balanced flows. This information is illustrated in the following figures:

- Figure 4 shows the year 2005 intersection AADTs and directional design hour volumes.
- Figure 5 shows the year 2005 DHV turning movements.
- Figure 6 shows the year 2005 lane configuration.


### 2.5 Existing Year (2005) Freeway Segment and Ramp Merge / Diverge LOS

The existing year (2005) freeway segment and ramp merge / diverge LOS analysis for I-75 was conducted using the estimated existing year (2005) design hour volumes, previously shown on Figure 4. The LOS analysis was conducted using the Highway Capacity Software Version 5.2 (HCS Plus). This LOS analysis indicates that I-75 currently operates at LOS C northbound and LOS B southbound through the study area. The merge and diverge analysis indicates that the LOS for various merge and diverge sections of I-75 associated with the two interchanges within the study area varies from LOS C to LOS D, as shown on Figure 7. Since each interchange is spaced over five miles apart, there are no weaving sections within the study area, nor will there be in the design year.

### 2.6 Existing Year (2005) Intersection LOS Analysis Summary

According to the Pasco County Comprehensive Plan, the existing and future (2020) LOS standard for CR 41 is LOS D. The Hernando County Comprehensive Plan sets the LOS standard for SR 50 as LOS C. Since I-75 is an SIS facility and the study area is designated as a transitioning area, a standard of LOS C is required. (ref: Florida's Quality / Level of Service Handbook, LOS Standards, Table 6-1) The unsignalized intersections at the CR 41 interchange currently both operate at LOS B. The signalized intersections at SR 50 both operate at LOS B also, as shown on Figure 8. These intersections in the existing analysis meet the LOS standard.




North of SR 52 to South of CR 476B


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### 2.7 Safety Considerations

Crash data for I-75 and SR 50 was collected for the five most recent years (1999 to 2003) from the FDOT. For CR 41, crash data from the Pasco County Traffic Operations Division was collected. Crash data was collected for 500 feet west of the western ramp terminal and 500 feet east of the eastern ramp terminal, a total distance of approximately 3,100 feet. Data collected from these sources include number and type of crashes, crash locations, number of fatalities and injuries and estimates of property damage and economic losses. It should be noted that only crashes which involve injuries, fatalities, or major property damage are included in the FDOT crash database.

As indicated in Table 3, the crash records for I-75 indicate that over the five years studied, 219 crashes occurred in Pasco County (average of 5.21 per year per mile), 332 crashes occurred in Hernando County ( 5.83 per year per mile), and 57 crashes occurred in Sumter County (11.4 per year per mile). There were 214 injuries and 3 fatalities in Pasco County, 384 injuries and 12 fatalities in Hernando County, and 44 injuries and 1 fatality in Sumter County. The average crash rate (crashes per million VMT) was slightly higher over the five-year period in Sumter County ( 0.56 ) than in Pasco County ( 0.35 ) or in Hernando County ( 0.40 ). The average crash rates are higher than the statewide average crash rate of 0.31 for rural interstates.

Economic losses were determined for every study area segment that was analyzed for safety considerations. According to figures from the FDOT Safety Office - Data Processing and Maintenance Manuals, June 2003, Property Damage Only crashes have an economic loss of $\$ 2,000$ each, an average of $\$ 108,000$ per injury, and $\$ 2,600,000$ for each fatality. Therefore using the historical crash statistics from Table 3, total economic losses due to crashes occurring from 1999 to 2003 on the study area sections of I-75 in Pasco County was calculated to be \$31,092,000; in Hernando County \$65,726,000; and in Sumter County \$7,394,000.

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## Crash History:

Table 3 presents an overview of the crash history of the study segment of I-75.

Table 3
Crash History Overview - I-75

|  | 1999 | 2000 | 2001 | 2002 | 2003 | Total | Average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I-75 Pasco County |  |  |  |  |  |  |  |
| Fatalities | 0 | 0 |  | 1 | 1 | 3 | 0.6 |
| Injuries | 44 | 39 | 44 | 49 | 38 | 214 | 42.8 |
| Property Damage Only | 17 | 9 | 26 | 17 | 21 | 90 | 18 |
| Total | 43 | 31 | 53 | 47 | 45 | 219 | 43.8 |
| AADT | 40500 | 35500 | 43500 | 39500 | 41500 | 200500 | 40100 |
| Distance | 8.44 | 8.44 | 8.44 | 8.44 | 8.44 | - | - |
| Crash Rate | 0.34 | 0.28 | 0.40 | 0.39 | 0.35 | 1.76 | 0.35 |
| I-75 Hernando County |  |  |  |  |  |  |  |
| Fatalities | 1 | 0 | 2 | 5 | 4 | 12 | 2.4 |
| Injuries | 113 | 70 | 63 | 65 | 73 | 384 | 76.8 |
| Property Damage Only | 34 | 17 | 21 | 32 | 23 | 127 | 25.4 |
| Total | 98 | 51 | 55 | 67 | 61 | 332 | 66.4 |
| AADT | 40500 | 35500 | 43500 | 39500 | 41500 | 200500 | 40100 |
| Distance | 11.48 | 11.48 | 11.48 | 11.48 | 11.48 | - | - |
| Crash Rate | 0.58 | 0.34 | 0.30 | 0.40 | 0.35 | 1.98 | 0.40 |
| I-75 Sumter County |  |  |  |  |  |  |  |
| Fatalities | 0 | 0 | 0 | 0 | 1 | 1 | 0.2 |
| Injuries | 11 | 7 | 4 | 11 | 11 | 44 | 8.8 |
| Property Damage Only | 3 | 2 | 7 | 3 | 6 | 21 | 4.2 |
| Total | 9 | 8 | 11 | 12 | 17 | 57 | 11.4 |
| AADT | 35500 | 29500 | 37000 | 38500 | 42000 | 182500 | 36500 |
| Distance | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | - | - |
| Crash Rate | 0.46 | 0.50 | 0.54 | 0.57 | 0.74 | 2.81 | 0.56 |
| Total Study Area |  |  |  |  |  |  |  |
| Fatalities | 1 | 0 | 3 | 6 | 6 | 16 | 3.2 |
| Injuries | 168 | 116 | 111 | 125 | 122 | 642 | 128.4 |
| Property Damage Only | 54 | 28 | 54 | 52 | 50 | 238 | 47.6 |
| Total | 150 | 90 | 119 | 126 | 123 | 608 | 121.6 |
| AADT | 38333 | 33500 | 41333 | 39167 | 41667 | 194500 | 38900 |
| Distance | 21.42 | 21.42 | 21.42 | 21.42 | 21.42 | - | - |
| Crash Rate | 0.49 | 0.34 | 0.37 | 0.41 | 0.38 | 1.99 | 0.40 |

Source: FDOT 1999-2003 FDOT District VII CAR (Crash Analysis Report) System

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Table 4 provides similar crash information for the cross roads, CR 41 and SR 50. Over the five years studied, 110 crashes occurred along SR 50 in the vicinity of the I-75 interchange in Hernando County (from 500' west of the interchange to $500^{\prime}$ east of the interchange) and 5 crashes occurred along CR 41 in the vicinity of the I- 75 interchange in Pasco County. There were 148 injuries and no fatalities along this section of SR 50 and 4 injuries and no fatalities along this section of CR 41. The average crash rate on SR 50 in the immediate area of the interchange with I-75 was $3.74 / \mathrm{MEV}$ (Million Entering Vehicles) compared to a statewide average of 0.642 crashes/MEV for suburban four-lane, two-way divided roadways. For the CR 41 interchange, the crash rate was 0.74 crashes/MEV compared to a statewide average of 0.242 crashes/MEV for rural two-lane, two-way undivided roadways.

Two notes of caution are provided in presenting these crash rates. First, the length of the SR 50 segment analyzed is 0.28 miles. This length is greater than the typical 0.1 mile maximum length used for spot analysis (based on Million Entering Vehicles or MEV), yet analysis as a segment (Million Vehicle Miles Travel or MVMT), which typically is a mile or greater, would have yielded a disproportionately high rate due to the short length involved. Second, in some cases, crash data for CR 41 appeared to duplicate some crashes showing in the I-75 data. Reconciliation of this was beyond the scope of this study; however, the data presented is believed to be an accurate interpretation of the information available and appears reasonable. Total economic losses due to crashes occurring from 1999 to 2003 at the SR 50 interchange was $\$ 16,052,000$ and at the CR 41 interchange was $\$ 438,000$.

## Table 4

Crash History - Cross Roads

|  | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | Total | Average |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underline{\text { SR 50 Hernando County }}$ |  |  |  |  |  |  |  |  |  |  |
| Fatalities | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |
| Injuries | 19 | 29 | 53 | 20 | 27 | 148 | 29.6 |  |  |  |
| Property Damage Only | 5 | 3 | 5 | 14 | 7 | 34 | 6.8 |  |  |  |
| Total | 13 | 17 | 31 | 28 | 21 | 110 | 22 |  |  |  |
| AADT | 15,600 | 15,900 | 16,200 | 16,800 | 16,000 | 80,500 | 16,100 |  |  |  |
| Distance | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | - | - |  |  |  |
| Crash Rate (per MEV) | 2.28 | 2.93 | 5.24 | 4.57 | 3.60 | - | 3.74 |  |  |  |
|  |  |  |  |  |  |  |  |  |  | $\underline{\text { CR 41 Pasco County }}$ |
| Fatalities | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |  |  |  |
| Injuries | 0 | 0 | 0 | 0 | 4 | 4 | 0.8 |  |  |  |
| Property Damage Only | 0 | 0 | 2 | 1 | 0 | 3 | 0.6 |  |  |  |
| Total | 0 | 0 | 2 | 1 | 2 | 5 | 1.0 |  |  |  |
| AADT | 3,600 | 3,650 | 3,700 | 3,750 | 3,800 | 18,500 | 3,700 |  |  |  |
| Distance | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | - | - |  |  |  |
| Crash Rate (per MEV) | 0.00 | 0.00 | 1.48 | 0.73 | 1.44 | - | 0.74 |  |  |  |

Source: FDOT 1999-2003 FDOT District VII CAR (Crash Analysis Report) System and Pasco County Transportation Office

## Crash Types:

Table 5 indicates the highest frequency crashes along I-75 in the study area are rear end, sideswipe, and overturned. The "Other" category represents 33 other less significant crash types. These crash statistics reflect that as I-75 becomes more congested, speed differential between drivers and driver inattention will become the greatest contributors to crashes. Also, many crashes are caused by moving vehicles colliding with stopped vehicles, which is due to traffic exceeding the roadway's capacity or other unplanned incidents that cause traffic to slow or stop. Capacity improvements along I-75 will likely help prevent at least some of these crashes.

Table 6 shows that rear end crashes are by far the most frequent crash type along SR 50 near the I-75 interchange followed by angle and left turn crashes. Angle crashes are the most frequent crash type along CR 41 in the study area. These types of crashes are common at rural intersections and closer inspection is required to determine exact causes.

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Table 5
Crash Types - I-75

| Type (data code) | 1999 | 2000 | 2001 | 2002 | 2003 | Total | Percent | Average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pasco County |  |  |  |  |  |  |  |  |
| Rear End (1) | 7 | 9 | 4 | 12 | 8 | 40 | 18.3\% | 8 |
| Head On (2) | 0 | 1 | 1 | 2 | 2 | 6 | 2.7\% | 1.2 |
| Angle (3) | 1 | 2 | 3 | 2 | 7 | 15 | 6.8\% | 3 |
| Left Turn (4) | 1 | 1 | 0 | 0 | 0 | 2 | 0.9\% | 0.4 |
| Right Turn (5) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0\% | 0 |
| Sideswipe (6) | 6 | 3 | 6 | 4 | 5 | 24 | 11.0\% | 4.8 |
| Hit Guardrail (18) | 4 | 0 | 7 | 0 | 0 | 11 | 5.0\% | 2.2 |
| Overturned (31) | 12 | 9 | 10 | 10 | 4 | 45 | 20.5\% | 9 |
| Other | 12 | 6 | 22 | 17 | 19 | 76 | 34.7\% | 15.2 |
| Totals | 43 | 31 | 53 | 47 | 45 | 219 |  | 43.8 |
| Hernando County |  |  |  |  |  |  |  |  |
| Rear End (1) | 20 | 10 | 11 | 14 | 6 | 61 | 18.4\% | 12.2 |
| Head On (2) | 0 | 0 | 0 | 1 | 0 | 1 | 0.3\% | 0.2 |
| Angle (3) | 4 | 7 | 2 | 1 | 5 | 19 | 5.7\% | 3.8 |
| Left Turn (4) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0\% | 0 |
| Right Turn (5) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0\% | 0 |
| Sideswipe (6) | 16 | 6 | 7 | 6 | 5 | 40 | 12.0\% | 8 |
| Hit Guardrail (18) | 8 | 4 | 4 | 5 | 11 | 32 | 9.6\% | 6.4 |
| Overturned (31) | 20 | 11 | 9 | 11 | 6 | 57 | 17.2\% | 11.4 |
| Other | 30 | 13 | 22 | 29 | 28 | 122 | 36.7\% | 24.4 |
| Totals | 98 | 51 | 55 | 67 | 61 | 332 |  | 66.4 |
| Sumter County |  |  |  |  |  |  |  |  |
| Rear End (1) | 2 | 1 | 1 | 4 | 2 | 10 | 17.5\% | 2.0 |
| Head On (2) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0\% | 0.0 |
| Angle (3) | 0 | 1 | 0 | 0 | 0 | 1 | 1.8\% | 0.2 |
| Left Turn (4) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0\% | 0 |
| Right Turn (5) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0\% | 0 |
| Sideswipe (6) | 1 | 1 | 1 | 0 | 1 | 4 | 7.0\% | 0.8 |
| Hit Guardrail (18) | 0 | 1 | 0 | 1 | 1 | 3 | 5.3\% | 0.6 |
| Overturned (31) | 2 | 1 | 2 | 3 | 3 | 11 | 19.3\% | 2.2 |
| Other | 4 | 3 | 7 | 4 | 10 | 28 | 49.1\% | 5.6 |
| Totals | 9 | 8 | 11 | 12 | 17 | 57 |  | 11.4 |
| Total 1-75 Study Area |  |  |  |  |  |  |  |  |
| Rear End (1) | 29 | 20 | 16 | 30 | 16 | 111 | 18.3\% | 22.2 |
| Head On (2) | 0 | 1 | 1 | 3 | 2 | 7 | 1.2\% | 1.4 |
| Angle (3) | 5 | 10 | 5 | 3 | 12 | 35 | 5.8\% | 7 |
| Left Turn (4) | 1 | 1 | 0 | 0 | 0 | 2 | 0.3\% | 0.4 |
| Right Turn (5) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0\% | 0 |
| Sideswipe (6) | 23 | 10 | 14 | 10 | 11 | 68 | 11.2\% | 13.6 |
| Hit Guardrail (18) | 12 | 5 | 11 | 6 | 12 | 46 | 7.6\% | 9.2 |
| Overturned (31) | 34 | 21 | 21 | 24 | 13 | 113 | 18.6\% | 22.6 |
| Other | 46 | 22 | 51 | 50 | 57 | 226 | 37.2\% | 45.2 |
| Totals | 150 | 90 | 119 | 126 | 123 | 608 |  | 121.6 |

Source: FDOT 1999-2003 FDOT District VII CAR (Crash Analysis Report) System

Table 6

## Crash Types - Cross Roads

| Type (data code) | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | Total | Average |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SR 50 - Hernando County |  |  |  |  |  |  |  |  |  |
| Rear End (1) | 5 | 6 | 15 | 9 | 11 | 46 | 9.2 |  |  |
| Head On (2) | 0 | 0 | 0 | 1 | 0 | 1 | 0.2 |  |  |
| Angle (3) | 3 | 5 | 5 | 3 | 3 | 19 | 3.8 |  |  |
| Left Turn (4) | 2 | 4 | 5 | 5 | 3 | 19 | 3.8 |  |  |
| Right Turn (5) | 0 | 1 | 0 | 0 | 0 | 1 | 0.2 |  |  |
| Sideswipe (6) | 1 | 0 | 1 | 2 | 1 | 5 | 1.0 |  |  |
| Hit Guardr'I (18) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
| Overturned (31) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |
| Other | 2 | 1 | 5 | 8 | 3 | 19 | 3.8 |  |  |
| Total | 13 | 17 | 31 | 28 | 21 | 110 | 22.0 |  |  |
|  |  |  |  |  |  |  |  |  | $\underline{\text { CR 41-Pasco County }}$ |
| Rear End (1) | 0 | 0 | 1 | 0 | 0 | 1 | 0.2 |  |  |
| Head On (2) | 0 | 0 | 0 | 0 | 1 | 1 | 0.2 |  |  |
| Angle (3) | 0 | 0 | 0 | 1 | 1 | 2 | 0.4 |  |  |
| Left Turn (4) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |  |  |
| Right Turn (5) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |  |  |
| Sideswipe (6) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |  |  |
| Hit Guardr'I (18) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |  |  |
| Overturned (31) | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |  |  |
| Other | 0 | 0 | 1 | 0 | 0 | 0 | 0.2 |  |  |
| Total | 0 | 0 | 2 | 1 | 2 | 5 | 1.0 |  |  |

Source: FDOT 1999-2003 FDOT District VII CAR (Crash Analysis Report) System and Pasco County Transportation Office

# TRAFFIC TECHNICAL MEMORANDUM I-75 (SR 93) PD\&E STUDY; PASCO, HERNANDO, AND SUMTER COUNTIES 

## 3 FUTURE CONDITIONS

The future year traffic conditions were developed and analyzed for the I-75 PD\&E study area. Using design year traffic projections provided by FDOT (see Appendix "C" for F. Bitar to M. Clasgens memo, 4/18/05), operational conditions for each alternative including the no-build alternative were analyzed. A summary of this information and analyses is presented below.

### 3.1 Planned Improvements

The current Cost Affordable Long Range Transportation Plan (LRTP), as developed by the Pasco County MPO, Hernando County MPO and the FDOT, was used as the future year base transportation network. This network included the various transportation improvements that could be implemented by the various jurisdictions and agencies over the next twenty years. These improvements are documented in the Long Range Transportation Plans (LRTP) produced by the Pasco County and Hernando County MPOs. The Hernando County LRTP includes widening SR 50 to six-lanes with frontage lanes from Lockhart Road to Kettering Road. This improvement was not considered in this study, however, because Hernando County did not have plans in place for frontage lanes on SR 50 between Kettering Road and Lockhart Road at the time of report preparation. There are no future improvements for CR 41 in the study area included in the Pasco County LRTP.

Despite both the Pasco and Hernando County Cost Affordable LRTPs listing I-75 as a 6-lane facility, the No-Build Analysis of this study assumed I-75 to be a four-lane, divided freeway. For the Build Analysis scenario, I-75 is analyzed with both six lane and eight lane cross sections, as both the Pasco and Hernando LRTPs include the widening of I-75 to six-lanes throughout the study area. Additional projects in the study limits that have been discussed by Hernando County officials are a new interchange on I-75 near Lockhart Road and a roadway connection between CR 41 to County Line Road in Masaryktown. Since both of these projects are not included in the current Hernando County LRTP, they were not considered in this study.

### 3.2 Interim Year and Design Year Traffic Projections

The year 2030 was selected as the design year for traffic analysis, since improvements are to operate at acceptable levels of service twenty (20) years from the assumed opening year of 2010. the FDOT provided the design year and interim year AADT volumes to be used in this study.

As previously stated, DHVs for mainline I-75 were developed from the AADTs using the I-75 $\mathrm{K}_{30}$ and $\mathrm{D}_{30}$ factors discussed earlier in the report. DHVs for the crossroads were based on the $\mathrm{K}_{30}$ and $\mathrm{D}_{30}$ factors of SR 50, which were provided on the 2005 FDOT Traffic Information CD. These factors were $K_{30}=9.61$ and $D_{30}=54.5$. These factors are slightly different than mainline I75, but are more representative of the nature of the crossroad traffic. Factors for CR 41 were not available; therefore, the factors for SR 50 were used as the patterns are believed to be similar on these two east-west facilities.

Figures 9, 10, and 11 present the opening year (2010), interim year (2020), and design year (2030) AADTs and DHVs, respectively.


North of SR 52 to South of CR 476B


North of SR 52 to South of CR 476B


North of SR 52 to South of CR 476B

### 3.3 Design Year (2030) No-Build Intersection LOS Analysis

Design hourly volumes (DHV) for I-75, SR 50, CR 41 and all freeway ramps were developed from provided AADTs, K-factors and D-factors. The resulting DHVs are provided in Figure 11. These design hourly volumes were then use to determine the intersection design hourly volumes, through the use of the TURNS-5 software and subsequent rebalancing. Figure 12 provides the design year (2030) intersection design hour volumes, while Figure 13 shows the design year (2030) lane configuration and the type of traffic control (signalized or unsignalized) for the NoBuild Alternative. These existing conditions were analyzed using Highway Capacity Software (HCS Plus). The results of these analyses indicate that all ramp terminal intersections with cross streets are expected to operate at LOS F under the No-Build conditions in the 2030 design year. These level of service results are shown on Figure 14.

For the ramp terminal / cross-street intersection analysis, the LOS standard for the cross streets was determined from the Comprehensive Plans of each county. At CR 41, the standard is LOS D and for the ramp terminals at SR 50 the standard is LOS C. A full signal warrant analysis should be performed at CR 41 during the design phase of this project. Since the unsignalized intersections at CR 41 are expected to operate at LOS F in the 2030 design year under the NoBuild conditions, the CR 41 intersections were considered to be signalized in the Build case.

The signalized intersections at the northbound and southbound off-ramp / on-ramp terminals at SR 50 are projected to operate at LOS F with the planned widening of SR 50 to a six-lane facility. Ramp terminal or more extensive improvements will be necessary to improve the LOS at these locations.


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No-Build Design Year (2030) Intersection Peak Hour DDHV

Figure 12


Nort of SR 52 to South of CR 476B


### 3.4 Design Year (2030) No-Build Freeway Segment LOS

The LOS analysis was conducted using HCS Plus. This analysis indicates that with a four lane cross section, traffic along I-75 will operate at LOS F for all three segments studied. These results are shown on Figure 15. Similar to the existing year analysis, the design year LOS standard for I-75 was set at LOS C. Therefore, traffic operations will not meet the LOS standard under design year (2030) conditions; widening of I-75 will be required to adequately handle future traffic demands.

### 3.5 Design Year (2030) No-Build Ramp Merge/Diverge LOS

The design year (2030) ramp merge / diverge LOS analysis for I-75 was conducted using the estimated design year (2030) design hour volumes shown in Figure 11. Based on this analysis, all ramp merge and diverge sections will operate at LOS F and thus will not meet the LOS standard under No-Build conditions. These results are shown with the freeway segment LOS results on Figure 15. These poor results are largely due to insufficient capacity on the mainline, particularly with respect to volumes in the right lane, more so than being a result of poorly functioning ramp merge or diverge sections.


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### 3.6 Build Freeway Segment and Ramp Merge / Diverge LOS

For the Build alternatives considered, analyses were done for the Opening Year (2010), Interim Year (2020) and Design Year (2030). These analyses are presented in this section for the I-75 mainline and ramp junctions. The following section presents the ramp termini analyses.

Since capacity of the mainline is the key factor in having I-75 meet LOS standards, two widening alternatives (6-lane and 8-lane) were analyzed in this TTM. As shown in Figures 16a and 16b, a 6-lane cross-section on I-75 will meet the LOS standard of C until 2020. By 2030, a 6-lane section will not suffice as shown in Figure 16c. This figure indicates that the northbound lanes will operate at LOS D or LOS E with a 6-lane section, and no worse than LOS C with an 8lane section.

With the 8-lane widening alternative, the I-75 NB off-ramp to SR 50 and the I-75 SB off-ramp to SR 50, will remain operating at substandard LOS. Various alternatives, including the implementation of auxiliary lanes, deceleration / acceleration lanes, widening of the ramps, were tried to improve these conditions to the LOS standard. The list below shows the minimum improvement required to have all I-75 ramp diverge sections to meet or better the LOS standard of C .

- I-75 northbound off-ramp to SR 50 - Widen the off-ramp to two lanes. Add a minimum 500 foot long right-side auxiliary lane that will become a drop lane into the northbound off-ramp. The right-most mainline of northbound I-75 will become a decision lane for northbound I-75 and the northbound off-ramp to SR 50.
- I-75 southbound off-ramp to SR 50 - Add a minimum 500 foot deceleration lane in advance of the gore area for this off-ramp.

With these improvements all freeway segment and ramp merge and diverge segments will operate at or better than the standard of LOS C for the design year of 2030.

The ramp junctions have also been examined. As shown in Figures 17a, 17b and 17c, a 6-lane section of I-75 will result in LOS D conditions at the northbound exit ramp of the CR 41
interchange by Year 2020. As shown in Figure 17c, an 8-lane section will result in conditions no worse than LOS C for all CR 41 ramp junctions by 2030.

Assuming that I-75 is widened to 6-lanes, ramp junctions at the SR 50 interchange will produce acceptable levels of service through Year 2020, as shown in Figures 18a and 18b. Figure 18c indicates that an I-75 6-lane section will result in LOS D for the southbound ramp junctions as well as the northbound on-ramp junction by Year 2030. An 8-lane section on I-75 will produce LOS C or better conditions for Year 20 for these junctions. The northbound off-ramp must be upgraded to a 2-lane off-ramp by Year 2020 to meet acceptable levels of service for either a 6lane or an 8-lane I-75, as shown in Figure 18c.








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2010 Build LOS SR 50 Ramp Junctions


## I-75 PD\&E Study

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2020 Build LOS SR 50 Ramp Junctions

Figure 18b


## I-75 PD\&E Study <br> Traffic Technical Memorandum

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## 2030 Build LOS SR 50 Ramp Junctions

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### 3.7 Build Intersections LOS Analysis

## CR 41

Since operations at interchange ramps can have a direct influence on mainline traffic, ensuring that conditions meet LOS standards is very important. To improve the substandard conditions at ramp terminals on CR 41 and SR 50, a number of improvement alternatives were analyzed. One of the main issues at the CR 41 (Blanton Road) interchange is that the present unsignalized traffic control at both ramp terminals will not adequately handle the much higher turning movements under design year conditions. For purposes of this analysis, both ramp termini are assumed to be signalized in the opening year.

Presently, the northbound off ramp to CR 41 is approximately 620 feet long from the gore point to the stop bar at the ramp terminal. Future volumes will likely produce queues that exceed the storage capacity of the current ramp design. Also, the future widening of I-75 will further shorten this off-ramp length and thus reduce the storage capacity even more. To address storage deficiencies that will exist on the northbound off-ramp to CR 41, this ramp must either be reconstructed to provide more queue storage or be replaced by a northbound off-ramp that is located in the southeast quadrant of the interchange, thus creating a partial diamond interchange at CR 41. These two alternatives were examined in the build scenarios of this study.

Unlike the northbound off-ramp, the southbound off-ramp at CR 41 is expected to meet or exceed the design year storage demands with its current configuration. The southbound off-ramp is longer than the northbound off-ramp (approximately 780 feet long). Also, the traffic volumes on this ramp are substantially less than those of the northbound ramp. For these reasons, the southbound off-ramp at CR 41 is long enough to meet design year traffic demands and thus can be retained; however mainline widening will necessitate the reconstruction of this ramp, retaining the current cloverleaf concept.

Opening, Interim and Design Year volumes are shown on Figures 19a, 19b and 19c respectively while lane configurations for the two Build alternatives are shown in Figure 20. Figure 21 shows the Levels of Service for the three years analyzed for both Build alternatives.






## SR 50

The ramp terminals, in their existing condition, will both operate at LOS F under design year traffic demands. To improve operating conditions, a total of five alternatives were developed and evaluated; however not all alternatives were found to provide acceptable operations. Although the focus of operations is on mainline I-75, it was strongly desired to also provide acceptable operations on SR 50, an SIS route, within the interchange area. Early on, it was decided that this study would not encompass a complete evaluation for SR 50 outside of the interchange area, as it would be outside the scope of this project. In addition, there are a large number of unknowns regarding future development. Numerous discussions occurred between the study consultant, FDOT District staff, County officials and developers representatives to gain a better understanding of future conditions.

The five alternatives evaluated to improve interchange operations include:

- Implementation of lane improvements to the existing diamond interchange,
- Conversion of the existing diamond interchange to a single point urban interchange,
- Addition of a loop ramp to serve westbound to southbound traffic,
- A westbound-to-southbound flyover ramp and
- A northbound-to-westbound flyover ramp.

Based on the initial demand volumes, approach and turning movement volumes were generated for each of the alternatives. These volumes are shown on Figures 22a-1 through 22c-2. Lane configurations associated with these alternatives are shown on Figures 23a and 23b.

Figure 24a indicates that neither lane improvements nor the single point urban interchange will improve conditions enough to meet the standard of LOS C for the design year. The westbound to southbound loop ramp alternative, will produce better results at the two ramp terminal intersections; however the western intersection will operate at LOS D, while the eastern intersection will operate at LOS E, as seen in Figure 24a. Both results are below the LOS standard of C set for SR 50. This alternative consists of the following improvements to the interchange:

- A westbound to southbound loop ramp located in the northwest quadrant of the interchange,
- A right-most channelized westbound lane that feeds this loop ramp and that begins at some point east of the northbound ramp intersection (this allows westbound traffic to proceed and not conflict with northbound to westbound traffic turning left from the I-75 off-ramp),
- The addition of an eastbound left turn lane for the eastern intersection, resulting in dual eastbound left turn lanes,
- The addition of southbound left turn and right turn lanes, resulting in dual southbound right and left turn lanes,
- The addition of two northbound left turn lanes, resulting in three northbound left turn lanes, and
- Widening SR 50 east of I-75 to some point east of the interchange to allow the northbound right turn lane to be a free flowing movement. This is the preferred treatment and assumes the relocation of the signal at Bronson Boulevard. If this signal cannot be relocated, the ramp terminal should be modified to a dual right-turn operation under signal control; however, this introduces ramp storage issues which would not exist under the preferred treatment.

The westbound to southbound flyover alternative will produce results at the two ramp terminal intersections that are similar to the results of the westbound to southbound loop ramp alternative. This alternative also results in western and eastern intersections which will operate at LOS D and LOS E, respectively, as seen in Figure 24b. Again, both intersections will operate at levels below the LOS standard of SR 50. The westbound to southbound flyover alternative consists of the following improvements to the interchange:

- A westbound to southbound flyover that begins in the northwest quadrant of the interchange,
- The addition of an eastbound left turn lane at the eastern intersection, resulting in dual eastbound left turn lanes,
- The addition of a southbound right turn lane, resulting in two southbound right turn lanes,


## TRAFFIC TECHNICAL MEMORANDUM I-75 (SR 93) PD\&E STUDY; PASCO, HERNANDO, AND SUMTER COUNTIES

- The addition of two left turn lanes for both the northbound and southbound left turn movements, resulting in three left turn lanes, and
- Widening SR 50 east of I-75 to some point east of the interchange to allow the northbound right turn lane to be allowed a free flowing movement.

The northbound to westbound flyover alternative will produce results at the two ramp terminal intersections that are equal to or better than all other alternatives. In the design year, the western intersection will operate at LOS D, while the eastern intersection will operate at LOS C, as seen in Figure 24b. Although the eastern intersection will meet the standards set for SR 50, the western intersection will operate below the LOS standard of C. The northbound to westbound flyover alternative consists of the following improvements to the interchange:

- A northbound to westbound flyover that begins in the southeast quadrant of the interchange, originating from the northbound off-ramp,
- The addition of an eastbound left turn lane at the eastern intersection, resulting in dual eastbound left turn lanes,
- The addition of a southbound right turn lane, resulting in two southbound right turn lanes,
- The addition of two left turn lanes for southbound left turn movements, resulting in three left turn lanes, and
- Widening SR 50 east of I-75 to some point east of the interchange to allow the northbound right turn lane to be allowed a free flowing movement.

Although these improvements do not allow the SR 50 interchange to operate at LOS C, the interchange improvements necessary to allow the interchange to operate at the LOS C standard requires a fully directional interchange with flyovers for every left turn movement. An improvement of this magnitude was not considered feasible, especially considering that other nearby intersections will likely operate at worse than LOS C and will act to meter traffic approaching the interchange. Thus, it is recommended that the appropriate improvements be implemented and a waiver of the LOS standard for the ramp termini be granted, as this situation is similar to that of a constrained roadway.

The recommended improvements at the ramp terminals of the CR 41 and SR 50 interchanges are shown on Figure 25 and their resulting LOS is shown on Figure 26.




## WB - SB Flyover



## ---------------------

## NB - WB Flyover



I-75 PD\&E Study
Traffic Technical Memorandum
North of SR 52 to South of CR 476B
(Pasco, Hernando, and Sumter Counties)
WPI No. 411014-1 FAP No. 0751-120I

2020 Volumes
SR 50 Intersection


## WB - SB Flyover



## ---------------------

## NB - WB Flyover



I-75 PD\&E Study
Traffic Technical Memorandum
North of SR 52 to South of CR 476B
(Pasco, Hernando, and Sumter Counties)
WPI No. 411014-1 FAP No. 0751-120I

2030 Volumes
SR 50 Intersection
Figure 22c-2





TRAFFIC TECHNICAL MEMORANDUM I-75 (SR 93) PD\&E STUDY; PASCO, HERNANDO, AND SUMTER COUNTIES

Table 7 below summarizes the intersection Level of Service results of the preceding graphics.

Table 7

## Level of Service Results for Ramp Termini

| No-Build Alternatives |  |  |  |  |  |  |
| :--- | :--- | :--- | :---: | :---: | :---: | :---: |
| Location | $\mathbf{2 0 1 0}$ |  |  |  |  |  |

Build Alternatives

| Location | 2010 |  | 2020 |  | 2030 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Delay <br> $(\mathbf{s})$ | LOS | Delay <br> $(\mathbf{s})$ | LOS | Delay <br> (s) | LOS |
| I-75 NB Ramps/CR 41 |  |  |  |  |  |  |
| NB Partial Clover (WBT=2, SBLT=2) | 11.3 | B | 13.6 | B | 24.2 | C |
| NB Partia/ Clover (WBT=2, SBLT=1) | 18.3 | B | 24.3 | C | 57.2 | E |
| NB Partial Clover $(W B T=1, S B R T=F F)$ | 28.8 | C | 43.7 | D | 135.8 | F |
| NB Diamond | 13.5 | B | 16.2 | B | 39.4 | D |

I-75 SB Ramps/CR 41

| $S B$ Partial Clover | 6.5 | A | 8.7 | A | 14.1 | B |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |

I-75 NB Ramps/SR 50

| Lane Improvements | 27.1 | C | 51.2 | D | 143.7 | F |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SPUI | 34.7 | C | 46.2 | D | 104.8 | F |
| WB to SB Loop Ramp (WB Thru) | 19.6 | B | 27.1 | C | 67.2 | E |
| WB to SB Loop Ramp (WB-SB On/y) | 20.7 | C | 28.7 | C | 70.7 | E |
| WB to SB F/y-Over | 22.7 | C | 32.2 | C | 77.6 | E |
| NB to WB F/y-Over | 10.1 | B | 13.2 | B | 27.7 | C |

I-75 SB Ramps/SR 50

| Lane Improvements | 26.6 | C | 38.3 | D | 79.9 | E |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Loop Ramp | 13.8 | B | 17.5 | B | 36.8 | D |
| WB to SB Fly-Over | 17.6 | B | 22.3 | C | 51.2 | D |
| NB to WB Fly-Over | 25.8 | C | 28.2 | C | 36.0 | D |

### 3.8 Determination of Storage Lengths

The required storage lengths for turn lanes recommended at the ramp terminals at CR 41 and $\operatorname{SR}$ 50 were estimated using the red-time formula, found in 7.4.7 Intersection Design - Lane Configuration of the FDOT Plans Preparation Manual. Since it is possible that through-lane queuing can sometimes block access to right and left turn lanes, turn lane queuing requirements were also reviewed against anticipated queues in the through lanes. Table 8 compares the calculated queue lengths from the red time formula to the existing storage lane length. Shaded cells indicate design queues that will exceed the existing storage length and thus in designing these intersections, improvements to these lanes is required.

Table 8
Recommended Alternative (2030) Storage Lengths

| Intersection | Control | Turn Lane | Number of Lanes | Existing <br> Storage | Queue Length |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SR 50 @ I-75 NB Ramps | Signal | Northbound Left | 3 | 500 | $207 \times$ |
|  |  | Northbound Right | 2 | $500 \times$ | $840^{\prime}$ |
|  |  | Eastbound Left | 2 | $300 \times$ | 645 |
|  |  | Eastbound Thru | 3 | $300{ }^{\prime}$ | 1436' |
|  |  | Westbound Thru | 3 | -- | 1802' |
|  |  | Westbound Right | 1 | -- | 1144' |
| SR 50 @ I-75 SB Ramps | Signal | Southbound Left | 3 | 400 ' | 383' |
|  |  | Southbound Right | 2 | $40{ }^{\prime}$ | 385' |
|  |  | Eastbound Thru | 3 | -- | 1483' |
|  |  | Eastbound Right | 1 | -- | 1139 ' |
|  |  | Westbound Left | 2 | 300 | $52{ }^{\prime}$ |
|  |  | Westbound Thru | 3 | $30{ }^{\prime}$ | 1453' |
| CR 41 @ I-75 NB Ramps | Signal | Northbound Left | 2 | -- | 595 |
|  |  | Northbound Right | 1 | -- | 910 |
|  |  | Eastbound Left | 1 | 250 ' | 727 |
|  |  | Eastbound Thru | 1 | 1,900' | 405 ' |
|  |  | Westbound Thru | 2 | -- | 595 |
|  |  | Westbound Right | 1 | 200' | 190' |
| CR 41 @ I-75 SB Ramps | Signal | Northbound Left | 1 | 575' | $387 \times$ |
|  |  | Northbound Right | 1 | 575 | $330^{\prime}$ |
|  |  | Eastbound Thru | 2 | -- | $404{ }^{\prime}$ |
|  |  | Eastbound Right | 1 | 375 | 800 |
|  |  | Westbound Left | 1 | 250 ' | 850 |
|  |  | Westbound Thru | 2 | 1,900' | 765 ' |

# TRAFFIC TECHNICAL MEMORANDUM I - 75 (SR 93) PD\&E STUDY; PASCO, HERNANDO, AND SUMTER COUNTIES 

## 4 SUMMARY AND CONCLUSIONS

Existing (2005) and design year (2030) traffic analyses were conducted as part of the I-75 PD\&E Study to document the existing levels of service in the corridor as well as the anticipated future levels of service in the corridor. Results of the existing condition LOS analyses indicate that the existing I-75 study area and interchanges at CR 41 and SR 50 operate at or better than the LOS standard for SIS facilities in transitioning areas, with the exception of the northbound I-75 offramp to SR 50, which operates at LOS D.

Design year (2030) traffic forecasts were developed by FDOT personnel using the TBRPM Version 5.1. The No-Build roadway network was based on the design year (2025) Cost Affordable plans of the Hernando County and Pasco County LRTPs, which includes the widening of SR 50 to six lanes within the study area.

The design year (2030) - build alternative key improvements are the widening of I-75 to eightlanes throughout the study area, addition of auxiliary lanes, and ramp improvements. With these improvements, the results of the Build alternative analyses indicate that all segments of I-75 will operate at or better than the LOS standard of C , which is required for SIS roadways in transitioning areas.

Ramp terminals at the CR 41 and SR 50 interchanges will also require improvement. At the CR 41 interchange, it is recommended that the northbound loop off-ramp presently located in the northeast quadrant be replaced with a slip ramp in the southeast quadrant. In addition, both ramp terminal intersections with CR 41 will require signalization. At the SR 50 interchange, it is recommended a flyover ramp serving northbound I-75 to westbound SR 50 traffic be constructed. In addition, widening SR 50 east of the interchange to allow the northbound right turn movement to be free flowing and other lane improvements such as multiple turn lanes on the northbound and southbound off-ramps and on-ramps will be necessary. With these improvements, the results of the Build alternative analyses indicate that the ramp terminals at both interchanges will operate at or better than the LOS standard of D, which is the standard set
by both Pasco and Hernando counties for their respective roadways; but not the LOS standard of C required since SR 50 west of I-75 is an SIS facility.

Figure 25 shows the recommended Build lane configurations with the resulting Levels of Service shown on Fig. 26.


## APPENDIX 'A'

MAINLINE AADT TRAFFIC COUNT SUMMARIES

1．75 PD\＆E Study－Pasco，Hernando，Sumter Counties 24－hour Machine Count Data Times

|  | Count Location 1－1－75 between SR 52 and CR 41 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | Northbound |  |  |  |  | Southbound |  |  |  |  |
|  | $\begin{aligned} & \text { Mon } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \end{aligned}$ | $\begin{aligned} & \text { Wed } \\ & (3 / 16) \end{aligned}$ | $\begin{aligned} & \text { Thurs } \\ & \text { (3/17) } \end{aligned}$ | $\begin{gathered} \mathrm{Fr} \\ (3 / 18) \end{gathered}$ | $\begin{aligned} & \text { Mon } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \end{aligned}$ | $\begin{aligned} & \text { Wed } \\ & (3 / 16) \end{aligned}$ | $\begin{aligned} & \text { Thurs } \\ & (3 / 17) \end{aligned}$ | $\begin{aligned} & \text { Fri } \\ & (3 / 18) \end{aligned}$ |
| 12：00 AM |  |  |  |  |  |  |  | \％ |  |  |
| 1：00 AM |  |  |  |  |  |  |  | 3 | 548409 | － |
| 2：00 AM |  |  | Promax |  |  |  |  | 5 |  |  |
| 3：00 AM |  |  |  |  | 50993 |  |  |  |  |  |
| 4：00 AM |  |  |  |  |  |  |  | 59796委 |  | 4xam复 |
| 5：00 AM |  |  |  |  | \％（2ask |  |  | 5404960 |  |  |
| 6：00 AM |  |  |  |  |  |  |  |  |  | S ${ }^{4}$ |
| 7：00 AM |  |  |  |  |  |  |  | 5 |  |  |
| 8：00 AM |  |  |  |  |  |  |  | \％ | 4688気 |  |
| 9：00 AM |  |  |  |  | \％tamer |  |  | Wxay |  |  |
| 10：00 AM |  | 23839 |  |  | 4 4 |  |  | \％ |  |  |
| 11：00 AM |  |  |  | 273298： |  |  |  | Whax |  |  |
| 12：00 PM |  |  | Sexar |  | 人 |  |  |  |  | 54894 |
| 1：00 PM |  | \％ex |  | \％egrit | Wexas |  |  |  | － $\mathrm{c}_{\text {chan }}$ |  |
| 2：00 PM |  | 5xam |  | 约 |  |  |  |  |  |  |
| 3：00 PM |  | 趐 |  | 20496 |  | 2476ag |  |  |  |  |
| 4：00 PM | 3 ${ }^{2}$ | \％ 2 | \％－159 | \％ |  | 5－4583 |  |  |  |  |
| 5：00 PM |  | 4\％ | －2x | \％ |  | Watas | － |  | －${ }^{\text {a }}$ |  |
| 6：00 PM |  | 的㳔 | － |  |  |  | 柽： | 2ax |  |  |
| 7：00 PM | 2EM | T |  |  |  |  | ＋7x | 300wd | 5－7 |  |
| 8：00 PM | 5\％ | 23， |  |  |  |  |  |  |  |  |
| 9：00 PM |  |  |  | （85cam |  |  |  |  | 4xaske |  |
| 10：00 PM |  |  |  |  |  |  |  | 登这5 | 84898983 |  |
| 11：00 PM |  |  |  | 368094 |  |  |  | 5 |  |  |

## Northbound

1．Tuesday（3／15）－10：00 AM to Wednesday（3／16）－10：00 AM
2．Thursday（3／17）－11：00 AM to Friday（3／18）－11：00 AM
Southbound

| 1．Tuesday（3／15）－10：00 AM to Wednesday（3／16）－10：00 AM | AADT $=$ | 32596 | 0.95 | 30966 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 2．Wednesday（3／16）－10：00 AM to Thursday（3／17）－10：00 AM | AADT $=$ | 27285 | 0.95 | 25921 |
| 3．Thursday（3／17）－10：00 AM to Friday $(3 / 18)-10: 00 \mathrm{AM}$ | AADT $=$ | 27506 | 0.95 | 26131 |

1－75 PD\＆E Study－Pasco，Hernando，Sumter Counties 24－hour Machine Count Data Times

|  | Count Location 4－1－75＠CR 41 bridge |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Northbound |  |  |  |  | Southbound |  |  |  |  |
| Time | $\begin{aligned} & \text { Mon } \\ & (3 / 14) \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Tues } \\ (3 / 15) \\ \hline \end{array}$ | $\begin{aligned} & \text { Wed } \\ & (3 / 16) \end{aligned}$ | $\begin{aligned} & \text { Thurs } \\ & (3 / 17) \end{aligned}$ | $\begin{gathered} \mathrm{Fri} \\ (3 / 18) \end{gathered}$ | $\begin{aligned} & \text { Won } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \end{aligned}$ | $\begin{aligned} & \text { Wed } \\ & (3 / 16) \end{aligned}$ | $\begin{aligned} & \text { Thurs } \\ & \text { (3/17) } \end{aligned}$ | $\begin{gathered} \text { Fri } \\ (3 / 18) \end{gathered}$ |
| 12：00 AM |  |  | ¢5909 |  |  |  |  |  |  |  |
| 1：00 AM |  |  |  |  |  |  |  |  | 4 453 |  |
| 2：00 AM |  |  | \％ |  |  |  | 1382 | 部3743） |  |  |
| 3：00 AM |  |  |  |  |  |  |  | H5002近 |  | 64539 |
| 4：00 AM |  |  |  | 紜21939 |  |  |  | 13593复 |  |  |
| 5：00 AM |  |  |  |  |  |  |  |  | 6ricen |  |
| 6：00 AM |  |  |  |  |  |  |  |  |  |  |
| 7：00 AM |  |  |  | 3哭连39复 |  |  |  |  |  |  |
| 8：00 AM |  |  |  |  |  |  |  |  |  |  |
| 9：00 AM |  |  | 9－2x |  |  |  |  |  |  | ，${ }^{\text {cheng }}$ |
| 10：00 AM |  |  |  | 2 26388 |  |  |  | 516464 | S 8 chem |  |
| 11：00 AM |  |  | Sbexpla |  |  | 知t835 |  |  |  |  |
| 12：00 PM |  |  |  |  |  |  |  |  |  | \％Mage |
| 1：00 PM | 2z | Wextim | 8 | －29839 |  |  |  |  |  | －${ }^{\text {a }}$ |
| 2：00 PM | 320 |  |  | \％ |  | 5－2in | Whathe |  |  |  |
| 3：00 PM |  |  |  |  |  |  |  | Wher |  |  |
| 4：00 PM |  | 2－2， |  |  |  |  | 4 W | Watay |  |  |
| 5：00 PM | 5 \％ | 5x |  |  |  |  | Hins | － |  |  |
| 6：00 PM |  | \％ |  |  |  |  | 59xat | UTCUE |  |  |
| 7：00 PM | \％atemat |  | 紶发 |  |  |  |  | 1－59x |  |  |
| 8：00 PM | TS | － | 8589 |  |  | 68089\％ |  |  | 94＊9984 |  |
| 9：00 PM | atio | 2extic |  |  |  | 972m9 |  |  |  |  |
| 10：00 PM |  |  |  |  |  | 㲛65049 |  |  | 1553878 |  |
| 11：00 PM | 3mek |  |  |  |  | \％ 563 za |  |  | 623 658 |  |

SB

| Sum | 21451 | 19843 | 30928 | 17539 | 0 | 17586 | 26232 | 26047 | 26818 | 16921 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## Northbound

| 1．Tuesday（3／15）－11：00 AM to Wednesday（3／16）－11：00 AM | AADT $=31089$ | 0.95 | 29535 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 2．Wednesday（3／16）－11：00 AM to Thursday（3／17）－11：00 AM | AADT $=29168$ | 0.95 | 27710 |  |
|  |  |  |  |  |
| Southbound |  |  |  |  |
| 1．Tuesday（3／15）－12：00 AM to Wednesday（3／16）－12：00 AM | AADT $=$ | 26232 | 0.95 | 24920 |
| 2．Wednesday（3／16）－12：00 AM to Thursday $(3 / 17)-12: 00 \mathrm{AM}$ | AADT $=$ | 26047 | 0.95 | 24745 |
| 3．Thursday（3／17）－12：00 AM to Friday（3／18）－12：00 AM | AADT $=$ | 26818 | 0.95 | 25477 |

1－75 PD\＆E Study－Pasco．Hernando，Sumter Counties 24－hour Machine Count Data Times

|  | Count Location 5－1－75 between CR 41 and SR 50 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Northbound |  |  |  |  | Southbound |  |  |  |  |
| Time | $\begin{aligned} & \text { Mon } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \end{aligned}$ | $\begin{aligned} & \text { Wed } \\ & (3 / 16) \end{aligned}$ | Thurs $(3 / 17)$ | $\begin{gathered} \mathrm{Fri} \\ (3 / 18) \end{gathered}$ | $\begin{aligned} & \text { Mon } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \end{aligned}$ | $\begin{aligned} & \text { Wed } \\ & (3 / 16) \end{aligned}$ | $\begin{aligned} & \text { Thurs } \\ & (3 / 17) \end{aligned}$ | $\begin{gathered} \text { Fri } \\ (3 / 18) \end{gathered}$ |
| 12：00 AM |  |  |  |  |  |  |  |  |  | 5i5460 |
| 1：00 AM |  |  | \％ | Mracke | 20， |  |  |  | （35489 |  |
| 2：00 AM |  |  |  |  |  |  |  | 279958 | \％ 207 |  |
| 3：00 AM |  |  |  | $1{ }^{4}$ |  |  |  |  |  |  |
| 4：00 AM |  |  |  |  |  |  |  | 5－305x |  | Wheicis |
| 5：00 AM |  |  |  |  |  |  |  | 854883010 |  | － 51438 |
| 6：00 AM |  |  |  |  | 20 |  |  |  |  |  |
| 7：00 AM |  |  |  |  |  |  |  |  |  |  |
| 8：00 AM |  |  |  | \％ |  |  |  |  |  |  |
| 9：00 AM |  |  | － |  |  |  |  | Whast |  |  |
| 10：00 AM |  |  | \％ 5 |  | 达\％ |  |  | \％ 5636 |  |  |
| 11：00 AM |  |  | 82xat |  | 295以等 |  |  |  |  |  |
| 12：00 PM |  | － |  | ＋ |  |  |  |  |  |  |
| 1：00 PM |  |  |  | －2matat |  |  |  | \％${ }^{\text {cosen }}$ |  | \％ |
| 2：00 PM |  | 等域为 | ， |  |  |  |  |  |  |  |
| 3：00 PM |  | Hfor | Sher | 4， |  |  |  |  |  |  |
| 4：00 PM | Fexter | 等號 | ， | \％ |  |  | 64ing | 25ata |  |  |
| 5：00 PM |  |  | ． | Crime |  |  | 5ater |  |  |  |
| 6：00 PM |  |  | Stic |  |  |  |  | － | \％ $2 \times 8$ |  |
| 7：00 PM | 維建 |  | 3－7 |  |  |  |  |  |  |  |
| 8：00 PM |  | Cat | ＋ |  |  |  |  |  |  |  |
| 9：00 PM |  | － | H20 |  |  |  |  | 6xprat |  |  |
| 10：00 PM |  | 33x820 | 3 |  |  |  | 76645 |  |  |  |
| 11：00 PM |  |  |  |  |  |  | Ex53632 |  |  |  |

NB
SB
$-21.06 \%-12.33 \%$
$-2.93 \%$ \＃DIVIO！
$\begin{array}{llllllllllll}\text { Sum } & 15104 & 18748 & 30302 & 31974 & 21495 & 0 & 15699 & 25127 & 24457 & 17384\end{array}$

## Northbound

| 1．Tuesday（3／15）－11：00 AM to Wednesday（3／16）－11：00 AM | $A A D T=$ | 29971 | 0.95 | 28472 |
| :---: | :---: | :---: | :---: | :---: |
| 2．Wednesday（3／16）－11：00 AM to Thursday（3／17）－11：00 AM | AADT $=$ | 30405 | 0.95 | 28885 |
| 2．Thursday（3／17）－11：00 AM to Friday（3／18）－11：00 AM | AADT $=$ | 34826 | 0.95 | 33085 |
| Southbound |  |  |  |  |
| 1．Tuesday（3／15）－11：00 AM to Wednesday（3／16）－11：00 AM | AADT $=$ | 25730 | 0.95 | 24444 |
| 2．Wednesday（3／16）－9：00 AM to Thursday（3／17）－9：00 AM | AADT $=$ | 25721 | 0.95 | 24435 |
| 3．Thursday（3／17）－11：00 AM to Friday（3／18）－11：00 AM | AADT $=$ | 28178 | 0.95 | 26769 |

1－75 PD\＆E Study－Pasco，Hernando，Sumter Counties 24－hour Machine Count Data Times

|  | Count Location 8－1－75 at SR 50 bridge |  |  |  |  |  |  |  |  |  | NB | SB |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Northbound |  |  |  |  | Southbound |  |  |  |  |  |  |
| Time | $\begin{aligned} & \text { Kon } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Wed } \\ & (3 / 16) \end{aligned}$ | $\begin{aligned} & \text { Thurs } \\ & (3 / 17) \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{Fri} \\ (3 / 18) \end{gathered}$ | $\begin{aligned} & \text { Mon } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \end{aligned}$ | $\begin{aligned} & \text { Wed } \\ & (3 / 16) \end{aligned}$ | $\begin{aligned} & \text { Thurs } \\ & (3 / 17) \end{aligned}$ | $\begin{aligned} & F r i \\ & (3 / 18) \end{aligned}$ |  |  |
| 12：00 AM |  |  |  |  | 3x $\mathrm{m}_{6}$ |  |  |  |  |  |  |  |
| 1：00 AM |  |  | 640953 |  | 96398复 |  |  |  |  |  |  |  |
| 2：00 AM |  |  |  |  |  |  | Fickex | 3timict |  |  |  |  |
| 3：00 AM |  |  |  |  |  |  |  |  |  | 緻动8888 |  |  |
| 4：00 AM |  |  |  |  |  |  |  |  |  | 468987 |  |  |
| 5：00 AM |  |  | Fiticy |  |  |  |  |  |  |  |  |  |
| 6：00 AM |  |  |  |  |  |  |  |  |  |  |  |  |
| 7：00 AM |  |  |  |  |  |  | \％ |  |  |  |  |  |
| 8：00 AM |  |  |  |  |  |  | 5 |  |  |  |  |  |
| 9：00 AM |  |  |  |  |  |  |  |  |  |  |  |  |
| 10：00 AM |  |  | 35 |  |  |  |  |  | 50104730 |  |  |  |
| 11：00 AM |  |  | Wefenem |  |  |  |  |  |  |  |  |  |
| 12：00 PM |  | 5470249 |  |  |  |  | \％ |  |  | 4825x | －20．41\％ | －2．34\％ |
| 1：00 PM |  | Etismat |  |  |  |  |  |  | \％mance |  |  |  |
| 2：00 PM |  |  |  | 8535993 |  |  | 20， |  |  |  |  |  |
| 3：00 PM |  | － | 3ncter |  |  |  | Wherex |  |  |  |  |  |
| 4：00 PM |  | 56， 5 | Stiste |  |  |  |  |  |  |  |  |  |
| 5：00 PM | 3，${ }^{\text {g }}$ |  |  |  |  |  |  |  |  |  |  |  |
| 6：00 PM： |  |  |  |  |  |  |  |  |  |  |  |  |
| 7：00 PM | Eisichat | － |  |  |  |  |  |  | E\％ |  |  |  |
| 8：00 PM |  | － |  |  |  |  | 8， |  |  |  |  |  |
| 9：00 PM |  | Werex |  |  |  |  |  |  |  |  |  |  |
| 10：00 PM |  | Hescors |  |  |  |  |  |  |  |  |  |  |
| 11：00 PM |  |  |  | 5699x |  | S谷569 |  |  | 推B638 |  | ．7．81\％ | －51．44\％ |
| Sum | 10792 | 13175 | 24036 | 18026 | 15792 | 9485 | 21351 | 10547 | 14854 | 12500 |  |  |
| Northbound |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．Wednesday（3／16）－12：00 AM to Thursday（3／17）－12：00 AM |  |  |  |  |  |  |  | AADT $=$ | 24036 | ． 0.95 | 22.834 |  |
| 2．Thursday（3／17）－10：00 AM to Friday（3／18）－10：00 AM |  |  |  |  |  |  |  | AADT $=$ | 2667 | 10.95 | 25337 |  |
| Southbound |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．Tuesday（3／15）－12：00 AM to Wednesday（3／16）－12：00 AM |  |  |  |  |  |  |  | AADT $=$ | 21351 | 10.95 | 20283 |  |
| 3．Thursday（3／17）－10：00 AM to Friday（3／18）－10：00 AM |  |  |  |  |  |  |  | AADT $=$ | 22626 | \％ 0.95 | 21495 |  |

1－75 PD\＆E Study－Pasco，Hernando，Sumter Counties 24－hour Machine Count Data Times

|  | Count Location 9－1－75 between SR 50 and Withlacoochee River |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | orthboun |  |  |  |  | authboun |  |  |
| Time | $\begin{aligned} & \text { Mon } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \end{aligned}$ | $\begin{aligned} & \text { Wed } \\ & (3 / 16) \end{aligned}$ | $\begin{aligned} & \text { Thurs } \\ & (3 / 17) \end{aligned}$ | $\begin{gathered} \mathrm{Fn} \\ (3 / 18) \end{gathered}$ | $\begin{gathered} \text { Mon } \\ (3 / 14) \end{gathered}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \end{aligned}$ | Wed （3／16） | $\begin{aligned} & \text { Thurs } \\ & (3 / 17) \end{aligned}$ | $\begin{aligned} & F \pi \\ & (3 / 18) \end{aligned}$ |
| 12：00 AM |  |  |  |  |  |  | 7444939 |  |  | 1359837 |
| 1：00 AM |  |  |  |  |  |  | 44420 | 823478 |  |  |
| 2：00 AM |  |  | \％asigien |  |  |  | 584429 |  |  |  |
| 3：00 AM |  |  |  |  |  |  |  |  |  |  |
| 4：00 AM |  |  | Emag |  |  |  |  |  |  |  |
| 5：00 AM |  |  |  |  |  |  | \％ | 5 510967 |  | \％ |
| 6：00 AM |  |  |  | Finctide |  |  |  |  |  | \％ |
| 7：00 AM |  |  |  |  |  |  | Hegesex |  |  |  |
| 8：00 AM |  |  |  | 416259 |  |  |  | 3620第 |  | 动6， |
| 9：00 AM |  |  | \％ |  |  |  |  | 5685 |  | atime |
| 10：00 AM |  |  | 58 |  |  |  |  | 鿉 6 6206 |  |  |
| 11：00 AM |  |  |  |  |  |  |  |  |  | － |
| 12：00 PM |  |  |  | 22298积 |  |  |  | 构5997 | 要衰4595 |  |
| 1：00 PM |  | 22alder | 5xatid |  |  |  |  |  |  |  |
| 2：00 PM |  | 4＊93： |  |  |  |  |  |  |  | － |
| 3：00 PM |  | 4983 | 29989 |  |  |  |  |  |  |  |
| 4：00 PM |  | ， |  |  |  | 垒46809 |  |  |  |  |
| 5：00 PM |  |  | 369\％ |  |  | 6atara |  |  |  |  |
| 6：00 PM |  |  |  |  |  | 1023积 |  |  |  |  |
| 7：00 PM |  |  | 2298超 |  |  |  |  |  |  |  |
| 8：00 PM |  | Pricht |  |  |  | 管 |  |  | 5ateget |  |
| $9: 00 \mathrm{PM}$ |  |  |  |  |  |  | （zaxix |  |  |  |
| 10：00 PM |  |  | －${ }^{\text {che }}$ |  |  | \％ 68585 | － |  |  |  |
| 11：00 PM |  |  |  |  |  |  |  |  |  |  |


| Sum | 14711 | 14851 | 30981 | 14051 | 0 | 11811 | 26446 | 14633 | 17496 | 18737 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## Northbound

1．Tuesday $(3 / 15)-1: 00$ PM to Wednesday $(3 / 16)-1: 00 \mathrm{PM}$
2．Wednesday $(3 / 16)-1: 00 \mathrm{PM}$ to Thursday $(3 / 17)-1.00 \mathrm{PM}$

## Southbound

1．Tuesday（3／15）－12：00 AM to Wednesday（3／16）－ 1200 AM
3．Thursday（3／17）－11：00 AM to Friday $\{3 / 18\}-11: 00$ AM
AADT $=31112 \quad 0.95$

| AADT | $=26446$ | 0.95 | 25124 |
| :--- | :--- | :--- | :--- |
| AADT | $=29754$ | 0.95 | 28266 |

## APPENDIX ' $B$ '

## CROSS STREET AADT TRAFFIC COUNT SUMMARIES \&

1－75 PD\＆E Study－Pasco，Hernando，Sumter Counties
24－hour Machine Count Data Times

|  | Count Location 2－CR 41 West of 1－75 interchange |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Eastbound |  |  |  |  | Westbound |  |  |  |  |
| Time | $\begin{aligned} & \text { Mon } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \end{aligned}$ | $\begin{aligned} & \text { Wed } \\ & (3 / 16) \end{aligned}$ | Thurs $(3 / 17)$ | $\begin{gathered} \mathrm{Fri} \\ (3 / 18) \end{gathered}$ | $\begin{aligned} & \text { Mon } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Twes } \\ & (3 / 15) \end{aligned}$ | $\begin{aligned} & \text { Wod } \\ & (3 / 16) \end{aligned}$ | $\begin{aligned} & \text { Thurs } \\ & \text { (3/17) } \end{aligned}$ | $\begin{gathered} \text { Fri } \\ (3 / 18) \\ \hline \end{gathered}$ |
| 12：00 AM |  |  |  |  |  |  |  |  |  |  |
| 1：00 AM |  |  |  |  |  |  |  | Wayky |  |  |
| 2：00 AM |  | Wextchate |  |  |  |  |  |  |  |  |
| 3：00 AM |  |  |  |  |  |  |  |  |  |  |
| 4：00 AM |  |  |  |  |  |  |  |  |  |  |
| 5：00 AM |  |  |  |  |  |  |  |  |  |  |
| 6：00 AM |  |  |  |  |  |  |  |  |  |  |
| 7：00 AM |  | Oferin |  |  |  |  |  |  |  |  |
| 8：00 AM |  |  |  |  |  |  |  |  |  |  |
| 9：00 AM |  |  |  |  |  |  |  |  |  |  |
| 10：00 AM |  |  |  |  |  |  |  |  |  |  |
| 11：00 AM |  |  |  |  |  |  |  |  |  |  |
| 12：00 PM |  |  |  |  |  |  |  |  |  |  |
| 1：00 PM |  |  |  | 要紋噱 |  |  |  |  |  |  |
| 2：00 PM |  |  |  |  |  |  | 5 ${ }^{5}$ |  |  |  |
| 3：00 PM |  |  |  |  |  |  | W30， |  |  |  |
| 4：00 PM |  |  |  |  |  |  |  |  |  |  |
| 5：00 PM |  |  |  | 3－468 |  |  |  |  |  |  |
| 6：00 PM |  |  |  | －\％ |  |  | E4tat |  |  |  |
| 7：00 PM |  | 5zaters |  |  |  |  |  | 納大\％等 |  |  |
| 8：00 PM |  |  |  |  |  |  |  |  | （6） |  |
| 9：00 PM |  |  |  |  |  |  |  |  |  |  |
| 10：00 PM |  | 57\％ |  |  |  |  | H69\％要 |  |  |  |
| 11：00 PM |  |  |  |  |  |  |  |  |  |  |


| Sum | 0 | 2575 | 2586 | 2414 | 0 | 0 | 2508 | 2554 | 2377 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## Eastbound

1．Tuesday（3／15）
2．Wednesday（3／16）
3．Thursday（3／17）
Average

## Westbound

| 1．Tuesday $(3 / 15)$ | AADT $=$ | 2508 | 0.95 | 0.89 | 2121 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 2．Wednesday $(3 / 16)$ | AADT $=$ | 2554 | 0.95 | 0.89 | 2159 |
| 3．Thursday $(3 / 17)$ | AADT $=$ | 2377 | 0.95 | 0.89 | 2010 |
| Average |  |  |  |  | 2097 |
| Total |  |  |  |  | 4231 |

1.75 PD\&E Study - Pasco, Hernando, Sumter Counties 24 -hour Machine Count Data Times


1-75 PD\&E Study - Pasco, Hernando, Sumter Counties 24-hour Machine Count Data Times


1．75 PD\＆E Study－Pasco，Hernando，Sumter Counties
24－hour Machine Count Data Times

|  | Count Location 7－SR 50 East of 1－75 Interchange |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Eastbound |  |  |  |  | Westbound |  |  |  |  |
| Time | $\begin{aligned} & \text { Mon } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \end{aligned}$ | $\begin{gathered} \text { Wed } \\ (3 / 16) \end{gathered}$ | Thurs $(3 / 17)$ | $\begin{gathered} \mathrm{Fri} \\ (3 / 18) \end{gathered}$ | $\begin{aligned} & \text { Mon } \\ & (3 / 14) \end{aligned}$ | $\begin{aligned} & \text { Tues } \\ & (3 / 15) \end{aligned}$ | $\begin{aligned} & \text { Wed } \\ & (3 / 16) \end{aligned}$ | $\begin{aligned} & \text { Thurs } \\ & (3 / 17) \end{aligned}$ | $\begin{gathered} \text { Fri } \\ (3 / 18) \end{gathered}$ |
| 12：00 AM |  |  |  | 5499］ |  |  |  |  |  |  |
| 1：00 AM |  |  |  |  |  |  |  |  |  |  |
| 2：00 AM |  |  |  | 6絞69\％ |  |  |  |  |  |  |
| 3：00 AM |  |  |  |  |  |  |  |  |  |  |
| 4：00 AM |  |  |  |  |  |  |  |  |  |  |
| 5：00 AM |  |  |  |  |  |  |  |  |  |  |
| 6：00 AM |  | \％${ }^{\text {cky }}$ |  |  |  |  |  |  | －629x |  |
| 7：00 AM |  | \％\％\％¢ | \％eptax |  |  |  |  |  |  |  |
| 8：00 AM |  |  |  |  |  |  |  |  |  |  |
| 9：00 AM |  |  |  |  |  |  |  |  |  |  |
| 10：00 AM |  |  |  | \％ |  |  |  |  |  |  |
| 11：00 AM |  |  |  | － |  |  |  | Extegix |  |  |
| 12：00 PM |  |  |  | Whathatix |  |  |  |  |  |  |
| 1：00 PM |  |  |  |  |  |  |  |  |  |  |
| 2：00 PM |  |  | Whaty | 程（4） |  |  |  |  |  |  |
| 3：00 PM |  |  |  |  |  |  | ，5x ${ }^{5}$ |  |  |  |
| 4：00 PM |  |  |  | 94tery |  |  |  |  |  |  |
| 5：00 PM |  | 6888菏 |  |  |  |  |  |  |  |  |
| 6：00 PM |  |  |  |  |  |  |  |  |  |  |
| 7：00 PM |  |  |  | Haydy |  |  |  |  |  |  |
| 8：00 PM |  | E－8， | \％ |  |  |  |  |  |  |  |
| 9：00 PM |  | 548，\％\％ | － |  |  |  | 5xick |  | ， |  |
| 10：00 PM |  |  | － |  |  |  |  |  | \％ |  |
| 11：00 PM｜ |  |  |  |  |  |  |  |  |  |  |


| Sum | 0 | 14648 | 14392 | 14419 | 0 | 0 | 14086 | 13914 | 13831 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## Eastbound

1．Tuesday（3／15）
2．Wednesday（3／16）
3．Thursday（3／17）
Average

## Westbound

| 1．Tuesday（3／15） | AAOT $=$ | 14086 | 0.95 | 0.89 | 11910 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 2．Wednesday $(3 / 16)$ | AADT $=$ | 13914 | 0.95 | 0.89 | 11764 |
| 3．Thursday $(3 / 17)$ | AADT $=$ | 13831 | 0.95 | 0.89 | 11694 |
| Average |  |  |  |  | 11789 |
|  |  |  |  |  | 24038 |

BAYSIDE ENGINEERING INC.

## PEDESTRIAN MOVEMENT SUMMARY

Section:
Milepost: Time Periods:



## BAYSIDE ENGINEERING INC.

BICYCLE MOVEMENT SUMMARY


Bayside Engineering, fnc.

## Counted by Ron

Board $\ddagger$ : 1320
Weather cool/rainy

1105 East Twiggs Street
Tampa, FL 33602

File Name : S81-75 Ramps@ CR 41 Site Code : 00000000 Start Date : 03/15/2005 Page No 1

Groups Printed- Passenger Vehicles

| Southbound |  |  |  |  | CR 41 <br> Westbound |  |  |  | SETनI OFF TMAMP Northbound |  |  |  | CR 41 <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan Time |  | Thru | Fing! | $\begin{aligned} & \text { RDp } \\ & \text { Tc:al\| } \end{aligned}$ | Len | Tha! | Riçn! | $\begin{aligned} & \mathrm{ADDO} \\ & \text { Yotal } \end{aligned}$ | Lett | Frru | Figrs | $\begin{aligned} & \text { RpQ: } \\ & \text { Tctai } \end{aligned}$ | Ler | Ther ! | fignt | $\begin{aligned} & \mathrm{ROF} \\ & \mathrm{Tclal}^{\prime} \end{aligned}$ | An Total |
| 73act | TO! | 0. | T01 |  | 10 | T0: | T1 |  | T | U1 | 10 |  | T] | 101 | 1.0 |  |  |
| 05.00 | 0 | 0 | 0 | 0 | 41 | 13 | 0 | 54 | 0 | 0 | 0 | 01 | 0 | 18 | 65 | 87 | 141 |
| 06.15 | 0 | 0 | 0 | 0 | 32 | 25 | 0 | 57 | 1 | 0 | 1 | 2 | 0 | 13 | 77 | 90 | 149 |
| 06:30 | 0 | 0 | 0 | 0 | 40 | 22 | 0 | 62 | 0 | 0 | 2 | 2 | 0 | 23 | 56 | 79 | 143 |
| 06:45 | 0 | 0 | 0 | 0 | 26 | 13 | 0 | 39 ! | 1 | 0 | 3 | 4 | 0 | 18 | 42 | 60 ! | 103 |
| Total | 0 | 0 | 0 | 01 | 139 | 73 | 0 | 212 | 2 | U | 6 | B] | 0 | 72 | 244 | 370 | 536 |


| 07.00 | 0 | 0 | 0 | 0 | 18 | 16 | 0 | 34 | , | 0 | 0 | , | 0 | 18 | 36 | 54 | 89 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $07 \cdot 15$ | 0 | 0 | 0 | 0 | 34 | 21 | 0 | 55 | 6 | 0 | 2 | 8 | 0 | 29 | 40 | 69 | 132 |
| 07.30 | 0 | 0 | 0 | 0 | 24 | 29 | 0 | 53 | 1 | 0 | 3 | 4 | 0 | 35 | 33 | 68 | 125 |
| 07:45 | 0 | 0 | 0 | 0 | 20 | 25 | 0 | 45 | 1 | 0 | 2 | 3 | 0 | 23 | 46 | 69 | 117 |
| Total | 0 | 0 | 0 | 0 | 96 | 91 | 0 | 187 | 5 | 0 | 7 | 16 | 0 | 105 | 155 | 260 | 463 |


| $08: 00$ | 0 | 0 | 0 | 0 | 16 | 25 | 0 | 41 ! | 2 | 0 | 2 | 4 | 0 | 25 | 31 | 561 | 101 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 08:15 | 0 | 0 | 0 | 0 | 17 | 22 | 0 | 39 | 1 | 0 | 5 | 6 | 0 | 17 | 25 | 42 | 87 |
| 08:30 | 0 | 0 | 0 | 0 | 8 | 20 | 0 | 28: | 1 | 0 | 2 | 3 | 0 | 23 | 26 | 491 | 80 |
| 08.45 | 0 | 0 | 0 | 0 | 20 | 22 | 0 | 42 | 0 | 0 | 1. | 1 | 0 | 19 | 36 | 55 | 98 |
| Tola | 0 | 0 | 0 | 0 | 61 | 89 | 0 | $750!$ | 4 | 0 | 10 | 14 | 0 | 84 | 178 | $202 \%$ | 366 |


| 16.00 | 0 | 0 | 0 | 0 | 13 | 49 | 0 | 62 | 2 | 0 | 5 | 7 ! | 0 | 16 | 11 | 27 | 96 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16:15 | 0 | 0 | 0 | 0 | 6 | 60 | 0 | 661 | 0 | 0 | 5 | 51 | 0 | 38 | 16 | 54 | 125 |
| 16:30 | 0 | 0 | 0 | 0 | 9 | 70 | 0 | 79 | 2 | 0 | 5 | 7 | 0 | 22 | 18 | 40 | 126 |
| 16.45 | 0 | 0 | 0 | 0 | 19 | 75 | 0 | 94 | 3 | 0 | 7 | $10^{1}$ | 0 | 33 | 15 | 48 : | 152 |
| Total | U | 0 | 0 | 0 | 47 | 254 | 0 | 301: | 7 | U | 22 | 29 | 0 | 105 | 6 | 769 | 499 |
| 1700 | 0 | 0 | 0 | 0: | 15 | 78 | 0 | 931 | 1 | 0 | 3 | $4!$ | 0 | 25 | 10 | 35 | 132 |
| 17/15 | 0 | 0 | 0 | 0 | 8 | 72 | 0 | 20 | 3 | 0 | 0 | 3 | 0 | 25 | 9 | 34 | 117 |
| 17:30 | 0 | 0 | 0 | 0 | 12 | 62 | 0 | 781 | 3 | 0 | 5 | 8 | 0 | 23 | 7 | 30 | 112 |
| 17.45 | 0 | 0 | 0 | 01 | 5 | 63 | 0 | 68 | 2 | 0 | 2 | 4 | 0 | 18 | 9 | 27 : | 99 |
| Total | 0 | U | 0 | 0 | 40 | 275 | U | 315 | प | O | 10 | इ] | U | 91 | 35 | 126: | पह0 |


| $18: 00$ | 0 | 0 | 0 | 0 | 10 | 56 | 0 | 66 | 1 | 0 | 5 | $6:$ | 0 | 21 | 4 |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $18: 15$ | 0 | 0 | 0 | 0 | 13 | 49 | 0 | 62 | 2 | 0 | 3 | 51 | 9 | 16 | 13 |
| $18: 30$ | 0 | 0 | 0 | 0 | 10 | 53 | 0 | 63 | 1 | 0 | 2 | 39 | 0 | 12 | 12 |
| $18: 45$ | 0 | 0 | 0 | 0 | 6 | 54 | 0 | 60 | 2 | 0 | 3 | $5:$ | 0 | 15 | 10 |
| 101 | 0 | 0 | 0 | 01 | 39 | 272 | 0 | 251 | 6 | 0 | 13 | 19 | 0 | 64 | 39 |


| Grand Total | 0 | 0 | 0 | 0 | 422 | 994 | 0 | 1416 | 37 | 0 | 68 | 105 : | 0 | 525 | 651 | 1176 | 2697 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Apprch \% | 0.0 | 0.0 | 0.0 |  | 29.8 | 70.2 | 0.0 |  | 35.2 | 0.0 | 64.8 |  | 0.0 | 44.5 | 55.4 | , |  |
| Total \% | 0.0 | 0.0 | 0.0 | 0.0 | 15.6 | 36.9 | 0.0 | 52.5 | 1.4 | 0.0 | 2.5 | 3.9 | 0.0 | 19.5 | 24.1 | 43.6: |  |


|  | Southbound |  |  |  | CR4: <br> Westoound |  |  |  | SETF5 OFF RAMP Nonthbound |  |  |  | CR41 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stant Thte | tef | Trra | Right | Topel | Len! | Thre: | Right | $\begin{aligned} & \text { Apo } \\ & \text { Total } \end{aligned}$ | Let | thas | Right 1 | $\begin{aligned} & \text { Rop } \\ & \text { Totat } \end{aligned}$ | Lett ! | thrs | Pight | Rop, | lnt Fetat |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersection | $06: 00$ |  |  | , |  |  |  | ; |  |  |  | ! |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 01 | 139 | 73 | 0 | 212: | 2 | 0 | 6 | 8 \% | 0 | 72 | 24.4 | 316 | 536 |
| Percent | 0.0 | 0.0 | 0.0 |  | 65.6 | 34.4 | 0.0 |  | 25.0 | 0.0 | 75.0 |  | 0.0 | 22.8 | 77.2 |  |  |
| Volume | 0 | 0 | 0 | 0 | 139 | 73 | 0 | 212 | 2 | 0 | 6 | 8 | 0 | 72 | 244 | 316 | 536 |
| Volume | 0 | 0 | 0 | 0 | 32 | 25 | 0 | 57 | 1 | 0 | 1 | 2 | 0 | 13 | 77 | 90 | 149 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.899 |
| High Int. | 5-45.00 |  |  |  | $06: 30$ |  |  |  | 06:45 |  |  |  | 06:15 |  |  |  |  |
| Volume | 0 | 0 | 0 | 01 | 40 | 22 | 0 | 62 ! | 1 | 0 | 3 | 4 | 0 | 13 | 77 | 90 |  |
| Peak Factor |  |  |  |  |  |  |  | 0.855 |  |  |  | 0.500 |  |  |  | 0.878 |  |

Bayside Engineering. Inc 1105 East Twiggs Street

Tampa, FL 33602
File Name: SB $1-75$ Ramps @ CR 41
Site Code : 00000000
Stan Date : 03/1 5/2005
Page No : 2

|  | Southbound |  |  |  | CR 9 Westbound |  |  |  | SBT-75 OFF FAMMF Northoound |  |  |  | CR 41 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stantor | Leter | Thru | Right | ${ }_{\text {Rotal }}^{\text {Rop }}$ | Len f | Tons: | Fight | Soc. | Len | Trau! | Rigra ! | ${ }_{\text {Thag }}$ | L.en | Thes | Right | Abpi | int Totas |
| Prathorficm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 49 | 283 | 0 | 332 | 6 | 0 | 20 | 26 | 0 | 118 | 59 | 177 | 535 |
| Percent | 0.0 | 0.0 | 0.0 |  | 14.8 | 85.2 | 00 |  | 23.1 | 0.0 | 76.9 |  | 0.0 | 66.7 | 33.3 |  | 535 |
| Volume | 0 | 0 | 0 | 0 | 49 | 283 | 0 | 332 | 5 | 0 | 20 | 26 | 0 | 118 | 59 | 177 |  |
| Volume | 0 | 0 | 0 | 0 | 19 | 75 | 0 | 94 | 3 | 0 | 7 | 10 | 0 | 33 | 15 | 48 | 152 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 | 0.880 |
| High int. |  |  |  |  | 16:45 |  |  |  | 16:45 |  |  |  | 6.15 |  |  |  |  |
| Volume Peak Factor | 0 | 0 | 0 | 0 | 19 | 75 | 0 | 94 | 3 | 0 | 7 | 10 | 0 | 38 | 16 | 54 |  |
| Peak Factor |  |  |  |  |  |  |  | 0.883 |  |  |  | 0.650 |  |  |  | 0.819 |  |

File Name : SE 1-75Ramps © CR 41 Site Code : 00000000 Stan Date : 03/15/2005 Page No

Groups Frinted-Trucks 8 Buses

|  | Southoound |  |  |  | CR41 <br> Westbound |  |  |  | SET. 75 UFF RAMP Northbound |  |  |  | CR 41 <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan Tme i | Lets | Thu | Rign ! | $\begin{aligned} & \text { Acp } \\ & \text { rotal } \end{aligned}$ | ten | true | Fignt | $\begin{aligned} & \mathrm{x}, \mathrm{cos} \\ & \mathrm{Totait} \end{aligned}$ | Let | Tras | Rigr | $\begin{aligned} & \text { Acp } \\ & \text { Total } \end{aligned}$ | Len | thes | Rixint | $\begin{aligned} & \text { AqP } \\ & \text { Tetad } \end{aligned}$ | 191. Totat |
| ${ }^{\text {Facar }}$ | T1 | 101 | 10 |  | 10 | 101 | TV |  | ro | 10 | 10 | $\square$ ! | 101 | $10:$ | 10 |  |  |
| 06.00 | U | 0 | 0 | $0]$ | 0 | U | 0 | U1 | 0 | 0 | 0 | 01 | 0 | 0 | T | 1 | 1 |
| 06:15 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 5 |
| 06:30 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 06:45 | 0 | 0 | 0 | $0!$ | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | 0 | 0 | 01 | 2 | 4 | 0 | 6 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 9 |


| 07:15 | 0 | 0 | 0 | $0:$ | $\ddagger$ | 1 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07.30 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 3 |
| 07:45 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 1 | 0 | 0 | i | 0 | 2 | 0 | 2 | 6 |
| Total | 0 | U | 0 | U: | 2 | 4 | 0 | $6:$ | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 13 |


| 08:00 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 31 | 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 08:15 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | $1{ }^{\prime}$ | 1 | 0 | 2 | 3 | 0 | 1 | 0 | 1 | 5 |
| 08:30 | 0 | 0 | 0 | 01 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 4 |
| 08:45 | 0 | 0 | 0 | 0 ? | 3 | 3 | 0 | 6 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | $1:$ | 8 |
| Total | 0 | 0 | 0 | U | 3 | 6 | 0 | 9: | 2 | 0 | 2 | 4. | 0 | 4 | 3 | 1 | 2 |


| 16.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16.15 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 1 | i | 0 | 3 | 1 | 4 | 2 |
| 16.30 | 0 | 0 | 0 | 0 : | 1 | 2 | 0 | 3 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 - | 5 |
| 16.45 | 0 | 0 | 0 | 0. | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 7 |
| Tolal | 0 | U | 0 | U: | 2 | 6 | 0 | 8 | U | 0 | 3 | 3 | 0 | 7 | 3 | $10:$ | $2{ }^{-1}$ |
| 17.00 | 0 | 0 | 0 | 0 ; | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 31 | 6 |
| 1715 | 0 | 0 | 0 | 0 | $\dagger$ | 1 | 0 | 2 | 0 | 0 | 0 | 0 ; | 0 | 0 | 2 | 2 | 4 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 : | 0 | 0 | 0 | 0 | 1 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | U | 0 | $\square$ | 2 | 4 | 0 | $6!$ | 0 | 0 | I | T: | U | 3 | 2 | 5 | 12 |
| 18.00 | 0 | 0 | 0 | 01 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 1 1 | 0 | 0 | 0 | 0: | 3 |
| 18:15 | 0 | 0 | 0 | $0!$ | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 6 | 7 |
| 18:45 | 0 | 0 | 0 | 0. | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 2 |
| Total | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 2 | \% | 0 | 2 | 0 | 2 | 4 | $6:$ | 12 |
| Grand Total | 0 | 0 | 0 | 01 | 12 | 27 | 0 | 391 | 5 | 0 | 7 | 12 | 0 | 22 | 14 | 361 | 87 |
| Apprch \% | 0.0 | 0.0 | 0.0 |  | 30.8 | 69.2 | 0.0 |  | 41.7 | 0.0 | 58.3 |  | 0.0 | 61.1 | 38.9 |  |  |
| Total \% | 0.0 | 0.0 | 0.0 | 0.0 | 13.8 | 31.0 | 0.0 | 44.8 : | 5.7 | 0.0 | 8.0 | 138 | 0.0 | 25.3 | 16.1 | 41.4 |  |


|  | Southbound |  |  |  | CR41 <br> Westbound |  |  |  | SBT. 75 OFF RAMP Northbound |  |  |  | CR 41 <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S Stan Time | tent | thre i | Fignt | top. | Let | Thrs | Rignt | Prat | Len | Trus | Righr | 7par | Len | True 1 | Rigrst | Top. | Ins Totat |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 3 | 6 | 0 | 9 | 2 | 0 | 2 | 4 | 0 | 4 | 3 | 7 | 20 |
| Percent | 0.0 | 0.0 | 0.0 |  | 333 | 66.7 | 0.0 |  | 50.0 | 0.0 | 50.0 |  | 0.0 | 57.1 | 42.9 |  |  |
| Volume | 0 | 0 | 0 | $0^{\circ}$ | 3 | 6 | 0 | 9 | 2 | 0 | 2 | 4 | 0 | 4 | 3 | 7 | 20 |
| Volume | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 61 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 8 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.625 |
| High int. | 5:45:00 |  |  |  | 08:45 |  |  |  | 08:15 |  |  |  | 8:00 |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 6 | 1 | 0 | 2 | 31 | 0 | 2 | 1 | 3 |  |
| Peak Factor |  |  |  |  |  |  |  | 0.375 |  |  |  | 0.333 ! |  |  |  | $0.583{ }^{\prime}$ |  |

Bayside Engineering, Inc. 1105 East Twiggs Street Tampa. FL 33602

File Name: SE1-75 Ramps © CR 4 Site Code : 00000000 Start Date : 03/15/2005 Page No

2

| $\square$ | Southbound |  |  |  | CR41 <br> Westbound |  |  |  | SET-75 OFF RAMF <br> Narthbound |  |  |  | CR41 <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan Tume | Len | TM | Fight1 | Fopp | Lent | Thou | Rught | $\begin{aligned} & \text { Rep } \\ & \text { Total } \end{aligned}$ | Len 1 | Trus | Figra | $\begin{aligned} & \text { Rop } \\ & \text { Tolai } \end{aligned}$ | Lent | Thus 1 | Rignt | App | Int. Totat |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 3 | 8 | 0 | 11 | 0 | 0 | 3 | 3 | 0 | 9 | 2 | 11 | 25 |
| Percent | 0.0 | 0.0 | 0.0 |  | 27.3 | 72.7 | 0.0 |  | 0.0 | 0.0 | 100. |  | 0.0 | 81.8 | 18.2 |  |  |
| Volume | 0 | 0 | 0 | 0 | 3 | 8 | 0 | 11 | 0 | 0 | 3 | 3 | 0 | 9 | 2 | 11 | 25 |
| Volume | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 7 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.893 |
| High Int. |  |  |  |  | $16: 30$ |  |  |  | 15:30 |  |  |  | $16: 15$ |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 ! | 1 | 2 | 0 | 3 | 0 | 0 | 2 | 2 | 0 | 3 | 1 | 4 |  |
| Peak Factor |  |  |  |  |  |  |  | 0.917 |  |  |  | 0.375 |  |  |  | 0688 |  |

Counted by : Ron
Board \# : 1320
Weamer $:$ cool/rany

File Narne: SB 1-75Ramps @ CR 41 Site Code : 00000000 Start Date : 03/15/2005 Page No

Groups Printed- U-Turns

|  | Southbound |  |  |  | CR 71 <br> Westbound |  |  |  | SET-75 OFF RAMP Northbound |  |  |  | CR 41 Eastbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan rma | Len! | Thro \| | Richt | Rop. Toral | Left | Thre | figer | $\begin{aligned} & \text { सpp. } \\ & \text { Tctal } \end{aligned}$ | Leth | Thru | Rions | Topia | Leff ! Tra | Right | ${ }_{\text {recat }}$ | Int. Total |
| Facar | VI | 07 | 10: |  | 101 | 01 | TV. |  | TV7 | 10. | To: | - | 1017 | 1.0 |  |  |


| 16:30 | 0 | 0 | 0 | 01 | 1 | 0 | 0 | 11 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tola | $\sigma$ | 0 | 0 | 01 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | U | $\square$ | 1 |
| Grand Total | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 1 |
| Apprch \% | 0.0 | 00 | 0.0 |  | 100. | 0.0 |  |  | 0.0 |  | 0.0 |  | 0.0 |  |  |  |  |
| Total \% | 0.0 | 00 | 0.0 | 0.0 | 100 0 | 0.0 | 0.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.01 | 0.0 | 0.0 | 0.0 | 0.0 |  |


|  | Southbound |  |  |  | CR 41 <br> Westbound |  |  |  | SETF 750 FF RAMP Nonhbound |  |  |  | CR 4 Eastbound |  |  | Rbe tolat imitat |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $5 \operatorname{san}$ Tries | Leta ! | Trou | ${ }^{\text {Along }}$ | $\begin{aligned} & \text { for } \\ & \text { fotal } \end{aligned}$ | Len | Tru | Rign ! | Abar: | Len ! | mons | Ragt | $\begin{aligned} & 206 \\ & \text { Total } \end{aligned}$ | Len! | Thus! | Rixgh ! |  |  |
|  Intersection 06:00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent | 0.0 | 00 | 0.0 | , | 0.0 | 0.0 | 0.0 | + | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.0 | 0.0 |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.000 |
| High int. Volume | 5:45:00 |  |  |  | 5:45:00 |  |  |  | 5:45:00 |  |  |  | 45:00 |  |  |  |  |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Peak Hour From 16:00: :0 18:45- Peak 1 of 1

| intersection volume | $\begin{array}{r} 16.00 \\ 0 \end{array}$ | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percent | 0.0 | 0.0 | 00 |  | 100 | 0.0 | 0.0 |  | 0.0 |  | 0.0 | 1 | 0.0 | 0.0 | 0.0 |  |  |
| Volume | 0 | 0 | 0 | 0 ! | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Volume | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Peak Factor High int. |  |  |  |  | 16:30 |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume Peak Factor | 0 | 0 | 0 | $0!$ | 1 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |

Tampa, FL 33602

Groups Prnted- Passenger Vehicles - Trucks \& Euses - U-Turns

|  | Southbound |  |  |  | CR 41Westbound |  |  |  | SET75 OFF RAMPNorthbound |  |  |  | CR 41Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan Tmo | Lem | Tru | Fignt | $\mathrm{Abp}_{\mathrm{Amop}}$ | Len ! | Tru: | Figrs | $x_{\text {otal }}$ | Len | Trus | Rigrt | $\begin{aligned} & \text { sep } \\ & \text { Tomat } \end{aligned}$ | (en) | nrs | Fight | $\begin{aligned} & \text { Roc. } \\ & \text { Total } \end{aligned}$ | int Total |
| Farorl | 4 | V | $T$ |  | TV | ${ }^{10} 5$ | 10 |  | Yo | 10 | T |  | 10 | 10 | 10 |  |  |
| 06:00 | U | 0 | 0 | 0 | 41 | 13 | 0 | 54 | T | 0 | 0 | 01 | 0 | 18 | 10 | 88 | 142 |
| 06:15 | 0 | 0 | 0 | 0 | 32 | 28 | 0 | 60 | 1 | 0 | 2 | 3 | 0 | 13 | 78 | 91 | 154 |
| 06:30 | 0 | 0 | 0 | 0 | 41 | 23 | 0 | 64 | 0 | 0 | 2 | 2 | 0 | 23 | 56 | 79 | 145 |
| 06:45 | 0 | 0 | 0 | 01 | 27 | 13 | 0 | 40 | 1 | 0 | 3 | 4 | 0 | 18 | 42 | 60 | 104 |
| Total | 0 | 0 | 0 | 01 | 141 | 77 | 0 | 218 | 2 | 0 | 7 | प1 | 0 | 72 | 246 | 318 | 545 |


| 07:00 | 0 | 0 | 0 | 0 | 18 | 16 | 0 | 34 | 1 | 0 | 0 | 1 | 0 | 18 | 36 | 54 | 89 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $07: 15$ | 0 | 0 | 0 | 01 | 35 | 22 | 0 | 57 | 6 | 0 | 2 | 8 | 0 | 31 | 40 | 71 | 136 |
| 07:30 | 0 | 0 | 0 | 01 | 24 | 30 | 0 | 54 | 1 | 0 | 3 | 4 | 0 | 37 | 33 | 70 | 128 |
| 07:45 | 0 | 0 | 0 | 0 : | 21 | 27 | 0 | 48 | 2 | 0 | 2 | 4 | 0 | 25 | 46 | 71 | 123 |
| Total | 0 | 0 | 0 | U1 | 98 | 95 | 0 | 193 | 10 | $\square$ | 7 | 17 | 0 | 11 | 155 | 266 | 475 |
| 08:00 | 0 | 0 | 0 | 0 | 16 | 25 | 0 | 41 : | 2 | 0 | 2 | 4 | 0 | 27 | 32 | 59 | 104 |
| 08:15 | 0 | 0 | 0 | 0 | 17 | 23 | 0 | 40 | 2 | 0 | 7 | 9 | 0 | 18 | 25 | 43 | 92 |
| 08:30 | 0 | 0 | 0 | 0 | 8 | 22 | 0 | 30 | 1 | 0 | 2 | 3 | 0 | 24 | 27 | 51 | 84 |
| 08:45 | 0 | 0 | 0 | 01 | 23 | 25 | 0 | 48 | 1 | 0 | 1 | 2 | 0 | 19 | 37 | 56 | 106 |
| Total | 0 | 0 | 0 | $\square$ | 64 | 95 | 0 | 159 | 6 | 0 | 12 | 18. | 0 | 88 | 121 | 209 | 386 |


| 16.00 | 0 | 0 | 0 | 0 | 13 | 49 | 0 | 62 | 2 | 0 | 5 | 7 | 0 | 17 | 12 | 29 | 98 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16:15 | 0 | 0 | 0 | 01 | 6 | 62 | 0 | 68 | 0 | 0 | 6 | 6 | 0 | 41 | 17 | 58 | 132 |
| 16:30 | 0 | 0 | 0 | $0!$ | 11 | 72 | 0 | 83 | 2 | 0 | 7 | 9 | 0 | 22 | 18 | 40 ! | 132 |
| 16.45 | 0 | 0 | 0 | 0 | 20 | 77 | 0 | 97 | 3 | 0 | 7 | 10 | 0 | 35 | 16 | 52 | 159 |
| Total ${ }^{-1}$ | 0 | 0 | 0 | 0 | 50 | 260 | 0 | अण1 | 7 | 0 | 25 | 32 | $\square$ | 76 | 63 | 173 | 521 |
| 17.00 | 0 | 0 | 0 | 0 | 16 | 80 | 0 | 96: | 1 | 0 | 3 | 4 | 0 | 28 | 10 | 38 : | 138 |
| 17.15 | 0 | 0 | 0 | 0 | 9 | 73 | 0 | 82 | 3 | 0 | 0 | 3 | 0 | 25 | 11 | 36 | 121 |
| 17:30 | 0 | 0 | 0 | $0:$ | 12 | 63 | 0 | 75 | 3 | 0 | 5 | 8 | 0 | 23 | 7 | 30 | 113 |
| 17:45 | 0 | 0 | 0 | $0:$ | 5 | 63 | 0 | 68 | 2 | 0 | 3 | 5 | 0 | 18 | 9 | 27 ! | 100 |
| Tolat | 0 | 0 | 0 | U: | 42 | 275 | 0 | 31 | - | 0 | IT | 20 | 0 | 94 | 37 | 13 | 472 |
| 18:00 | 0 | 0 | 0 | 01 | 11 | 57 | 0 | 68 | 2 | 0 | 5 | 7 | 0 | 21 | 4 | 25 | 100 |
| 18:15 | 0 | 0 | 0 | 0 | 13 | 50 | 0 | 63 | 2 | 0 | 3 | 5 | 0 | 18 | 17 | 351 | 103 |
| 18:30 | 0 | 0 | 0 | 0 | 10 | 53 | 0 | 63 | 1 | 0 | 2 | 3 | 0 | 12 | 12 | 24 | 90 |
| 18:45 | 0 | 0 | 0 | 0 | 6 | 55 | 0 | 61 | 3 | 0 | 3 | 6 | 0 | 15 | 10 | 25 | 92 |
| Total | 0 | 0 | 0 | 01 | 40 | 215 | 0 | 255 | 8 | 0 | 13 | 21 | U | 66 | 43 | 109 ! | 385 |
| Grand Total | 0 | 0 | 0 | 0 | 435 | 1021 | 0 | 1456 | 42 | 0 | 75 | 117 | 0 | 547 | 665 | 1212 | 2785 |
| Apprch \% | 0.0 | 0.0 | 0.0 |  | 29.9 | 70.1 | 0.0 |  | 35.9 | 0.0 | 64.1 |  | 0.0 | 45.1 | 54.9 |  |  |
| Total \% | 0.0 | 0.0 | 0.0 | 0.0 | 15.6 | 36.7 | 0.0 | 52.3 | 1.5 | 0.0 | 2.7 | 4.2 | 0.0 | 19.6 | 23.9 | 43.5 |  |


|  | Southbound |  |  |  | CR41 Westbound |  |  |  | SET. 75 OFF RKMF <br> Northbound |  |  |  | CHat Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stant Tme | Lent | Tru! | Right | Ropot\| | Lon : | Thru | Fight | $\begin{gathered} \operatorname{son} \\ \text { Totai } \end{gathered}$ | Let | Thou 1 | Rig\% | Too | Len | Trau | Rught | $\xrightarrow{\text { Rogal }}$ | Int. Total |
|  <br> Intersection 06:00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 141 | 77 | 0 | 218 | 2 | 0 | 7 | 9 | 0 | 72 | 246 | 318 | 5 |
| Percent | 0.0 | 0.0 | 00 |  | 64.7 | 35.3 | 0.0 |  | 22.2 | 0.0 | 77.8 |  | 0.0 | 22.6 | 77.4 |  |  |
| Volume | 0 | 0 | 0 | 0 | 141 | 77 | 0 | 218 | 2 | 0 | 7 | 9 | 0 | 72 | 246 | 318 | 545 |
| Volume | 0 | 0 | 0 | 0 | 32 | 28 | 0 | $60:$ | , | 0 | 2 | 3 | 0 | 13 | 78 | 91 | 154 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.885 |
| High int. | 5:45:00 |  |  |  | 06:30 |  |  |  | 06:45 |  |  |  | 06:75 |  |  |  |  |
| volume | 0 | 0 | 0 | 0 | 41 | 23 | 0 | 64 | 1 | 0 | 3 | 4 : | 0 | 13 | 78 | 91 |  |
| Peak Factor |  |  |  |  |  |  |  | $0.852^{\text {i }}$ |  |  |  | 0.563 : |  |  |  | 0.874 |  |

Bayside Engineering, Inc.
1105 East Twiggs Street
Tampa. FL 33602
File Name : SB I-75 Ramps @ CR 41 Site Code : 00000000
Start Date: 03/15/2005
Page No : 2

|  | Southbound |  |  |  | CR 41 Westbound |  |  |  | SETन 75 OFF RAMP Northbound |  |  |  | CR4 4 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Tme | Lat | Tmu | Right | $\begin{array}{l\|} \text { abo } \\ \text { Toatal } \end{array}$ | Lent: | Tros | Fight | ${ }_{\text {rapal }}^{\text {Rep. }}$ | Len | Mru | Righ | $\begin{aligned} & \text { ApD ! } \\ & \text { Totas ! } \end{aligned}$ | Lan! | Trus | Fighe: | ${ }_{\text {Pbo }}$ | In Totat |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 53 | 291 | 0 | 344 | 6 | 0 | 23 | 29 | 0 | 127 | 61 | 188 |  |
| Percent | 0.0 | 0.0 | 0.0 |  | 15.4 | 84.6 | 0.0 |  | 20.7 | 0.0 | 79.3 |  | 0.0 | 67.6 | 32.4 |  |  |
| Volume | 0 | 0 | 0 | 0 | 53 | 291 | 0 | 344 | 6 | 0 | 23 | 29 | 0 | 127 | 61 | 188 | 561 |
| Volume | 0 | 0 | 0 | 0 | 20 | 77 | 0 | 97 | 3 | 0 | 7 | 10 | 0 | 36 | 16 | 52 | 159 |
| Feak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.882 |
| High int. |  |  |  |  | 16:45 |  |  |  | 16:45 |  |  |  | 16:15 |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 20 | 77 | 0 | 97 | 3 | 0 | 7 | 10 | 0 | 41 | 17 | 58 |  |
| Peak Factor |  |  |  |  |  |  |  | 0.887 |  |  |  | 0725 |  |  |  |  |  |

BAYSIDE ENGINEERING INC.

PEDESTRIAN MOVEMENT SUMMARY





State Road: $\qquad$ County: $\qquad$ pasco Intersecting Road: $\qquad$ $\frac{\text { Ryan }}{3-15.05}$ Completed By: $\qquad$
Count Date: Date: $\qquad$

BAYSIDE ENGINEERING INC.

BICYCLE MOVEMENT SUMMARY

Section:


Bayside Engineering, Inc. 1105 East Twiggs Street

Tampa. FL 33602

File Name: NB 1-75 Ramps @ CR 41 Site Code : 00000000 Stan Date: 03/15/2005 Page No

Groups Printed-Passenger Vehictes

|  | NET-75OFF KAMP Southbound |  |  |  | CR41 <br> Westbound |  |  |  | Northbound |  |  |  | CR 41 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $5 \tan$ Tmete | Let! | Theo 1 | Piegrt | $\begin{aligned} & \text { Rop } \\ & \text { Total } \end{aligned}$ | Len ${ }^{\text {a }}$ | Trru | Rigrs: | $\begin{aligned} & \text { Rop } \\ & \text { Totat } \end{aligned}$ | Len | Tru - | Figre | $\begin{gathered} \mathrm{ADDD}^{\mathrm{A}=12 a l} \mid \end{gathered}$ | Let! | Thrs | Right | $\begin{gathered} \text { Fop. } \\ \text { Totat } \end{gathered}$ | in Yotal |
| Fadal | 10 | T01 | 0 |  | 01 | 10 | 0 |  | 1 | प\% | $10:$ |  | T0: |  | To |  |  |
| 06.00 | 2 | 0 | 5 | 7 | 0 | 53 | 0 | 53 | J | 0 | 0 | 0 | T | 17 | 0 | 18 | 78 |
| 06:15 | 4 | 0 | 3 | 7 | 0 | 52 | 1 | 53 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 15 | 75 |
| 06:30 | 10 | 0 | 5 | 15 | 0 | 54 | , | 58 | 0 | 0 | 0 | 0 | 2 | 22 | 0 | 24 | 97 |
| 06:45 | 2 | 0 | 4 | 6 | 0 | 34 | 2 | 36 | 0 | 0 | 0 | 0 | 2 | 19 | 0 | 21 | 63 |
| Total | 18 | 0 | 17 | 351 | 0 | 193 | 7 | 200 | U | 0 | 0 | $\bigcirc$ | 5 | 73 | 0 | $76!$ | 313 |
| 07:00 | 5 | 0 | 6 | 11 | 0 | 29 | 3 | 32 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 19 | 62 |
| 07:15 | 7 | 0 | 6 | 13 | 0 | 42 | 3 | 45 | 0 | 0 | 0 | 0 | 1 | 35 | 0 | 36 | 94 |
| 07.30 | 16 | 0 | 13 | 29 | 0 | 40 | 4 | 44 | 0 | 0 | 0 | 0 | 4 | 37 | 0 | 41 | 114 |
| 07.45 | 5 | 0 | 11 | 16 | 0 | 34 | 1 | 35 | 0 | 0 | 0 | 01 | 5 | 19 | 0 | 24 | 75 |
| Total | 33 | 0 | 36 | 69 | 0 | 145 | 11 | 156 | 0 | 0 | 0 | $\square$ | 10 | 150 | 0 | 120: | 345 |
| 08:00 | 4 | 0 | 13 | 17 | 0 | 26 | 5 | 31 | 0 | 0 | 0 | 01 | 2 | 26 | 0 | $28:$ | 76 |
| 08:15 | 8 | 0 | 11 | 19 | 0 | 26 | 7 | 33. | 0 | 0 | 0 | 0 | 3 | 14 | 0 | 17 | 69 |
| 08:30 | 8 | 0 | 6 | 14 | 0 | 24 | 2 | 26 | 0 | 0 | 0 | 01 | 4 | 23 | 0 | 27 | 67 |
| 08.45 | 10 | 0 | 15 | 25 ! | 0 | 25 | 3 | 28 ! | 0 | 0 | 0 | 0 | 5 | 14 | 0 | 191 | 72 |
| Total | J0 | 0 | 45 | 75 | 0 | 101 | 17 | 178 | 0 | 0 | 0 | 0: | 14 | 37 | O | प1: | 286 |


| $16: 00$ | 22 | 0 | 34 | 56 | 0 | 23 | 1 | 24 | 0 | 0 | 0 | 0 | 3 | 18 | 0 | 21 | 107 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $16: 15$ | 18 | 0 | 42 | 60 | 0 | 29 | 6 | 35 | 0 | 0 | 0 | 0 | 2 | 41 | 0 | 43 | 138 |
| $16: 30$ | 27 | 0 | 43 | 70 | 0 | 35 | 5 | 40 | 0 | 0 | 0 | 0 | 3 | 25 | 0 | 28 | 138 |
| $16: 45$ | 25 | 0 | 49 | 74 | 0 | 43 | 4 | 47 | 0 | 0 | 0 | 0 | 1 | 39 | 0 | 40 | 161 |
| 106 | 92 | 0 | 168 | 260 | 0 | 30 | 16 | 146 | 0 | 0 | 0 | 0 | 9 | 123 | 0 | 132 | 538 |


| 17:00 | 31 | 0 | 45 | 77 | 0 | 45 | 6 | 51 | 0 | 0 | 0 | 0 | 3 | 23 | 0 | 26. | 15.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1715 | 19 | 0 | 44 | 63 | 0 | 35 | 4 | 43 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 28 | 134 |
| 17.30 | 28 | 0 | 29 | 57 | 0 | 38 | 5 | 43 | 0 | 0 | 0 | 0 | 6 | 23 | 0 | 29 | 129 |
| 17:45 | 26 | 0 | 42 | 68 ! | 0 | 23 | 3 | 26 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 112 |
| Tomal | 104 | 0 | 161 | 263 | 0 | 145 | 18 | 163 | 0 | 0 | 0 | 01 | 9 | 92 | 0 | 101, | 529 |
| 18.00 | 28 | 0 | 41 | 69 | 0 | 27 | 6 | 33 | 0 | 0 | 0 | 0 | 2 | 25 | 0 | 27 | 129 |
| 18:15 | 16 | 0 | 31 | 47 ! | 0 | 30 | 4 | 34 | 0 | 0 | 0 | 01 | 1 | 18 | 0 | 19 ! | 100 |
| 18:30 | 29 | 0 | 41 | 70 | 0 | 21 | 1 | 22 | 0 | 0 | 0 | 0 | 2 | 12 | 0 | 14 | 106 |
| 18:45 | 19 | 0 | 40 | 59 | 0 | 18 | 5 | 23 | 0 | 0 | 0 | 0 | 2 | 15 | 0 | 17 | 99 |
| Total | 92 | 0 | 153 | 245: | 0 | 96 | 16 | 112 | 0 | 0 | 0 | 01 | 7 | 70 | 0 | 77 | 434 |
| Grand Total | 369 | 0 | 580 | 949 | 0 | 810 | 85 | 895 | 0 | 0 | 0 | 01 | 54 | 545 | 0 | 599 | 2443 |
| Apprct \% | 38.9 | 0.0 | 61. |  | 0.0 | 90.5 | 9.5 |  | 0.0 | 0.0 | 0.0 |  | 9.0 | 91.0 | 0.0 |  |  |
| Total \% | 15.1 | 0.0 | 23.7 | 38.81 | 0.0 | 33.2 | 3.5 | 36.6 ! | 0.0 | 0.0 | 0.0 | 0.01 | 22 | 22.3 | 0.0 | 24.5 |  |


|  | NETFI5 OFF KAMP <br> Southbound |  |  |  | CR4 1 <br> Westbound |  |  |  | Northbound |  |  |  | CR 41 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stat Tmis | Let | men | Right | totil | Lst | Tru! | Right | $\begin{aligned} & \text { Rob } \\ & \text { Total ! } \end{aligned}$ | Lett: | Thu ! | Rima | $\begin{aligned} & \mathrm{kcp} \\ & \text { retai } \end{aligned}$ | tat | Tins | Right : | $\begin{aligned} & \text { Aop } \\ & \text { totat } \end{aligned}$ | 1rat. Totas |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersection | 0715 |  |  | 75 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 32 | 0 | 43 | 75. | 0 | 142 | 13 | 155 | 0 | 0 | 0 | 0 | 12 | 117 | 0 | 129 | 359 |
| Percent | 42.7 | 0.0 | 57.3 |  | 0.0 | 91.6 | 8.4 |  | 0.0 | 0.0 | 0.0 |  | 9.3 | 90.7 | 0.0 |  |  |
| Volume | 32 | 0 | 43 | 75 | 0 | 142 | 13 | 155 ; | 0 | 0 | 0 | 0 | 12 | 117 | 0 | 129 | 359 |
| Volume | 16 | 0 | 13 | 29 | 0 | 40 | 4 | 44. | 0 | 0 | 0 | 0 | 4 | 37 | 0 | 41 | 114 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.787 |
| High int. | 07:30 |  |  |  | $07: 15$ |  |  |  | 5:45:00 |  |  |  | 7.30 |  |  |  |  |
| Volume | 16 | 0 | 13 | 29 | 0 | 42 | 3 | 45 | 0 | 0 | 0 | 0 | 4 | 37 | 0 | 41 |  |
| Peak Factor |  |  |  | 0.647 |  |  |  | 0.861 |  |  |  |  |  |  |  | 0.787 |  |

Bayside Engineering, inc.
1105 East Twiggs Street
Tampa, FL 33602
File Name : NE 1-75 Ramps @ CR 41 Site Code :00000000
Start Date: $03 / 15 / 2005$
Page No : 2

|  | NET-75 OFF RAMMSouthbound |  |  |  | CR 41 Westbound |  |  |  | Northbound |  |  |  | CR4Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | True | Figm | $\begin{array}{l\|} \text { Rop } \\ \text { Total } \end{array}$ | Leti | Trul | Right | Totai | Lett | Ton | Rignt | Rool | Leh | Trus | Fight | $\begin{aligned} & \mathrm{App}, \\ & \text { Yoted } \end{aligned}$ | int Toral |
| Fonkourromib intersection | $\begin{aligned} & \text { OUTO PE:. } \\ & 16: 15 \end{aligned}$ | Prax | al |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 101 | 0 | 180 | 281 | 0 | 152 | 21 | 173 : | 0 | 0 | 0 | 0 | 9 | 128 | 0 | 137 |  |
| Percent | 35.9 | 0.0 | 64.1 |  | 0.0 | 87.9 | 12.1 |  | 0.0 | 0.0 | 0.0 |  | 6.6 | 93.4 | 0.0 |  |  |
| Volume | 101 | 0 | 180 | 281 | 0 | 152 | 21 | 173 | 0 | 0 | 0 | 0 | 9 | 128 | 0 | 137 | 591 |
| Volume | 25 | 0 | 49 | 74 | 0 | 43 | 4 | 47 | 0 | 0 | 0 | 0 | 1 | 39 | 0 | 40 | 161 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.918 |
| High int. | 1700 |  |  |  | 17:00 |  |  |  |  |  |  |  | 16:15 |  |  |  |  |
| Volume | 31 | 0 | 46 | 77 | 0 | 45 | 6 | 51 | 0 | 0 | 0 | 01 | 2 | 41 | 0 | 43 |  |
| Peak Factor |  |  |  | 0912 ! |  |  |  | 0.848 |  |  |  |  |  |  |  | 0.797 |  |

Bayside Engineering, inc. 1105 East Twiggs Street Tampa. FL 33602

File Name : NB 1-75Ramps @ CR 41 Site Code : 00000000 Start Date : 03/15/2005 Page No
Groups Printed-Trucks \& Buses

|  | NETFIS OFF RAMF Southbound |  |  |  | CR 91 <br> Westbound |  |  |  | Northbound |  |  |  | CR 41 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan Tme | Len | Tru | Right | Top. | Let | Tru! | Fibst ! | Topat | ten | Trou | Rigere ! | Rotal | Len | Thru | fight | $\begin{aligned} & \text { xap } \\ & \text { Tota } \end{aligned}$ | Inc Total |
| Facor! | $\square$ | T0 | T1 |  | 10: | 10 | T0: |  | n] | Tr | 101 |  | IV | 01 | T.0 |  |  |
| 06\%0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | T | 0 | 0 | 0 | 0 | 7 | 0 | 0 | T |
| 06:15 | ; | 0 | 3 | 4 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 6 |
| 06:30 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 06:45 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Tota | 2 | U | 3 | 5 | 0 | 3 | 2 | 5 | D | 0 | 0 | 0 | U | T | 0 | 1 | T- |


| 0700 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 : | 1 | 0 | 0 | 1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 5 2 |
| 07:30 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | $\bigcirc$ | 2 | 3 |
| 07.45 | 2 | 0 | 0 | 2 | 0 | 3 | 0 | 31 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 7 |
| Tolal | 2 | U | 0 | 2 | 0 | ${ }^{5}$ | 1 | 3 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 6 | 17 |


| 08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 08:15 | 1 | 0 | 1 | 2 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 7 |
| 08:30 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 5 |
| 08:45 | 0 | 0 | 3 | 31 | 0 | 2 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ¢ |
| Tola | 3 | U | 4 | 7 | 0 | 5 | 4 | 9 | T | V | 0 | 5 | 1 | 5 | 0 | 6 | 22 |


| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 i | 1 | 0 | 0 | 1 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16:15 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 ! | 2 | 2 | 0 | 4 | 5 |
| 16:30 | 0 | 0 | 1 | 1 ! | 0 | 2 | 0 | 2 ! | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 5 |
| 16.45 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 2 . | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 7 |
| Total | 0 | O | 4 | 4 | 0 | 3 | 2 | 5 | 0 | 0 | U | 01 | 5 | 5 | 0 | 101 | 19 |
| 1700 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 01 | 0 | 3 | 0 | 3 | 7 |
| 1715 | 0 | 0 | 0 | $0!$ | 0 | 7 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 - | 2 |
| 17:30 | 0 | 0 | 1 | $\dagger$ | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 17:45 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 0 | 1 | 0 | 1: | 2 |
| Tola | 1 | 0 | 1 | 21 | 0 | 5 | 2 | 7 | O | 0 | 0 | 0 | 0 | 4 | 0 | 41 | 13 |
| $18: 00$ | 0 | 0 | 1 | 11 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 2 |
| 18:15 | 0 | 0 | 0 | $0:$ | 0 | 1 | 1 | $2^{1}$ | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 4 |
| 18:45 | 0 | 0 | 0 | $0:$ | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 01 | 2 |
| Tola | 0 | U | T | 1 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 01 | T | 1 | 0 | 21 | 8 |
| Grand Total | 8 | 0 | 13 | $21:$ | 0 | 27 | 13 | 40 | 0 | 0 | 0 | 0 | 9 | 20 | 0 | 291 | 90 |
| Apprch \% | 38.1 | 0.0 | 61.9 |  | 0.0 | 67.5 | 32.5 | , | 00 | 0.0 | 0.0 |  | 31.0 | 69.0 | 0.0 |  |  |
| Total \% | 8.9 | 0.0 | 14.4 | 23.3 i | 0.0 | 30.0 | 14.4 | 444 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 22.2 | 0.0 | 32.2 |  |


|  | NBTन 75 OFF RAMP <br> Southbound |  |  |  | CR 41 <br> Westbound |  |  |  | Northbound |  |  |  | CR 41 <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stantimo | ¢恠 | Tiru | Righ! | Toral | Left | Thru | Rigm : | Redi | Let | Trus | Rignt | $\begin{aligned} & \text { poo } \\ & \text { Totai } \end{aligned}$ | Let | thres | Fiont | Cop | int. Total |
|  <br> intersection 08:00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 3 | 0 | 4 | 7 | 0 | 5 | 4 | 9 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 6 | 22 |
| Percent | 42.9 | 0.0 | 57.1 |  | 0.0 | 55.6 | 44.4 | ! | 0.0 | 0.0 | 0.0 |  | 16.7 | 83.3 | 0.0 |  |  |
| Volume | 3 | 0 | 4 | 7 | 0 | 5 | 4 | 9 ! | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 6 | 22 |
| Volume | 0 | 0 | 3 | 3 ! | 0 | 2 | 3 | 5 ; | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.688 |
| High int. | 08:45 |  |  |  | 9:45 |  |  |  | :45:00 |  |  |  | 08:15 |  |  |  |  |
| Volume | 0 | 0 | 3 | 3 | 0 | 2 | 3 | 5 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 |  |
| Peak Factor |  |  |  | 0.583 |  |  |  | 0.450: |  |  |  |  |  |  |  | 0.5001 |  |

Bayside Engineering, Inc. 1105 East Twiggs Street Tampa, FL 33602

File Name: NB 1-75 Ramps @ CR 41 Site Code : 00000000
Starl Date : 03/15/2005
Page No : 2

|  | NET 75 OFF RAMPSouthbound |  |  |  | CR 41 <br> Westbound |  |  |  | Northbound |  |  |  | CR41 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Tme | Lent | Tum | Rigm |  | L.en 1 | Thas | Rignt | $\begin{aligned} & \text { Abp } \\ & \text { Teral } \end{aligned}$ | Let | Trev | Ripht | $\begin{aligned} & \text { सfe: } \\ & \text { Torat } \end{aligned}$ | Len | Thro | Rigra 1 | ${ }^{\text {Pbob. }}$ | cre. Total |
| paik Foxi Fiom to Intersection | 16:15 | Peak | T |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 4 | 4 | 0 | 7 | 1 | 8 | 0 | 0 | 0 | 0 | 4 | 8 | 0 |  |  |
| Percent | 0.0 | 0.0 | $100 .$ |  | 0.0 | 87.5 | 12.5 |  | 0.0 | 0.0 | 0.0 |  | 33.3 | 66.7 | 0.0 |  |  |
| Volume | 0 | 0 | 4 | 4 | 0 | 7 | 1 | 8 | 0 | 0 | 0 | 0 | 4 | 8 | 0 | 12 |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 7 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 3 | $0.857^{7}$ |
| Highint. | 16:45 |  |  |  | $17: 00$ |  |  |  |  |  |  |  | 16:15 |  |  |  |  |
| Volume | 0 | 0 | 2 | 2 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 |  |
| Peak Factor |  |  |  | 0.500 |  |  |  | 0500 ! |  |  |  |  |  |  |  | 0.750 |  |

Bayside Engineering, Inc 1105 East Twiggs Street

## Grouns Printad. U-Turns

|  | NETF5 OFF FAMP Southbound |  |  |  | CR 4 <br> Westbound |  |  |  | Northbound |  |  |  | CR4 <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stant Time | Let | Tru | Right | Totai | Len | Toul | Right |  | Leti! | Tha! | Rigra | $\begin{aligned} & \mathrm{ApCO} \\ & \mathrm{rccat} \end{aligned}$ | Leff | Thrs | Right | Tolat | We Total |
| Factor | 10! | 101 | ग1 |  | $\square 1$ | 71 | 17 |  | 10 | T1 | 0 O |  | $\pi$ | $\square$ | ru |  |  |


| 08:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 0 | T | 0 | 0 | 0 | 0 | U | T1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |



| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 2 | 0 | 0 | 2 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Apprch \% | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.0 | 00 | 1 | $\begin{array}{r} 100 \\ 0 \end{array}$ | 0.0 | 0.0 | ! |  |
| Total \% | 0.0 | 0.0 | 00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.01 | 100. | 0.0 | 0.0 | 100.0 |  |


|  | NET.75 OFF RAM Southbound |  |  |  | CR4 <br> Westbound |  |  |  | Northbound |  |  |  | CR41 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Star Tune | Letr | 7has | Firat | ${ }_{\text {Rep }}{ }_{\text {ctai }}$ | teth | Trus | figr | $\begin{aligned} & \text { सbo } \\ & \text { Iotal } \end{aligned}$ | tat! | Thes | Ringrt | 70, | Lent | Thru ! | Fight : | Total | Int Toma |
| Feat fox Fiom vovioceas- मeak \} |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersection | 08:00 |  |  |  |  |  |  | : |  |  |  |  |  |  |  | ! |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 : | 1 |
| Percent | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.0 | 00 |  | 0.0 | 0.0 | 00 |  | 100. | 0.0 | 0.0 |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| Peak Facor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.250 |
| High Int. | 5:45:00 |  |  |  | 5:45:00 |  |  |  | 5:45.00 |  |  |  | 08.45 |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |  |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.250 |  |

Peak Hour From 16:00 to 18:45 - Peak 1 of 1


Bayside Engineering, Inc.
1105 East Twiggs Street
Tampa, FL 33602

Counted by : Ryan
Board \# : 1321
Weather : cool/rainy

File Name: NB 1-75 Ramps @ CR 41
Site Code : 00000000
Start Date : 03/15/2005
Page No : 1

Groups Printed-Passenger Vehicies - Trucks \& Buses - U-Tums

|  | NETF75 OFF FRMM <br> Southbound |  |  |  | CR4 Westbound |  |  |  | Northbound |  |  |  | CR 41 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan Tme | Lem | Thes 1 | Rigs | $\begin{aligned} & \text { Abs } \\ & \text { Torat } \end{aligned}$ | Lent | Than | Rigta | tope | L*t | Thru | Righ | Appl: | Len | Thus | Righs | $\begin{aligned} & \text { RoD } \\ & \text { Total } \end{aligned}$ | tre Total |
| Faca | rol | 10: | ri |  | O | 101 | , |  | $\pi$ | 1.0 | 1.0 |  | 1 | T | To |  |  |
| 5500 | 2 | 0 | 5 | 7 | 0 | 53 | 1 | 54 | 0 | 0 | 0 | 0 | T | 17 | 0 | 18 | 79 |
| 06:15 | 5 | 0 | 6 | 11 | 0 | 53 | 1 | 54 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 16 | 81 |
| 06:30 | 10 | 0 | 5 | 15 | 0 | 55 | 5 | 60 | 0 | 0 | 0 | 0 | 2 | 22 | 0 | 24 | 99 |
| 06:45 | 3 | 0 | 4 | 7 | 0 | 35 | 2 | 37 | 0 | 0 | 0 | 0 | 2 | 19 | 0 | 21 | 65 |
| Tota | 20 | 0 | 20 | $40!$ | 0 | 156 | 9 | 205 | 0 | 0 | 0 | 0 | 5 | 74 | 0 | 75 | 324 |


| 07:00 | 5 | 0 | $\square$ | 11 | 0 | 32 | 4 | 36 | 0 | 0 | 0 | 0 | 1 | 19 | 0 | 20 | 67 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 | 7 | 0 | 6 | 13 | 0 | 43 | 3 | 46 | 0 | 0 | 0 | 0 | 1 | 36 | 0 | 37 | 96 |
| 07:30 | 16 | 0 | 13 | 29 | 0 | 41 | 4 | 45 | 0 | 0 | 0 | 0 | 4 | 39 | 0 | 43 | 117 |
| 07:45 | 7 | 0 | 11 | 18 | 0 | 37 | 1 | 38 | 0 | 0 | 0 | 0 ! | 6 | 20 | 0 | 26 | 82 |
| Tatal | 35 | 0 | 35 | 71 | 0 | 153 | 12 | 165 | ए | 0 | 0 | 01 | 12 | 114 | 0 | 126. | 362 |
| 08:00 | 4 | 0 | 13 | 17 | 0 | 26 | 5 | 31 | 0 | 0 | 0 | 01 | 2 | 28 | 0 | 30 | 78 |
| 08:15 | 9 | 0 | 12 | 21 | 0 | 27 | 8 | 35 | 0 | 0 | 0 | 0 | 4 | 16 | 0 | 20 | 76 |
| 08:30 | 10 | 0 | 6 | 16 | 0 | 26 | 2 | 28 | 0 | 0 | 0 | 0 | 4 | 24 | 0 | 28 | 72 |
| 08:45 | 10 | 0 | 18 | 28 ! | 0 | 27 | 6 | 331 | 0 | 0 | 0 | 0 | 6 | 14 | 0 | 20 | 81 |
| Total | 33 | 0 | 49 | 82: | 0 | 106 | 21 | 127 | 0 | 0 | 0 | O | 16 | 82 | O | 98. | 307 |


| 16:00 | 22 | 0 | 34 | 561 | 0 | 23 | 2 | 25 | 0 | 0 | 0 | 0 | 4 | 18 | 0 | 22 | 103 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16:15 | 18 | 0 | 43 | 61 ; | 0 | 29 | 6 | 35 | 0 | 0 | 0 | 0 | 4 | 43 | 0 | 47 | 143 |
| 16:30 | 27 | 0 | 44 | 71 | 0 | 37 | 5 | 42 | 0 | 0 | 0 | 0 | 5 | 25 | 0 | 30 | 143 |
| 16:45 | 25 | 0 | 51 | 76 | 0 | 44 | 5 | 49 | 0 | 0 | 0 | 0 | 1 | 42 | 0 | 43 | 168 |
| Total | 52 | 0 | 172 | 264 | 0 | 133 | 18 | 151 | 0 | U | U | 0 | 14 | 128 | 0 | 142; | 557 |
| 17:00 | 31 | 0 | 46 | 77 | 0 | 49 | 6 | 55 | 0 | 0 | 0 | $0:$ | 3 | 26 | 0 | 29 | 161 |
| 17:15 | 19 | 0 | 44 | 63 ! | 0 | 40 | 5 | 45 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 28 | 136 |
| 17:30 | 28 | 0 | 30 | 58 ! | 0 | 38 | 6 | 44 | 0 | 0 | 0 | 0 | 6 | 23 | 0 | 25 | 134 |
| 17:45 | 27 | 0 | 42 | 69 | 0 | 23 | 3 | 26 | 0 | 0 | 0 | 0 | 1 | 19 | 0 | 20 | 115 |
| Total | 105 | 0 | 162 | 267 | 0 | 150 | 20 | 170 | U | 0 | U | 0 | 10 | 96 | U | 1061 | 543 |
| 18:00 | 28 | 0 | 42 | 70 | 0 | 28 | 6 | 34 | 0 | 0 | 0 | 0 | 2 | 25 | 0 | 27 | 131 |
| 18:15 | 16 | 0 | 31 | 47 : | 0 | 31 | 5 | 36 | 0 | 0 | 0 | 0 | 2 | 19 | 0 | $21!$ | 104 |
| 18:30 | 29 | 0 | 41 | 70 : | 0 | 21 | 1 | 22 | 0 | 0 | 0 | 0 | 2 | 12 | 0 | 14 . | 106 |
| 18:45 | 19 | 0 | 40 | 59 : | 0 | 19 | 6 | 25 | 0 | 0 | 0 | 0 | 2 | 15 | 0 | 17 | 101 |
| Totai | 92 | 0 | 154 | 246 | 0 | 99 | 18 | 177 | 0 | 0 | 0 | $0:$ | 8 | 71 | 0 | 79 | 442 |
| Grand Total | 377 | 0 | 593 | 970 | 0 | 837 | 98 | 935 | 0 | 0 | 0 | 0 | 65 | 565 | 0 | 630 | 2535 |
| Apprch \% | 38.9 | 0.0 | 61.1 |  | 0.0 | 89.5 | 10.5 |  | 0.0 | 0.0 | 0.0 |  | 10.3 | 89.7 | 0.0 |  |  |
| Totat \% | 14.9 | 0.0 | 234 | 38.3 | 0.0 | 33.0 | 3.9 | 36.9 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 22.3 | 0.0 | 24.9 |  |


|  | NET-75 OFF RAMP Southbound |  |  |  | CR 41 <br> Westbound |  |  |  | Norhbound |  |  |  | CR4 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Tme | Let | Tru | Right | $\xrightarrow{\text { Pob }}$ | Cent | trua | Rignt | $\begin{aligned} & \mathrm{AgF}, \\ & \mathrm{Totasi} \end{aligned}$ | ${ }^{\text {Let }}$ : | Thru | Rignt | $\begin{aligned} & \text { spp: } \\ & \text { Total } \end{aligned}$ | Len | Tma ! | Rignt | ${ }_{\text {Ropla }}^{\text {Rop }}$ | int Totat |
|  Intersection 07:15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volurne | 34 | 0 | 43 | 77 | 0 | 147 | 13 | 160 | 0 | 0 | 0 | 0 | 13 | 123 | 0 | 136 | 373 |
| Percent | 44.2 | 0.0 | 55.8 |  | 0.0 | 91.9 | 8.1 |  | 0.0 | 0.0 | 0.0 |  | 9.6 | 90.4 | 0.0 |  |  |
| Volume | 34 | 0 | 43 | 77 | 0 | 147 | 13 | 160 | 0 | 0 | 0 | 0 | 13 | 123 | 0 | 136 | 373 |
| Volume | 16 | 0 | 13 | 29 | 0 | 41 | 4 | 45 | 0 | 0 | 0 | 0 | 4 | 39 | 0 | 43 | 117 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0797 |
| High int. | 07:30 |  |  |  | 07:15 |  |  |  | 5:45:00 |  |  |  | 07:30 |  |  |  |  |
| Volume | 16 | 0 | 13 | 29 | 0 | 43 | 3 | 46 | 0 | 0 | 0 | 0 - | 4 | 39 | 0 | 43 |  |
| Peak Factor |  |  |  | $0.664{ }^{\text {' }}$ |  |  |  | 0.870 |  |  |  |  |  |  |  | 0.791 |  |

Bayside tngineering, Inc.
1105 East Twiggs Street
Tampa, FL 33602
File Name : NB :-75 Ramps (0) CR 41 Site Code :00000000 Start Date : 03/15/2005 Page No : 2

|  | NETF5OFF RAMPSouthbound |  |  |  | CR 41 Westbound |  |  |  | Northbound |  |  |  | CR4Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $5 \tan$ Toma | Lon | Tru | Rigr | $\xrightarrow{\text { fobe }}$ Torat | Left | Tras | Frich | $\underset{\mathrm{Tocal}}{\mathrm{Abp}}$ | 2明 | Tros | Rash | $\begin{aligned} & \text { Kpop, } \\ & \text { Totai } \end{aligned}$ | Lent | Thro | Right | $\begin{aligned} & \mathrm{ADD} \\ & \text { Tola: } \end{aligned}$ | 1 ta Totar |
| FEak hour From buw reas-reak ch <br> Intersection 16:15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 101 | 0 | 184 | 285 | 0 | 159 | 22 | 181 | 0 | 0 | 0 | 0 | 13 | 136 | 0 | 149 |  |
| Percent | 35.4 | 0.0 | 64.6 |  | 0.0 | 87.8 | 12.2 |  | 0.0 | 0.0 | 0.0 |  | 8.7 | 91.3 | 0.0 |  |  |
| Volume | 101 | 0 | 184 | 285 | 0 | 159 | 22 | 181 | 0 | 0 | 0 | 0 | 13 | 136 | 0 | 149 | 615 |
| Volume | 25 | 0 | 51 | 76 | 0 | 44 | 5 | 49 | 0 | 0 | 0 | 0 | 1 | 42 | 0 | 43 | 168 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.915 |
| High int. | 17:00 |  |  |  | 17.00 |  |  |  |  |  |  |  | 16:15 |  |  |  |  |
| Volume | 31 | 0 | 46 | 77 | 0 | 49 | 6 | 55 | 0 | 0 | 0 | 0 | 4 | 43 | 0 | 47 |  |
| Peak Factor |  |  |  | 0.925 |  |  |  | 0.823 ? |  |  |  |  |  |  |  | 0.793 |  |

BAYSIDE ENGINEERING INC.

PEDESTRIAN MOVEMENT SUMMARY


BAYSIDE ENGINEERING INC.
BICYCLE MOVEMENT SUMMARY

Section $\qquad$
Milepost: : $\frac{6: 00-9.00 \mathrm{Am}}{4.00-7.00 \mathrm{Pm}}$ State Road: $\frac{S B \text { I-75 RampS city: Ridge Manor }}{S R 50}$ Time Pernods:


Completed By, $\qquad$ Date: $\qquad$

SR 50



Bayside Engineering. inc.
1105 East Twiggs Street

Counted by : Ron / Ryan
Board \# : 1320/1321
Weather : coof $/$ rainy

File Name: SB:-75 Ramps @ SR 50 Site Code :00000000 Start Date: 03/16/2005 Page No : 1

Groups Printed- Passenger Vehicles

|  | SET-750FF RAMP Southbound |  |  |  | SR 50 <br> Westbound |  |  |  | Northbound |  |  |  | SR50Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stert Tine | Len | moul | Fignt | $\begin{aligned} & \text { xpp } \\ & \text { Tatai } \end{aligned}$ | Len | Thrs | Right | $\begin{aligned} & \text { RgD } \\ & \text { Total } \end{aligned}$ | Len | Thru | Fighe | $\begin{aligned} & \text { Top. } \\ & \text { Totat } \end{aligned}$ | Lent | Thou 1 | Right | $\begin{aligned} & \mathrm{App} \\ & \text { Fetai } \end{aligned}$ | If Totat |
| redor | T1 | 0 | $\square$ |  | 71 | $1{ }^{1}$ | ग! |  | 10 | T | 10! |  | 101 | 101 | T0 |  |  |
| 06:T0 | 6 | 0 | 17 | 23 | 45 | 67 | 0 | 112 | U | 0 | 0 | 01 | 0 | 65 | 24 | 93 | 228 |
| 06:15 | 11 | 0 | 21 | 32 | 41 | 75 | 0 | 116 | 0 | 0 | 0 | 0 | 0 | 91 | 24 | 115 | 263 |
| 06:30 | 15 | 0 | 26 | 41 | 34 | 108 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 92 | 27 | 119 | 302 |
| 06:45 | 14 | 0 | 18 | 32 | 33 | 91 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 109 | 21 | 130 | 286 |
| Tolal | 45 | 0 | 82 | 128 | 153 | 341 | 0 | 494 | 0 | U | 0 | 01 | 0 | 361 | 95 | 456 | 1079 |
| $07: 00$ | 10 | $i$ | 26 | 37 | 37 | 98 | 0 | 135 | 0 | 0 | 0 | 0 | 0 | 101 | 12 | 113 | 285 |
| 07:15 | 13 | 0 | 22 | 35 | 45 | 116 | 0 | 161 | 0 | 0 | 0 | 0 | 0 | 127 | 27 | 154 | 350 |
| 07.30 | 16 | 0 | 17 | 33 | 26 | 125 | 0 | 151 | 0 | 0 | 0 | 0 ! | 0 | 129 | 17 | 146 | 330 |
| 07:45 | 8 | 0 | 18 | 26 | 34 | 114 | 0 | 148 | 0 | 0 | 0 | 01 | 0 | 113 | 20 | 133 | 307 |
| TOLT | 4 | T | 83 | 131 | 142 | 453 | 0 | 5951 | 0 | U | 0 | 01 | U | 470 | 76 | 546 | 1272 |
| 08:00 | 13 | 0 | 29 | 42 | 31 | 100 | 0 | 131 : | 0 | 0 | 0 | 0 | 0 | 121 | 12 | 133 | 306 |
| 08:15 | 17 | 0 | 8 | 25 | 19 | 107 | 0 | 126 | 0 | 0 | 0 | 0 | 0 | 128 | 24 | 152 | 303 |
| 08:30 | 11 | 0 | 23 | 34 | 29 | 109 | 0 | 138 | 0 | 0 | 0 | 0 | 0 | 138 | 22 | 160 | 332 |
| 08.45 | 9 | 0 | 26 | 35 | 46 | 120 | 0 | 166 | 0 | 0 | 0 | 0 | 0 | 140 | 19 | 159 | 360 |
| Totat | 50 | 0 | 86 | 1361 | 725 | 436 | 0 | 567 | J | $\square$ | V | 0 | 0 | 527 | 77 | 604 | 1307 |


| 16.00 | 21 | 0 | 45 | 661 | 23 | 134 | 0 | 157 | 0 | 0 | 0 | 0 | 0 | 191 | 37 | 228 | 451 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16:15 | 19 | 0 | 38 | 57 | 30 | 144 | 0 | \$74 | 0 | 0 | 0 | $0 \cdot$ | 0 | 177 | 33 | 210 | 441 |
| 16:30 | 26 | 0 | 39 | 65 | 26 | 145 | 0 | 171 | 0 | 0 | 0 | 0 : | 0 | 159 | 23 | 182 | 418 |
| 16.45 | 20 | 0 | 28 | 48 | 24 | 135 | 0 | 159 | 0 | 0 | 0 | 0 : | 0 | 161 | 20 | 181 | 388 |
| Total | 86 | 0 | 150 | 236 | 103 | 558 | 0 | 6ET! | 0 | 0 | 0 | 0 | 0 | 588 | 13 | 801 | 7698 |
| 17:00 | 27 | 0 | 41 | 68 | 32 | 138 | 0 | 170 | 0 | 0 | 0 | 01 | 0 | 116 | 20 | 136 | 374 |
| 17.15 | 19 | 0 | 48 | 67 | 30 | 156 | 0 | 186 | 0 | 0 | 0 | $0!$ | 0 | 145 | 28 | 173 ! | 426 |
| 17.30 | 24 | 0 | 40 | 64 | 27 | 135 | 0 | 162 ! | 0 | 0 | 0 | $0!$ | 0 | 166 | 17 | 183 | 409 |
| 17:45 | 16 | 0 | 38 | 54 | 32 | 118 | 0 | 150 \% | 0 | 0 | 0 | 0 \% | 0 | 115 | 25 | 140 | 34.4 |
| Totat | 85 | 0 | 167 | 2531 | 121 | 541 | 0 | 6681 | 0 | 0 | U | T | U | 542 | प0 | 632 | 1553 |
| 18.00 | 15 | 0 | 26 | 41 | 28 | 124 | 0 | 152 | 0 | 0 | 0 | 01 | 0 | 130 | 20 | 150 : | 343 |
| 18:15 | 13 | 0 | 22 | 35 | 15 | 104 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 103 | 12 | 115 | 269 |
| 18:30 | 8 | 0 | 28 | 36 | 23 | 87 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 88 | 17 | 105 | 251 |
| 18:45 | 14 | 0 | 22 | 36 | 23 | 121 | 0 | 144 ? | 0 | 0 | 0 | $0!$ | 0 | 67 | 8 | 75 | 255 |
| Total | 50 | 0 | 98 | 148 | प5 | 436 | 0 | 525 | U | 0 | 0 | U | 0 | 388 | 57 | 445 | 117 |
| Grand Total | 365 | 1 | 666 | 10321 | 733 | 2771 | 0 | 3504 | 0 | 0 | 0 | 01 | 0 | 2976 | 509 | 3485 | 8021 |
| Apprch \% | 35.4 | 0.1 | 64.5 |  | 20.9 | 79.1 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 85.4 | 14.6 |  |  |
| Total \% | 4.6 | 0.0 | 8.3 | 12.9 | 9.1 | 345 | 0.0 | 43.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37.1 | 6.3 | 43.4 |  |


|  | Sसा.न50FF RAMP Southbound |  |  |  | SR 50 Westbound |  |  |  | Norihbound |  |  |  | SR 50Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan Teme | Len | Truy | Rign! | $\begin{array}{l\|} \text { Xop } \\ \text { Total } \end{array}$ | tett | Thas | Rign ! | ${ }_{\text {actal }}^{\text {acha }}$ | Lent | Tom! | Right | $\begin{aligned} & \text { Xep } \\ & \text { icoal } \end{aligned}$ | L.et | Trua | Figh | ${ }_{\text {Tctal }}^{\text {Tatal }}$ | In: Tctat |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersection | 08:00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 50 | 0 | 86 | 136 | 125 | 436 | 0 | $561:$ | 0 | 0 | 0 | 0 | 0 | 527 | 77 | 604 | 1301 |
| Percent | 36.8 | 0.0 | 63.2 |  | 22.3 | 77.7 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 87.3 | 12.7 |  |  |
| Volume | 50 | 0 | 86 | 136 | 125 | 436 | 0 | 561 | 0 | 0 | 0 | 0 | 0 | 527 | 77 | 604 | 1301 |
| Volume | 9 | 0 | 25 | 35 | 46 | 120 | 0 | 166 | 0 | 0 | 0 | 0 | 0 | 140 | 19 | 159 | 360 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.903 |
| High int. | 08.00 |  |  |  | 08:45 |  |  |  | 5.45 .00 |  |  |  | 08:30 |  |  |  |  |
| Volume | 13 | 0 | 29 | 42 | 46 | 120 | 0 | 166 | 0 | 0 | 0 | 0 | 0 | 138 | 22 | 160 |  |
| Peak Factor |  |  |  | 0.810 |  |  |  | 0.845 |  |  |  |  |  |  |  | 0.944 |  |

Bayside Engineering, Inc. 1105 East Twiggs Street Tampa, FL 33602

File Name : SE 1-75 Ramps @ SR 50 Site Code : 00000000 Start Date: 03/162005 Page No : 2

|  | SBT-75 OFF RAMPSouthbound |  |  |  | SR 50 Westbound |  |  |  | Nonhbound |  |  | SR 50 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Let | thow | Figrt |  | L.ent | Thea | Rigm | $\begin{aligned} & \text { Rep, } \\ & \text { Total } \end{aligned}$ | Left | Tru | Rima | Sopial | Lef | 7 mu | Aignt | Reat | tor rotat |
|  Intersection 16:00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Votume | 86 | 0 | 150 | 236 | 103 | 558 | 0 | 661 | 0 | 0 | 0 | 0 | 0 | 688 | 113 | 801 | 698 |
| Percent | 36.4 | 0.0 | 63.6 |  | 15.6 | 84.4 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 85.9 | 14.1 |  |  |
| Volume | 86 | 0 | 150 | 236 | 103 | 558 | 0 | 661 | 0 | 0 | 0 | 0 | 0 | 688 | 113 | 801 | 1698 |
| Volume | 21 | 0 | 45 | 66 | 23 | 134 | 0 | 157 | 0 | 0 | 0 | 0 | 0 | 191 | 37 | 228 | 451 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.941 |
| High Int. | 10.00 |  |  |  | 16:15 |  |  |  |  |  |  |  | 16:00 |  |  |  |  |
| Volume | 21 | 0 | 45 | 65 | 30 | 144 | 0 | 174 | 0 | 0 | 0 | 0 | 0 | 191 | 37 | 228 |  |
| Peak Factor |  |  |  | 0.894 |  |  |  | 0.950 |  |  |  |  |  |  |  | 0.878 |  |

Bayside Engineering, Inc.
1105 East Twiggs Street

Counted by: Ron/Ryan
Board\# : 1320/1321
Weather : cool/tany

File Name : S8 $1-75$ Ramps @ SR 50 Site Code :00000000
Start Date: 03/16/2005
Page No

Groups Printed-Trucks \& Buses

|  | SBT.75 OFF RAMP <br> Southbound |  |  |  | SR 50 Westbound |  |  |  | Nortibound |  |  |  | SR 50Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Slant Tine | Len | Tir | Fing: | Total | Len | Thru | Riogal | $\begin{aligned} & \mathrm{ADO} \\ & \text { Total } \end{aligned}$ | Len | Tras | Rigra |  | Lef | Tru | Right | Top, | In Totat |
| Facori | 10: | 70 | T0: |  | 1.0 | 0 | 101 |  | 10 | 1 | 101 |  |  | 10 |  |  |  |
| 165:00 | 2 | 0 | 3 | 5 | 4 | 8 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 21 | 10 | 31 | 48 |
| 06:15 | 5 | 0 | 1 | 6 | 3 | 17 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 33 | 7 | 40 | 66 |
| 06:30 | 2 | 0 | 9 | 11 | 7 | 25 | 0 | 32 | 0 | 0 | , | 0 | 0 | 33 | 8 | 41 | 84 |
| 06:45 | 14 | 0 | 4 | 18 | 5 | 20 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 26 | 7 | 33 | 76 |
| Tota | 23 | 0 | 77 | 40 | 19 | 70 | 0 | 85 | 0 | 0 | 0 | 0 | 6 | 113 | 32 | 145 | 274 |


| 07:00 | 5 | 0 | 7 | 12 ; | 5 | 37 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 22 | 4 | 26 | 80 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 | 8 | 0 | 4 | 12 | 13 | 21 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 21 | 3 | 24 | 70 |
| 07:30 | 7 | 0 | 8 | 15 | 7 | 25 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 30 | 10 | 40 | 87 |
| 07:45 | 5 | 0 | 12 | 17 | 4 | 26 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 36 | 2 | 38 | 85 |
| Total | 25 | 0 | 3 | 56 | 29 | 105 | 0 | 138 | U | 0 | 0 | 0 | 0 | 109 | 15 | 128 | 322 |
| 08:00 | 13 | 0 | 6 | 19 : | 11 | 23 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 33 | 7 | 40 : | 93 |
| 08:15 | 4 | 0 | 12 | 16 | 8 | 32 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 36 | 10 | 46 | 102 |
| 08:30 | 6 | 0 | 10 | 16 | 11 | 28 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 29 | 5 | 34 | 89 |
| 08:45 | 4 | 0 | 8 | 12 | 4 | 33 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 25 | 3 | 28 | 77 |
| Total | 27 | 0 | 35 | 33 | 34 | 116 | 0 | 150 | U | 0 | 0 | 0 | 0 | 123 | 25 | $148:$ | 361 |


| $16: 00$ | 10 | 0 | 6 | 16 | 5 | 28 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 27 | 5 | 32 | 81 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16:15 | 4 | 0 | 5 | 9 | 1 | 21 | 0 | 22 | 0 | 0 | 0 | 0 : | 0 | 10 | 5 | 15 : | 46 |
| 16:30 | 3 | 0 | 2 | 5 | 4 | 25 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 13 | 3 | 16 | 50 |
| 16:45 | 2 | 0 | 2 | 4 | 6 | 8 | 0 | 14 | 0 | 0 | 0 | 01 | 0 | 12 | 2 | 14 | 32 |
| Total | 15 | 0 | 15 | 34 | 15 | 82 | 0 | 58: | 0 | 0 | 0 | 01 | 0 | 62 | 15 | 77 | 209 |
| 17.00 | 3 | 0 | 1 | 4 | 2 | 11 | 0 | 13. | 0 | 0 | 0 | 0 | 0 | 16 | 2 | 18 | 35 |
| 17:15 | 6 | 1 | 1 | $\theta$ | 8 | 6 | 0 | 14: | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 12 | 34 |
| 17:30 | 7 | 0 | 1 | \% | 4 | 13 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 12 | 37 |
| 17:45 | 2 | 0 | 5 | 7 | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 10 ! | 23 |
| Tolal | 18 | 1 | 8 | 27 | 14 | 36 | 0 | 50. | 0 | 0 | 0 | 0 | 0 | 42 | T0 | 52 | 129 |
| 18:00 | 8 | 0 | 4 | 12 | 6 | 8 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 8 | 34 |
| 18:15 | 8 | 0 | 0 | 8 | 3 | 7 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 22 |
| 18:30 | 12 | 0 | 1 | $13!$ | 5 | 3 | 0 | 8 : | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 5 | 26 |
| 18:45 | 9 | 0 | 0 | 9 | 2 | 7 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 6 | 24 |
| Total | 37 | 0 | 5 | 42 | 16 | 25 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 12 | 11 | 231 | 106 |
| Grand Total | 149 | 1 | 112 | 262 | 128 | 438 | 0 | $566:$ | 0 | 0 | 0 | 01 | 0 | 461 | 112 | 573 ; | 1401 |
| Apprch \% | 56.9 | 0.4 | 42.7 |  | 22.6 | 774 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 80.5 | 19.5 |  |  |
| Total \% | 10.6 | 0.1 | 8.0 | 18.7 | 9.1 | 31.3 | 0.0 | 40.4 | 0.0 | 0.0 | 0.0 | 0.0 : | 0.0 | 32.9 | 8.0 | 40.9 |  |


|  | SETF 50 FF RAMF Southbound |  |  |  | $5 R 50$ Westbound |  |  |  | Northbound |  |  |  | SR 50 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan Tinst | Leth | nou | Right | $\begin{gathered} \text { Rop } \\ \text { Total } \end{gathered}$ | Lett | Thas! | Fight | Tref | Len | theo 1 | Rignt | $\begin{aligned} & \text { Acoc } \\ & \text { Totait } \end{aligned}$ |  |  |  | roct | int. Totai |
|  Intersection 07.45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 28 | 0 | 40 | 58 | 34 | 109 | 0 | 143 | 0 | 0 | 0 | 0 | 0 | 134 | 24 | 158 | 369 |
| Percent | 41.2 | 0.0 | 58.8 |  | 23.8 | 76.2 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 84.8 | 15.2 |  |  |
| Volume | 28 | 0 | 40 | 68 | 34 | 109 | 0 | 143 | 0 | 0 | 0 | 0 | 0 | 134 | 24 | 158 | 369 |
| Volume | 4 | 0 | 12 | 16 | 8 | 32 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 36 | 10 | 46 | 102 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.004 |
| High int. | 08:00 |  |  |  | 08:15 |  |  |  | 5.45:00 |  |  |  | 08:15 |  |  |  |  |
| Volume | 13 | 0 | 6 | 19 | - | 32 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 36 | 10 | 46 |  |
| Peak Factor |  |  |  | 0.895 ! |  |  |  | 0.894 |  |  |  |  |  |  |  | 0.859 |  |

Bayside Engineering, Inc. 1105 East Twiggs Street Tampa. FL 33602

File Name
SE1-75 Ramps@SR50 Site Code 00000000 Star Date : 03/162005 Page No :2

|  | SET. 75 OFF RAMP <br> Southbound |  |  |  | SR 50 Westbound |  |  |  | Northbound |  |  |  | $\begin{aligned} & \text { SR } 50 \\ & \text { Eastbound } \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Tmm | LeH | 7 me | Firgh | Tosial | Let | Itru | Rignt | $\begin{aligned} & \mathrm{R}_{\mathrm{fpp}} \\ & \text { Tolat } \end{aligned}$ | Let ! | Trua | Rigra | $\begin{aligned} & \text { ADP. } \\ & \text { Total } \end{aligned}$ | Leh | Thu! | Right | Total | n. Total |
|  intersection $16: 00$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 19 | 0 | 15 | 34 | 16 | 82 | 0 | 98 ! | 0 | 0 | 0 | 0 | 0 | 62 | 15 | 77 | 209 |
| Percent | 55.9 | 0.0 | 44.1 |  | 16.3 | 83.7 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 80.5 | 19.5 |  |  |
| Volume | 19 | 0 | 15 | 34 | 16 | 82 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 62 | 15 | 77 | 209 |
| Volume | 10 | 0 | 6 | 16 | 5 | 28 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 27 | 5 | 32 | 81 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.645 |
| High int. | 16:00 |  |  |  | 16:00 |  |  |  |  |  |  |  | 16:00 |  |  |  |  |
| Voiume | 10 | 0 | 6 | 16 | 5 | 28 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 27 | 5 | 32 |  |
| Peak Factor |  |  |  | 0531 |  |  |  | 0.742 |  |  |  |  |  |  |  | 0.602 |  |

Bayside Engineering, Inc. 1105 East Twiggs Street Tampa. FL 33602

## Counted by: Ron/Ryan <br> Board\# : 1320/1321

Weather : cool/rainy

File Name: SB 1-75Ramps@SR 50 Ste Code :00000000
Stan Date : 03/16/2005
Page No
: 1

Groups Printed- U-Turns


File Name: SB 1-75 Ramps@SR 50 Site Code : 00000000 Star Date: 03/16/2005 Page No : 2

|  | SETF75 OFF RAMF Southbound <br> Southbound |  |  |  | SF 50 Westbound |  |  |  | Northbound |  |  |  | SR 50 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stant Time | Len: | Thrs | Rigra | ${ }_{\substack{\text { Appp } \\ \text { Tolal }}}$ | Left | Tin | Rignt | $\begin{aligned} & \text { Apor in } \\ & \text { Total } \end{aligned}$ | Let | Tru: | Fipre | ${ }_{\text {Apo }}^{\text {teata }}$ | Le\% | Tros | Right | totat | :ta Tolat |
| реतx सot From ह6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersection | 16:00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 3 |
| Percent | 0.0 | 0.0 | 0.0 |  | 100. | 0.0 | 0.0 |  | 0.0 | 0.0 | 0.0 | + | 0.0 | 0.0 | 0.0 |  |  |
| Volume | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Volume | 0 | 0 | 0 | 01 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  | - |  |  |  |  | 0.750 |
| High Int. |  |  |  |  | 16:00 |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 01 | 1 | 0 | 0 | 11 |  |  |  |  |  |  |  |  |  |
| Peak Factor |  |  |  |  |  |  |  | 0.750 |  |  |  |  |  |  |  |  |  |

Counted by : Ron/Ryan
Boardi\# : 1320/1321
Weather cool/rainy

Bayside Engineering, Inc.
1105 East Twiggs Street
Tampa, FL 33602

File Name: SE1-75 Ramps @ SR 50 Site Code : 00000000 Stan Date: 03/16/2005 Page No

Groups Printed- Passenger Vehicles - Trucks \& Buses - U-Turns

|  | SBT-75 OFF RAMF Southbound |  |  |  | SR 50 <br> Westbound |  |  |  | Northbound |  |  |  | SR 50 Easthound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 San Tinte | Left | Trua | Right | $\begin{aligned} & \text { ADP } \\ & \text { Total } \end{aligned}$ | teft | Thre ! | Right |  | Let | Thes | Rigrt | $\begin{aligned} & \text { App, } \\ & \text { Total } \end{aligned}$ | Lett | Trus | Rignt | $\begin{aligned} & \text { Repp. } \\ & \text { Fotal } \end{aligned}$ | in To:at |
| Facor: | T3 | T0: | Toi |  | 10. | 10 | Ti |  | 101 | 101 | 101 |  | T1 | 1.0 | T |  |  |
| DE:T0 | 8 | 0 | 20 | 28 | 49 | 75 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 90 | 34 | 124 | 276 |
| 06:15 | 16 | 0 | 22 | 38 | 44 | 92 | 0 | 136 | 0 | 0 | 0 | 0 | 0 | 124 | 31 | 155 | 329 |
| 06:30 | 17 | 0 | 35 | 52 | 42 | 133 | 0 | 175 | 0 | 0 | 0 | 0 | 0 | 125 | 35 | 160 | 387 |
| 06:45 | 28 | 0 | 22 | 50 | 38 | 111 | 0 | 149 | 0 | 0 | 0 | 0 | 0 | 135 | 28 | 163 | 362 |
| Total | 69 | 0 | 99 | 168 | $1 / 3$ | 41 | T | 584 | 0 | 0 | 0 | 0 | 0 | 474 | 128 | 602 | 1354 |


| 07:00 | 15 | 1 | 33 | 491 | 42 | 135 | 0 | 177 | 0 | 0 | 0 | 01 | 1 | 123 | 16 | 140! | 366 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 | 21 | 0 | 26 | 47 | 58 | 137 | 0 | 195 | 0 | 0 | 0 | 0 | 0 | 148 | 30 | 178 | 420 |
| 07:30 | 23 | 0 | 25 | 48 | 34 | 150 | 0 | 184 | 0 | 0 | 0 | 0 | 0 | 159 | 27 | 186 | 418 |
| 07:45 | 13 | 0 | 30 | 43 | 39 | 140 | 0 | 179 | 0 | 0 | 0 | 0 | 0 | 149 | 22 | 171 | 393 |
| Total | 72 | T | 174 | 187 | 173 | 562 | 0 | 735 ; | 0 | 0 | U | 0 | 1 | 579 | 95 | 675 | 1597 |
| 08:00 | 26 | 0 | 35 | 61 | 42 | 123 | 0 | 165 | 0 | 0 | 0 | 0 | 0 | 154 | 19 | 173 ! | 399 |
| 08:15 | 21 | 0 | 20 | 41 | 28 | 139 | 0 | 167 | 0 | 0 | 0 | 0 | 0 | 164 | 34 | 198 | 406 |
| 08:30 | 17 | 0 | 33 | 50 | 40 | 137 | 0 | 177 | 0 | 0 | 0 | 0 | 0 | 167 | 27 | 194 | 421 |
| 08:45 | 13 | 0 | 34 | 47 | 50 | 153 | 0 | 203 | 0 | 0 | 0 | 0 | 0 | 165 | 22 | 187 | 437 |
| Tatal | 71 | U | 122 | 189 | 160 | 552 | 0 | 712 | U | 0 | U | 0 | 0 | 650 | 102 | 752 | 1563 |


| 16:00 | 31 | 0 | 51 | 82 | 29 | 162 | 0 | 191 | 0 | 0 | 0 | 0 | 0 | 218 | 42 | 260 | 533 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16:15 | 23 | 0 | 43 | 68 | 32 | 165 | 0 | 197 | 0 | 0 | 0 | 0 | 0 | 187 | 38 | 225 | 488 |
| 16:30 | 29 | 0 | 41 | 70 | 30 | 170 | 0 | 200 | 0 | 0 | 0 | 0 : | 0 | 172 | 26 | 198 | 468 |
| 16:45 | 22 | 0 | 30 | 52 | 31 | 143 | 0 | 174 | 0 | 0 | 0 | 0 | 0 | 173 | 22 | 195 | 421 |
| Total | 705 | 0 | 165 | 270 | 122 | 640 | 0 | 7621 | 0 | 0 | 0 | 0 | 0 | 750 | 128 | B7E: | 1970 |
| 17:00 | 30 | 0 | 42 | 72 | 35 | 149 | 0 | 184 | 0 | 0 | 0 | 01 | 0 | 132 | 22 | 154: | 410 |
| 17:15 | 25 | 1 | 49 | 75 | 38 | 162 | 0 | 200 | 0 | 0 | 0 | 0 | 0 | 155 | 30 | 185 : | 460 |
| 17:30 | 31 | 0 | 41 | 72 | 31 | 148 | 0 | 179 | 0 | 0 | 0 | 0 | 0 | 175 | 20 | 195 | 446 |
| 17.45 | 18 | 0 | 43 | 61 | 32 | 124 | 0 | 156 | 0 | 0 | 0 | 0 : | 0 | 122 | 28 | 150 | 367 |
| Total | T04 | 1 | 175 | 280 | 136 | 583 | 0 | 719 | U | 0 | 0 | 0 | 0 | 584 | 100 | 584 | 1683 |
| 18:00 | 23 | 0 | 30 | 53 | 34 | 132 | 0 | 166 | 0 | 0 | 0 | 0 | 0 | 134 | 24 | 158 | 377 |
| 18:15 | 21 | 0 | 22 | 43 | 18 | 111 | 0 | 129 | 0 | 0 | 0 | 0 | 0 | 105 | 14 | 119 | 291 |
| 18:30 | 20 | 0 | 29 | 49 | 29 | 90 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 91 | 19 | 110 | 278 |
| 18:45 | 23 | 0 | 22 | 45 | 26 | 128 | 0 | 154 | 0 | 0 | 0 | 0 | 1 | 70 | 11 | 82 | 281 |
| गुal | 87 | J | 103 | 150: | 107 | $46!$ | 0 | 5581 | 0 | 0 | 0 | 0 | T | 400 | 68 | 465 | 1227 |
| Grand Total | 514 | 2 | 778 | 1294 | 871 | 3209 | 0 | $4080 \cdot$ | 0 | 0 | 0 | 0 | 2 | 3437 | 621 | 4060 | 9434 |
| Appreh \% | 39.7 | 0.2 | 60.1 |  | 21.3 | 78.7 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 847 | 15.3 |  |  |
| Total \% | 5.4 | 0.0 | 8.2 | 13.7 | 9.2 | 34.0 | 0.0 | 43.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 364 | 6.6 | 43.0 |  |


|  | 5BT75 CFFRAMP <br> Southbound |  |  |  | $\begin{gathered} \text { SR } 50 \\ \text { Westbound } \end{gathered}$ |  |  |  | Northbound |  |  |  | SR 50 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stant Tirme | Lnit | Thr | Repre | $\begin{aligned} & \text { xppit } \\ & \text { Totail } \end{aligned}$ | Ler | Ther: | Rogm | $\begin{gathered} \text { Rop } \\ \text { Tol\| } \end{gathered}$ | Loth | Thes | Fight | $\begin{array}{ll} \text { Sop } \\ \text { Tolas } \end{array}$ | Lat ! | True | Rign | ${ }_{\text {Sopat }}$ | trit Totat |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 77 | 0 | 122 | 199 | 160 | 552 | 0 | 712 | 0 | 0 | 0 | $0!$ | 0 | 650 | 102 | 752 | 1663 |
| Percent | 38.7 | 0.0 | 61.3 |  | 22.5 | 77.5 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 86.4 | 13.6 |  |  |
| Volume | 77 | 0 | 122 | 199 | 160 | 552 | 0 | 712 | 0 | 0 | 0 | 0 | 0 | 650 | 102 | 752 | 1663 |
| Volume | 13 | 0 | 34 | 47 | 50 | 153 | 0 | 203 | 0 | 0 | 0 | 0 | 0 | 165 | 22 | 187 | 437 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.951 |
| High int. | 08:00 |  |  |  | 08:45 |  |  |  | 5:45:00 |  |  |  | 08:15 |  |  |  |  |
| Volume | 26 | 0 | 35 | 61 | 50 | 153 | 0 |  | 0 | 0 | 0 | 0 | 0 | 164 | 34 | 198 |  |
| Peak Factor |  |  |  | 0.816 |  |  |  | $0.877$ |  |  |  |  |  |  |  | 0.949 |  |

File Name: SB 1-75 Ramps @ SR 50 Site Code : 00000000 Start Date : 03/16/2005
Page No :

|  | SBT-75 OFFRARMPSouthbound |  |  |  | SR 50 Westbound |  |  |  | Northbound |  |  |  | SR 50Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Slant rme | ten | Tras | Fign: | ${ }_{\text {Potat }}^{\text {Rop }}$ | Leta | Trua | Rign | $\begin{aligned} & \mathrm{Lbpl} \mid \\ & \text { Total } \end{aligned}$ | Let | nim | Rigrt | ADP. <br> fotal | Left: | man: | Rignt | $\begin{aligned} & \text { Rop } \\ & \text { rorat } \end{aligned}$ | the. Total |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 105 | 0 | 165 | 270 | 122 | 640 | 0 | 762 | 0 | 0 | 0 | 0 | 0 | 750 | 128 | 878 | 1910 |
| Percent | 38.9 | 0.0 | 61.1 |  | 16.0 | 84.0 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 85.4 | 14.6 |  |  |
| Volume | 105 | 0 | 165 | 270 | 122 | 640 | 0 | 762 | 0 | 0 | 0 | 0 | 0 | 750 | 128 | 878 | 1910 |
| Volume | 31 | 0 | 51 | 82 | 29 | 162 | 0 | 191 | 0 | 0 | 0 | 0 | 0 | 218 | 42 | 260 | 533 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.896 |
| High Int. | 16.00 |  |  |  | 16:30 |  |  |  |  |  |  |  | 16:00 |  |  |  |  |
| Volume | 31 | 0 | 51 | 82 | 30 | 170 | 0 | 200 | 0 | 0 | 0 | 0 | 0 | 218 | 42 | 260 |  |
| Peak Factor |  |  |  | 0.823 |  |  |  | 0.953 |  |  |  |  |  |  |  | 0844 |  |



## BAYSIDE ENGINEERING INC.

BICYCLE MOVEMENT SUMMARY


Bayside Engineering, inc.
1105 East Twiggs Street Tampa. FL 33602

Counted by : Ron / Ryan Board\# : 1320/1321 Weather : cool/rainy

File Name: NB $1-75$ Ramps@ SR 50 Site Code : 00000000 Start Date: 03/17/2005 Page No 1

Groups Printed- Passenger Vehicies

|  | Southbound |  |  |  | $5 R 50$ Westbound |  |  |  | NETन 15 OFF RAMP Northbound |  |  |  | 5R 50 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan Tme | Lett | Trus | Pight | $\begin{gathered} x \operatorname{sop} \\ \operatorname{Totan} \end{gathered}$ | Let | Trus | RigM | $\begin{aligned} & \text { Rep. } \\ & \text { Totas } \end{aligned}$ | Left | Trus | frignt | $\begin{aligned} & \text { Fotp } \\ & \text { Fotat } \end{aligned}$ | Let | TruT | Right | $\begin{aligned} & \text { App. } \\ & \text { rotal }^{2} \end{aligned}$ | Int. Total |
| Facior | T01 | IO | T1 |  | 10 | T0 | 10 |  | ता | 10 | T0 |  | 10 | 10 | 10 |  |  |
| $06: 00$ | 0 | 0 | 0 | 0 | 0 | 73 | 20 | 93 | 10 | 0 | 11 | 21 | 24 | 66 | 0 | 50 | 204 |
| 06:15 | 0 | 0 | 0 | 0 | 0 | 122 | 23 | 145 | 14 | 0 | 19 | 33 | 25 | 87 | 0 | 112 | 290 |
| 06:30 | 0 | 0 | 0 | 0 | 0 | 116 | 31 | 147 | 14 | 0 | 25 | 39 | 34 | 70 | 0 | 104 | 290 |
| 06:45 | 0 | 0 | 0 | 0 | 0 | 97 | 21 | 118 | 10 | 0 | 32 | 42 | 28 | 89 | 0 | 117 | 277 |
| Total | 0 | 0 | 5 | 0 | 0 | 408 | 55 | 503 | 48 | 0 | ह7 | 135 | 11 | 3 C | $\square$ | 423 | 1061 |


| 07.00 | 0 | 0 | 0 | 0 | 0 | 98 | 32 | 130 | 15 | 0 | 41 | 56 | 30 | 82 | 0 | 112 | 298 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 | 0 | 0 | 0 | 0 | 0 | 105 | 36 | 141 | 15 | 0 | 32 | 47 | 30 | 95 | 0 | 125 | 313 |
| 07:30 | 0 | 0 | 0 | 0 | 0 | 139 | 31 | 170 | 9 | 0 | 32 | 41 | 31 | 120 | 0 | 151 | 362 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 143 | 36 | 179 | 24 | 1 | 32 | 57 | 23 | 108 | 0 | 131 | 367 |
| Total | [] | 0 | 0 | 0 | 0 | 485 | 135 | 620 | 63 | 1 | 137 | 201 | 77 | 405 | 0 | 519 | 1380 |


| 08:00 | 0 | 0 | 0 | 0 | 0 | 117 | 29 | 146 | 22 | 0 | 32 | 54 | 28 | 87 | 0 | 115 | 315 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 08:15 | 0 | 0 | 0 | 0 | 0 | 128 | 22 | 150 | 25 | 0 | 39 | 64 | 32 | 99 | 0 | 131 | 345 |
| 0830 | 0 | 0 | 0 | 0 | 0 | 126 | 18 | 144 | 19 | 0 | 43 | 62 | 28 | 104 | 0 | 132 | 338 |
| 08:45 | 0 | 0 | 0 | 0 | 0 | 123 | 33 | 156 | 16 | 0 | 58 | 74 | 26 | 110 | 0 | 136 | 366 |
| Total | 0 | 0 | 0 | $\square$ | 15 | 494 | 102 | 556 | 82 | 0 | 172 | 254 | 114 | 400 | 0 | 514 | 1362 |


| 16.00 | 0 | 0 | 0 | 01 | 0 | 168 | 34 | 202 | 34 | 0 | 50 | 84 | 24 | 179 | 0 | 203 | 489 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 134 | 31 | 165 | 26 | 0 | 47 | 73 | 23 | 152 | 0 | 175 | 413 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 159 | 25 | 184 | 21 | 0 | 65 | 86 | 19 | 168 | 0 | 187 | 457 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 157 | 29 | 186 | 31 | 0 | 51 | 82 | 26 | 137 | 0 | 163 | 431 |
| Tola | 0 | 0 | 0 | $\square$ | 0 | 678 | 119 | 737 ! | 172 | 0 | 213 | 325 | 92 | БЗ6 | $\square$ | 728 | 1790 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 150 | 21 | 171 | 30 | 0 | 60 | 90 | 27 | 138 | 0 | 165 | 426 |
| 17:15 | 0 | 0 | 0 | 0 : | 0 | 132 | 30 | 162 | 23 | 0 | 56 | 79 | 26 | 163 | 0 | 189 | 430 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 155 | 29 | 184 | 19 | 0 | 67 | 86 | 15 | 117 | 0 | 132 | 402 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 136 | 30 | 166 | 23 | 0 | 51 | 74 | 19 | 109 | 0 | 128 | 368 |
| Tolat | 0 | 0 | 0 | O | 0 | 573 | 110 | 683 | 55 | 0 | 234 | 329 | 87 | 527 | 0 | 614 | 1626 |


| 18:00 | 0 | 0 | 0 | 0 | 0 | 119 | 25 | 144 | 23 | 0 | 52 | 75 | 17 | 120 | 0 | 137 | 356 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 18:15 | 0 | 0 | 0 | 0 | 0 | 112 | 21 | 133 | 17 | 0 | 39 | 56 | 13 | 104 | 0 | 117 | 306 |
| 18:30 | 0 | 0 | 0 | 0 | 0 | 143 | 27 | 170 | 16 | 0 | 49 | 65 | 9 | 89 | 0 | 98 | 333 |
| 18:45 | 0 | 0 | 0 | 0 | 0 | 107 | 25 | 132 | 16 | 0 | 56 | 72 | 17 | 105 | 0 | 122 | 326 |
| Total | 0 | 0 | 0 | 0 | U | 481 | पु8 | 579 | 76 | 0 | 196 | 268 | 56 | 478 | 0 | 474 | 1321 |


| Grand Total | 0 | 0 | 0 | 0 | 0 | 3059 | 659 | 3718 | 472 | 1 | 1039 | 1512 | 574 | 2698 | 0 | 3272 | 8502 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Apprch \% | 0.0 | 0.0 | 0.0 |  | 0.0 | 82.3 | 17.7 |  | 31.2 | 0.1 | 68.7 |  | 17.5 | 82.5 | 0.0 |  |  |
| Total \% | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.0 | 7.8 | 43.7 | 5.6 | 0.0 | 12.2 | 17.8 | 6.8 | 31.7 | 0.0 | 38.5 |  |


|  | Southoound |  |  |  | 5 SF 50 Westbound |  |  |  | NETF5 OFF FAMPNorthbound |  |  |  | $\begin{aligned} & \text { SR } 50 \\ & \text { Eastbound } \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sleet Teme | Len | tras | nignt | ${ }_{\text {copa }}^{\text {Acta }}$ | Len | Thos | Figta |  | Let | Tru! | Rigra | Tool ! | Lef | Thre | Prign | tppol | 697 Totat |
|  Intersection 07:30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 527 | 118 | 645 | 80 | $\dagger$ | 135 | 216 | 114 | 414 | 0 | 528 | 1389 |
| Percent | 0.0 | 0.0 | 0.0 |  | 0.0 | 81.7 | 18.3 |  | 37.0 | 0.5 | 62.5 |  | 21.6 | 78.4 | 0.0 |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 527 | 118 | 645 | 80 | 1 | 135 | 216 | 114 | 414 | 0 | 528 | 1389 |
| Volume | 0 | 0 | 0 | 01 | 0 | 143 | 36 | 179 | 24 | 1 | 32 | 57 | 23 | 108 | 0 | 131 | 367 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.946 |
| High lnt. | 5:45:00 |  |  |  | 7.45 |  |  |  | 08:15 |  |  |  | 07:30 |  |  |  |  |
| Volume | 0 | 0 | 0 | $0:$ | 0 | 14.3 | 36 | 179. | 25 | 0 | 39 | 64 | 31 | 120 | 0 | 151 |  |
| Peak Factor |  |  |  |  |  |  |  | 0.001 |  |  |  | 0844 |  |  |  | 0.874 |  |

Bayside Enqineering, Inc 1105 East Twiggs Street

Tampa, FL 33602

Fife Name: NB :-75 Ramps@ SR 50 Site Code : 00000000
Stan Date : 03/17/2005
Page No 2

|  | Southbound |  |  |  | SK 50Westbound |  |  |  | NET. 75 OFFRAMPNonthbound |  |  |  | 5R 50Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stert Time | Leet | Thes | Fight | KCP Totai | Lett | Thus | Right | $\mathrm{SPC}_{\mathrm{Pb}}^{\mathrm{Total}}$ | L.en | Thou | Rignt |  | Lem | tiru | Right | ${ }_{\text {Appe }}^{\text {Aptat }}$ | 1 lm Total |
|  <br> intersection 16:00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 618 | 119 | 737 | 112 | 0 | 213 | 325 | 92 | 636 | 0 | 728 | 1790 |
| Percent | 0.0 | 0.0 | 0.0 |  | 0.0 | 83.9 | 16.1 |  | 34.5 | 0.0 | 65.5 |  | 12.6 | 87.4 | 0.0 |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 818 | 119 | 737 | 112 | 0 | 213 | 325 | 92 | 636 | 0 | 728 | 1790 |
| Volume | 0 | 0 | 0 | 01 | 0 | 168 | 34 | 202 | 34 | 0 | 50 | 34 | 24 | 179 | 0 | 203 | 489 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.915 |
| High Int. |  |  |  |  | 6:00 |  |  |  | 16:30 |  |  |  | 16:00 |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 168 | 34 | 202 | 21 | 0 | 65 | 86 | 24 | 179 | 0 | 203 |  |
| Peak Factor |  |  |  |  |  |  |  | 0.912 |  |  |  | 0.945 |  |  |  | 0.897 |  |

Counted by : Fon/Ryan
Board\# : 1320/1321
Weather cool rainy

Tampa, FL 33602

File Name: NB 1-75Ramps@SR 50 Site Code :00000000
Start Date: 03/17/2005
Page No : 1
Groups Printed- Tucks \& Buses

|  | Southbound |  |  |  | SR 50 Westbound |  |  |  | NET-75 OFF RAMP Northbound |  |  |  | SR 50Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Tome | Let | Tho | Rignt | $\begin{gathered} \mathrm{kbp} \\ \text { ictai } \end{gathered}$ | LeH | Trus | Right | Rob | tent | Trus | Fight | $\begin{aligned} & \text { Rpp } \\ & \text { Trat } \end{aligned}$ | Let | mou | Right | $\begin{aligned} & \text { Rpp, } \\ & \text { ictai } \end{aligned}$ | the Total |
| Fabar | 17 | 101 | T0: |  |  | T | To: |  | T0: | T0 | 10 |  | 0 | T | ro: |  |  |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 12 | T | $13!$ | 2 | 0 | 4 | b; | 2 | 20 | 0 | 22 | 41 |
| 06:15 | 0 | 0 | 0 | 0 | 0 | 14 | 7 | 21 | 4 | 0 | 5 | 9 | 10 | 28 | 0 | 38 | 68 |
| 06:30 | 0 | 0 | 0 | 0 | 0 | 9 | 2 | 11 ! | 6 | 0 | 4 | 10 | 6 | 28 | 0 | 34 | 55 |
| 06:45 | 0 | 0 | 0 | 0 | 0 | 20 | 7 | 27 : | 5 | 0 | 6 | 11 | 12 | 36 | 0 | 48 | 86 |
| Total | 0 | 0 | 0 | 0 | 0 | 55 | 17 | 72 ! | 17 | 0 | 19 | 36 | 30 | 112 | 0 | 142 | 250 |


| 07:00 | 0 | 0 | 0 | 0 | 0 | 14 | 3 | 17 | 4 | 0 | 7 | 11 | 4 | 27 | 0 | 31 | 59 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 | 0 | 0 | 0 | 0 | 0 | 21 | 4 | 25 | 10 | 0 | 5 | 15 | 6 | 28 | 0 | 34 | 74 |
| 07:30 | 0 | 0 | 0 | 0 | 0 | 35 | 2 | 37 | 9 | 0 | 8 | 17 | 6 | 30 | 0 | 36 | 90 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 32 | 5 | 37 | 5 | 1 | 12 | 18 | 7 | 26 | 0 | 33 ! | 88 |
| Total | 0 | 0 | 0 | 0 | 0 | 102 | 14 | 16 | 28 | 1 | 32 | 61 | 23 | 117 | 0 | 134 | 317 |
| 08:00 | 0 | 0 | 0 | 0 | 0 | 31 | 7 | 381 | 4 | 0 | 5 | 9 | 1 | 21 | 0 | 22 ; | 69 |
| 08:15 | 0 | 0 | 0 | 0 | 0 | 25 | 5 | 30. | 2 | 0 | 4 | 6 | 7 | 41 | 0 | 48 | 84 |
| 08:30 | 0 | 0 | 0 | 0 | 0 | 35 | 7 | 42 | 4 | 0 | 6 | 10 | 13 | 27 | 0 | 40 : | 92 |
| 08:45 | 0 | 0 | 0 | 0 | 0 | 37 | 9 | 46 | 8 | 0 | 13 | 21 | 19 | 28 | 0 | 47 ! | 114 |
| Total | 0 | 0 | 0 | 0 | 0 | 128 | 28 | 155 | 18 | 0 | 28 | 46 | 40 | 17 | 0 | 157 | 355 |


| 16:00 | 0 | 0 | 0 | 0 | 0 | 13 | 11 | 24 | 7 | 0 | 6 | 13 | 11 | 11 | 0 | 22 | 59 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 16 | 11 | 27 | 4 | 0 | 3 | 7 | 7 | 20 | 0 | 27 | 61 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 13 | 6 | 19 | 6 | 0 | 2 | $8!$ | 1 | 18 | 0 | 19 | 46 |
| 16.45 | 0 | 0 | 0 | 0 | 0 | ;1 | 9 | 20 | 2 | 0 | 13 | 15 | 3 | 18 | 0 | 21 | 56 |
| Total | 0 | 0 | 0 | U: | 0 | 53 | 31 | 901 | 19 | 0 | 24 | 431 | 22 | 67 | 0 | 89 | 222 |
| 17:00 | 0 | 0 | 0 | 01 | 0 | 11 | 11 | 22 ; | 2 | 0 | 7 | 9 | 2 | 14 | 0 | 16 | 47 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 10 | 7 | 17 | 3 | 0 | 8 | 17 | 4 | 17 | 0 | 21 | 49 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 18 | 4 | 0 | 5 | 9 | 5 | 11 | 0 | 16 | 43 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 9 | 10 | 19 | i | 0 | 5 | 6 | 3 | - | 0 | 11 | 36 |
| Total | 0 | 0 | 0 | 01 | \% | 35 | 37 | 76 | 10 | 0 | 25 | 351 | 14 | 50 | 0 | 64 | 175 |
| 18:00 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | $13!$ | 3 | 0 | 8 | 11 | 3 | 12 | 0 | 15 ! | 39 |
| 18:15 | 0 | 0 | 0 | 0 | 0 | 9 | 8 | 17 | 5 | 0 | 2 | 7 | 3 | 10 | 0 | 13 | 37 |
| 18:30 | 0 | 0 | 0 | 0 | 0 | 18 | 8 | 26 | 2 | 0 | 3 | 5 | 1 | 16 | 0 | 17 | 48 |
| 18:45 | 0 | 0 | 0 | 0 | 0 | 17 | 4 | $21^{\prime}$ | 3 | 0 | 6 | 9 | 0 | 4 | 0 | 4 | 34 |
| Total | $\square$ | 0 | 0 | 01 | U | 49 | 28 | 77 | 13 | 0 | 15 | $32!$ | 7 | 42 | U | $4{ }^{4}$ | 158 |
| Grand Total | 0 | 0 | 0 | 01 | 0 | 426 | 161 | 587: | 105 | 1 | 147 | 2531 | 136 | 499 | 0 | 635 | 1475 |
| Apprch \% | 0.0 | 0.0 | 0.0 |  | 0.0 | 72.6 | 27.4 |  | 41.5 | 0.4 | 58.1 |  | 21.4 | 78.6 | 0.0 |  |  |
| Total \% | 0.0 | 0.0 | 0.0 | 0.01 | 0.0 | 28.9 | 10.9 | 398 | 7.1 | 0.1 | 10.0 | 17.2 | 9.2 | 33.8 | 0.0 | 43.1 |  |


|  | Southbound |  |  |  | SR 50Westoound |  |  |  | NET-75 OFF RAKMFNonthbound |  |  |  | $\begin{aligned} & \text { SR 50 } \\ & \text { Eastbound } \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan Time | Lete |  | Rigm ! | $\begin{aligned} & \text { zpp } \\ & \text { Tolal } \end{aligned}$ | Len | Tru! | Riotra | $\begin{aligned} & \text { xpp. } \\ & \text { Tetat } \end{aligned}$ | Let : | Thn : | Piph | $\begin{gathered} x_{0 \text { obp }} \\ \text { Toat } \end{gathered}$ | Len: | Thus | Rignt |  | कn Tota |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 01 | 0 | 128 | 28 | 1561 | 18 | 0 | 28 | 48 | 40 | 117 | 0 | 157 | 359 |
| Percent | 0.0 | 0.0 | 0.0 |  | 0.0 | 82.1 | 17.9 |  | 39.1 | 0.0 | 60.9 |  | 25.5 | 74.5 | 0.0 |  |  |
| volume | 0 | 0 | 0 | 0 | 0 | 128 | 28 | 156: | 18 | 0 | 28 | 46 | 40 | 117 | 0 | 157 | 359 |
| Volume | 0 | 0 | 0 | 0 | 0 | 37 | 9 | 46 ; | 8 | 0 | 13 | 21 : | 19 | 28 | 0 | 47 | 114 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.787 |
| High int. | 5:45:00 |  |  |  | 08:45 |  |  |  | $08: 45$ |  |  |  | 08:15 |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 37 | 9 | 46 | 8 | 0 | 13 | 21 | 7 | 41 | 0 | 48 |  |
| Peak Factor |  |  |  |  |  |  |  | 0.848 |  |  |  | 0.548 |  |  |  | 0818 |  |

Bayside Engineering, inc.
1105 East Twiggs Street Tampa, FL 33602

File Name: NB 1-75 Ramps@ SR 50
Site Code :00000000
Start Date: 03/17/2005
Page No 2

|  | Southbound |  |  |  | SR 50 Westbound |  |  |  | NBT.75OFF RAMPNOMBOUnd |  |  |  | $\begin{gathered} \text { SF } 30 \\ \text { Eastbound } \end{gathered}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Slart Tms | Leth | Thau | Right | Kpp, | Latt | Tru: | Right | $\mathrm{zpDP}_{\mathrm{polati}}$ | cot | 7no | Figh | ${ }_{\text {Topal }}^{\text {ata }}$ | Leff | Thes | Right | $\xrightarrow{\text { mopp }}$ Totat | int fotal |
|  <br> Intersection 16:00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Votume | 0 | 0 | 0 | 0 | 0 | 53 | 37 | 90 | 19 | 0 | 24 | 43 | 22 | 67 | 0 | 9 | 2 |
| Percent | 0.0 | 0.0 | 0.0 |  | 0.0 | 58.9 | 41.1 |  | 44.2 | 0.0 | 55.8 |  | 24.7 | 75.3 | 0.0 |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 53 | 37 | 90 | 19 | 0 | 24 | 43 | 22 | 67 | 0 | 89 | 222 |
| Volume | 0 | 0 | 0 | 0 | 0 | 16 | 11 | 27 | 4 | 0 | 3 | 7 | 7 | 20 | 0 | 27 | 61 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.910 |
| High Int. |  |  |  |  | 16:15 |  |  |  | 16:45 |  |  |  | 16:15 |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 16 | 11 | 27 | 2 | 0 | 13 | 15 | 7 | 20 | 0 | 27 |  |
| Peak Factor |  |  |  |  |  |  |  | 0.833 |  |  |  | 0.717 |  |  |  | 0.824 |  |

File Name: N8 1-75 Ramps@SR 50
Site Code :00000000
Stan Date : 03/17/2005
Page No : 1
Groups Prined-U-Turns
Groups Printed. UT

|  | Southbound |  |  |  | $\begin{gathered} \text { SF } 50 \\ \text { Westbound } \end{gathered}$ |  |  |  | NETन5 OFF PAKAP Nontibound |  |  |  | 5F 50 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Tme | Lath | Thu | Right | Totay | Left | mai | frant | $\begin{aligned} & \text { App. } \\ & \text { Tolai } \end{aligned}$ | Len! | Thrs | Righ | $\begin{aligned} & \text { xop } \\ & \text { Yetal } \end{aligned}$ | ten | Thre | Right | $\begin{aligned} & \mathrm{APD} \\ & \mathrm{~T}_{\mathrm{cl}} \mathrm{la} \end{aligned}$ | in Totas |
| FaCol | 10 | 0 | 10: |  | 10: | m | Ti! |  | प | 101 | 10 |  | ro. | 10 | T0: |  |  |


| 0700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 01 | 1 | 0 | 0 | 11 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $07 \cdot 30$ | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | U | 0 | 2 | U | O | 2 | 2 |
| 08:30 | 0 | 0 | 0 | $0:$ | 0 | 0 | 0 | $0!$ | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1: | 1 |
| Total | 0 | 0 | 0 | $\square$ | 0 | U | 0 | 0 | J | U | 0 | 0 | 1 | 7 | 0 | ! | T |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 1 | 0 | 0 | 1 : | 1 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 ! | 1 | 0 | 0 | \% | 1 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | $0 \vdots$ | 1 | 0 | 0 | 1 | 1 |
| Tola! | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 : | 3 | 0 | 0 | 3 | 3 |
| 18:30 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | i | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 : |  |
| 18:45 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0! | 0 | 0 | 0 | 0 | 1 | 0 | 0 | + | 1 |
| Total | U | 0 | 0 | 01 | 1 | U | 0 | 1 | (1) | 0 | 0 | $\square$ | T | 0 | U |  | 2 |
| Srand Total | 0 | 0 | 0 | 0 : | i | 0 | 0 | i: | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 71 | $\varepsilon$ |
| Apprch \% | 0.0 | 0.0 | 0.0 | , | $\begin{array}{r} 100 \\ 0 \end{array}$ | 0.0 | 0.0 | ! | 0.0 | 0.0 | 0.0 | , | $100 .$ | 0.0 | 0.0 | ! |  |
| Totel $\%$ | 0.0 | 0.0 | 0.0 | $0.0^{1}$ | 12.5 | 0.0 | 0.0 | 12.5: | 0.0 | 0.0 | 0.0 | $0.0{ }^{\text {i }}$ | 87.5 | 0.0 | 0.0 | 87.5 ! |  |



|  | Wावण: 35 | , ${ }^{\text {a }}$ |  | , |  |  |  | Yar. | - | - |  | 7oan | - | ? |  | Totat | 硣 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Intersection Volume | $\begin{array}{r} 06.45 \\ 0 \end{array}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 2 |  |
| Percent | 0.0 | 0.0 | 0.0 |  |  |  | 0 |  | 00 | 00 | 0 |  | 100 | 0 | 0 | 2 | 2 |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| Volume | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 0 | 21 | 2 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.500 |
| High int. | 5:45:00 |  |  |  | 5:45:00 |  |  |  | 5:45:00 |  |  |  | 07:00 |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |  |  |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.500 ! |  |

Peak Hour From 16:00 to 18:45-Peak 1 of 1

| Intersection Volume | $\begin{array}{r} 17: 00 \\ 0 \end{array}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percent | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.0 | 00 |  | 100. | 0.0 | 0. | i |  |
| Volume | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 : | 1 | 0 | 0 | 1 | 3 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| High int. <br> Volume | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  | 17:15 |  |  |  |  |
| Feak Factor |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |  |

Bayside Engineering, Inc.

Counted by : Ron/Ryan
Board \# : 1320/1321
Weather cool cainy

File Name : NB 1-75 Ramps@ SR 50
Site Code : 00000000
Start Date : 03/17/2005
Page No

Groups Printed- Passenger Vehicles - Trucks \& Buses - U-Turns

|  | Southbound |  |  |  | SR 50 Westbound |  |  |  | NET-750FF RAMP Nonthbound |  |  |  | SF 50 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stan Tome | Leth | Trau | Right | $\begin{aligned} & \text { Kog } \\ & \text { rocal } \end{aligned}$ | Lon! | Thus | Pight |  | Left | Trus | Aigra | $\begin{gathered} \text { ADCD } \\ \text { Torat } \end{gathered}$ | Loth | Tmis | Rigru | $\underset{\text { Toral }}{\text { abol }}$ | int Tolat |
| Facor | 0 | 0 | 0 |  | T0: | 5 | T0 |  | T0 | 10 | T |  | 10 | T01 | 10 |  |  |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 85 | 21 | 706 | 12 | 0 | 15 | 27 | 26 | 86 | 0 | 112 | 245 |
| 06:15 | 0 | 0 | 0 | 0 | 0 | 136 | 30 | 166 | 18 | 0 | 24 | 42 | 35 | 115 | 0 | 150 | 358 |
| 06:30 | 0 | 0 | 0 | 0 | 0 | 125 | 33 | 158 | 20 | 0 | 29 | 49 | 40 | 98 | 0 | 138 | 345 |
| 06:45 | 0 | 0 | 0 | 0 | 0 | 117 | 28 | 145 | 15 | 0 | 38 | 53 | 40 | 125 | 0 | 165 | 363 |
| Tolal | 0 | 0 | 0 | 0 | 0 | 463 | 172 | 575 | 65 | 0 | 106 | 171 | 141 | 424 | 0 | 565 | 1317 |


| 07:00 | 0 | 0 | 0 | 0 | 0 | 112 | 35 | 147 | 19 | 0 | 48 | 67 | 35 | 109 | 0 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 | 0 | 0 | 0 | 0 | 0 | 126 | 40 | 166 | 25 | 0 | 37 | 62 | 36 | 123 | 0 | 144 | 358 |
| 07:30 | 0 | 0 | 0 | 0 | 0 | 174 | 33 | 207 | 18 | 0 | 40 | 58 | 38 | 150 | 0 | 188 | 87 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 175 | 41 | 216 | 29 | 2 | 44 | 75 | 30 | 134 | 0 | 164 | 453 |
| Tola | 0 | 0 | 0 | 0 | 0 | 5 उ\% | 49 | 736 | 41 | 2 | 169 | 262 | 139 | 516 |  | 55 | 455 |


| $08: 00$ | 0 | 0 | 0 | 0 | 0 | 148 | 36 | 184 | 26 | 0 | 37 | 63 | 29 | 108 | 0 | 1371 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $08: 15$ | 0 | 0 | 0 | 0 | 0 | 153 | 27 | 180 | 27 | 0 | 43 | 70 | 39 | 140 | 0 | 179 |
| $08: 30$ | 0 | 0 | 0 | 0 | 0 | 161 | 25 | 186 | 23 | 0 | 49 | 72 | 42 | 131 | 0 | 173 |
| $08: 45$ | 0 | 0 | 0 | 0 | 0 | 160 | 42 | 202 | 24 | 0 | 71 | 95 | 45 | 138 | 0 | 183 |
| 10121 | 0 | 0 | 0 | 0 | 0 | 622 | 130 | 752 | 100 | 0 | 200 | 300 | 155 | 517 | 0 | 672 |


| 16:00 | 0 | 0 | 0 | 0 | 0 | 181 | 45 | 226 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 150 | 42 | 192 | 30 | 0 | 50 | 80 | 35 30 | 172 | 0 | 225 | 548 474 |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 172 | 31 | 203 | 27 | 0 | 67 | 94 | 20 | 186 | 0 |  | 503 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 168 | 38 | 206 | 33 | 0 | 64 | 97 | 29 | 155 | 0 | 184 | 503 |
| Tolat | 0 | 0 | 0 | 0 | 0 | 671 | 155 | 827 | 131 | 0 | 237 | 368 | 114 | 703 | 0 | 81. | 2072 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 161 | 32 | 193 | 32 | 0 | 67 | 99 | 29 | 152 | 0 |  |  |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 142 | 37 | 179 | 26 | 0 | 64 | 90 | 31 | 180 | 0 | 211 | 480 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 164 | 38 | 202 | 23 | 0 | 72 | 95 | 21 | 128 | 0 | 140 | 480 446 |
| $17: 45$ | 0 | 0 | 0 | 0 | 0 | 145 | 40 | 185 | 24 | 0 | 56 | 80 | 23 | 117 | 0 | 140 | 405 |
| Tolal | 0 | 0 | 0 | 0 | 0 | 612 | 147 | 759 | 105 | 0 | 259 | 354 | 104 | 371 | 0 | 681 | 1804 |


| $18: 00$ | 0 | 0 | 0 | 0 | 0 | 124 | 33 | 157 | 26 | 0 | 60 | 86 | 20 | 132 | 0 | 152 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $18: 15$ | 0 | 0 | 0 | 0 | 0 | 121 | 29 | 150 | 22 | 0 | 41 | 63 | 16 | 114 | 0 | 130 |
| $18: 30$ | 0 | 0 | 0 | 0 | 1 | 161 | 35 | 197 | 18 | 0 | 52 | 70 | 10 | 105 | 0 | 115 |
| $18: 45$ | 0 | 0 | 0 | 0 | 0 | 124 | 29 | 153 | 19 | 0 | 62 | 81 | 18 | 109 | 0 | 127 |
| 1061 | 0 | 0 | 0 | 0 | 0 | 530 | 126 | 657 | 85 | 0 | 215 | 300 | 64 | 460 | 0 | 524 |


| Grand Total | 0 | 0 | 0 | 0 | 1 | 3485 | 820 | 4306 | 577 | 2 | 1186 | 1765 | 717 | 3197 | 0 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Appreh \% | 0.0 | 0.0 | 0.0 |  | 0.0 | 80.9 | 19.0 |  | 32.7 | 0.1 | 67.2 |  | 18.3 | 81.7 | 0.0 |
| Total $\%$ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.9 | 82 | 43.1 | 5.8 | 0.0 | 11.9 | 17.7 | 7.2 | 32.0 | 0.0 |


|  | Southbound |  |  |  | 5F50 Westbound |  |  |  | NE T-75 OFF सATAP Northbound |  |  |  | SR 50 <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stern Tene | let | Trus | Ripat | Rop total | Let | tru | aight | The | Len ${ }_{\text {i }}$ | thrs | Rigra | Fob, | Len | Tras | Right | Repal | in. Teral |
| intersection | 08:00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 01 | 0 | 622 | 130 | 752 ! | 100 | 0 | 200 | 300 | 155 | 517 | 0 | 672 | 1724 |
| Percent | 0.0 | 0.0 | 0.0 |  | 0.0 | 82.7 | 17.3 |  | 33.3 | 0.0 | 66.7 |  | 23.1 | 76.9 | 0.0 |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 622 | 130 | 752 | 100 | 0 | 200 | 300 | 155 | 517 | 0 | 672 |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 160 | 42 | 202 | 24 | 0 | 71 | 95 | 45 | 138 | 0 | 183 | 1724 480 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 183 | 0.898 |
| High int. | 5:45:00 |  |  |  | 8:45 |  |  |  | 08:45 |  |  |  | 08:45 |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 ! | 0 | 160 | 42 | 202 : | 24 | 0 | 71 | 95 | 45 | 138 | 0 |  |  |
| Peak Factor |  |  |  |  |  |  |  | 0.931 : |  |  |  | 0.789 |  |  |  | $0.918$ |  |

File Name: NB 1.75 Ramps@ SR 50
Site Code :00000000
Star Date:03/17/2005
Page No 2

|  | Southbound |  |  |  | SF50 Westbound |  |  |  | NET 75 OFF RAMF Northbound |  |  |  | SR 50Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| -reax Hoart fran te | Lef | Trus | Rien! | Rope | Len | Thu | Figh | $\begin{aligned} & \text { Rup } \\ & \text { retail } \end{aligned}$ | ten | Trua | Righ | $\begin{aligned} & \text { App. } \\ & \text { Total } \end{aligned}$ | tht | Thru | Aigrn | ${ }_{\text {Nop }}^{\text {Total }}$ | Int Toras |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 671 | 156 | 227 | 131 | 0 | 237 | 368 ! |  | 703 |  |  |  |
| Percent | 0.0 | 0.0 | 0.0 |  | 0.0 | 81.1 | 18.9 |  | 35.6 | 0.0 | 64.4 |  | 14.0 | 86.0 | 0 | 817 | 2012 |
| Volume | 0 | 0 | 0 | 0 | 0 | 671 | 156 | 827 | 131 | 0 | 237 | 368 | 114 | 703 | 0 | 817 | 2012 |
| Volume | 0 | 0 | 0 | 0 | 0 | 181 | 45 | 226 | 41 | 0 | 56 | 97 | 35 | 190 | 0 | 225 | 2012 548 |
| Peak Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.918 |
| High int Votume | 0 | 0 |  |  | 16:00 |  |  |  | 16.00 |  |  |  | 16:00 |  |  |  |  |
| Peak Factor |  |  |  | 0 | 0 | 181 | 45 | 226 | 41 | 0 | 56 | 97 | 35 | 190 | 0 | 225 |  |
| Peak Factor |  |  |  |  |  |  |  | 0.915 |  |  |  | 0.948 |  |  |  | 0908 |  |

## APPENDIX ' $C$ '

TRAFFIC RELATED CORRESPONDENCE


Traffic Projection for I-75/SR 50 / CR 41

175 PD\&E Lochner.xls
2/8/05

| 105 |  | 2005 | $\begin{aligned} & \text { Lochner } \\ & 45 ; 800 \end{aligned}$ |
| :---: | :---: | :---: | :---: |
|  |  | 2010 | 55,700 |
|  |  | 2020 | 75.400 |
|  |  | 2025 | 85,300 |
|  | AADT | 2030 | 95,200 |
| 2005 -20,600 |  |  |  |
| 2010 | 29.400 |  |  |
| 2020 | 47,100 |  |  |
| 2025 | 56,000 |  |  |
| 2030 64,800 <br>  SR 50 |  |  |  |
|  |  |  |  |

AADT

| 24.100 | 2005 |
| :--- | :--- |
| 34.400 | 2010 |
| 55.100 | 2020 |
| 65.500 | 2025 |
| 75.800 | 2030 |

2030

SR 50

2005
2010
2020
13,600 2025
$16.100 \quad 2030$

AADT
2005 筑2600
2010 64,100
2020 87,200
2025 98,900
$2030 \quad 110,400$

Sketch 1.75 with Parallel CD


# MEMORANDUM 

TO: $\quad$-75 PD\&E Study File<br>WPI Seg. No.: 4110141, FAP No.: 0751-1201

FROM: Herschel Conner
CC: Mark Clasgens, Frank DeLuca, Ed Bryant
DATE: 07/11/05

# subJECT: Traffic Factors for 1-75 PD\&E Study Traffic Technical Memorandum 

The Draft Traffic Technical Memorandum (TTM), dated May 2005, was developed using K, D, and $T$ factors provided in F. Bitar's memo of April 18, 2005. After submission of the Draft TTM, we received a revised set of K, D, and T factors based on a review of 4 -year historical factors for Pasco, Hemando, and Sumter Counties and recommended statewide values. The revised factors were included in memo received from F. Bitar on June 15, 2005 subsequent to submitting the Draft TTM to District VII for review.

We have reviewed the memo and the justification used for revising the factors used for traffic analysis. Although, we do not disagree with the revised $D$ and $T$ factors, we would like to review the $K$ factor recommended. The $K$ factor used in the Draft TTM and originally approved by $F$. Bitar was 8.76 while the revised $K$ factor is significantly higher at 10.75. Reviewing the tables reporting historical data and statewide averages, we believe that the appropriate factor is somewhere in between the original and revised number.

Since over $90 \%$ of the project length is the southern counties of Pasco and Hemando counties, and there are no study interchanges in Sumter County, historical factors from Pasco and Hernando should be emphasized in determining an appropriate K-factor for this study. The observed K-factors from the 2001 to 2004 Florida Traffic Information CD range from 8.55 to 8.94 with an average of 8.81 in Pasco and from 8.76 to 9.52 with an average of 9.23 in Hernando. These factors are less than the statewide average for urban interstates is 9.7 and are instead closer to the minimum statewide recommended
value of 9.4 . By 2030, the study corridor should primarily be a commuter roadway during the peak hour periods and thus an urban factor is more appropriate than a rural factor.

We suggest a K-factor of 9.40 be used for traffic analysis in this study. At this K-factor, design year (2030) traffic volumes will operate at LOS C for the mainline and all ramps will operate at LOS C or D. LOS D will require substantially less ramp construction than LOS E (the LOS result with a K-factor of 10.75) in order to meet the level of service standard.. Also, the Highway Capacity Software analysis results show that at a K-factor of 10.75 , the $1-75$ mainline with 6 lanes will operate at LOS D south of SR 50 and LOS $C$ north of SR 50. Thus to meet the LOS standard of $C$, the lane call south of SR 50 will need to be 8 lanes and 6 lanes north of SR 50 .

After you review the above, please provide us guidance regarding which factors to use in the Final TTM. Once we receive direction from you regarding traffic factors for use in this study, we will complete the Final TTM and submit it to your office. If you have any questions for us regarding our evaluation of this issue, please get in touch with us.

# MEMORANDUM <br> Department of Transportation <br> District Seven Planning MS 7-500 

## DATE: June 15, 2005

TO: Mark Clasgen, PD\&E Project Manager
FROM: Fawzi Bitar, Systems Planning Coordinator


COPTES: File

```
SUBJECT: W.P.L. : 411014-1
    State Road : 1-75 (SR 52 to CR 476B) PD&E Study
    County : Pasco/Hernando/Sumter
```

Per you request, I took a closer look the last four (4) years of K. and D factors for I-75 for Pasco, Hernando and Sumtcr counties as well as the Recommended State factors and revised the factors. The recommended $K$ and $D$ factors arc:

$$
K=10.75 \% \quad D=56.35 \%
$$

Please see enclosure.
/FKB
Enclosure

# MEMORANDUM 

Department of Transportation
District Seven Planning MS 7.300

DATE: April] 18. 2005
TO: Mark Glasgens. PD\&E Project Manager
FROM: Fawzi Bitar, Systems Planning Coordinator


COPIES: File
SUBJECT: W.P.I. : 411014-1
State Road : I-75 (SR 52 to CR 476B) PD \&E Study
County : Pasco/Hernando/Sumter
Per your request dated February 11: 2005, enclosed is a sketch of the existing 2005 AADT and projected 2010.2020 .2025 and 2030 AADT , the (K.D\&T) factors, for the above referenced section.

$$
\begin{aligned}
\mathrm{K} & =8.79 \% \\
\mathrm{D} & =53.67 \% \\
24 \mathrm{Hr} \mathrm{~T} & =27.00 \% \\
\text { Design } \mathrm{Hr} \mathrm{~T} & =13.50 \%
\end{aligned}
$$

The projected traffic was developed after reviewing:
A) The January 2005 District Five PD \&E Study prepared by Ghyabi \& Associates. (1-75 Hernando/Sumter Co. Line to SR 44).
B) The 2000 Model outputs of the Tampa Bay Regional Planning Model (TBRPM).
C) The results of the 2025 TBRPM run using the 2025 socioeconomic data and the Adopted 2025 Long Range Transportation Plan (LRTP) network.
D) The model traffic was smoothed and converted to AADT.
E) The projected 2010, and 2020 AADTs are interpolated and the 2030 extrapolated between 2005 and 2025 AADT .

I have followed The FDOT Project Traffic Forecasting Procedure.
/FEB
Enclosure

I-75 (SR 52 to CR 476B) PD\&E Study

|  | Pasco |  | Hernando |  | Sumter |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | $K$ | $D$ | $K$ | $D$ | $K$ | $D$ |
| 2001 | 8.94 | 55.00 | 8.52 | 57.42 | 10.94 | 57.94 |
| 2002 | 8.99 | 56.15 | 8.98 | 56.15 | 11.69 | 54.81 |
| 2003 | 8.76 | 53.67 | 8.76 | 53.67 | 11.14 | 55.41 |
| 2004 | 8.55 | 55.03 | 9.83 | 56.22 | 10.60 | 57.12 |
| 4 Avg | 8.81 | 54.96 | 9.23 | 55.87 | 11.09 | 56.32 |



## APPENDIX 'D'

EXISTING YEAR (2005) INTERSECTION LOS ANALYSIS



| Vehicle Volumes and Adjustments |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Major Street | Eastbound |  |  | Westbound |  |  |
| Movement | 1 | 2 | 3 | 4 | 5 | 6 |
|  | L | T | R | L | T | R |
| Volume (veh/h) |  | 110 | 110 | 90 | 219 |  |
| Peak-Hour Factor, PHF | 1.00 | 0.88 | 0.88 | 0.95 | 0.95 | 1.00 |
| Hourly Flow Rate, HFR (veh/h) | 0 | 125 | 125 | 94 | 230 | 0 |
| Percent Heavy Vehicles | 0 | -- | - | 3 | - | -- |
| Median Type | Undivided |  |  |  |  |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 0 | 1 | 0 | 1 | 1 | 0 |
| Configuration |  |  | TR | L | $T$ |  |
| Upstream Signal |  | 0 |  |  | 0 |  |
| Minor Street | Northbound |  |  | Southbound |  |  |
| Movement | 7 | 8 | 9 | 10 | 11 | 12 |
|  | L | T | R | L | T | R |
| olume (veh/h) | 38 |  | 32 |  |  |  |
| Peak-Hour Factor, PHF | 0.89 | 1.00 | 0.89 | 1.00 | 1.00 | 1.00 |
| Hourly Flow Rate, HFR (veh/h) | 42 | 0 | 35 | 0 | 0 | 0 |
| Percent Heavy Vehicles | 10 | 0 | 10 | 0 | 0 | 0 |
| Percent Grade (\%) | 0 |  |  | 0 |  |  |
| Flared Approach |  | N |  |  | N |  |
| Storage |  | 0 |  |  | 0 |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 1 | 0 | 1 | 0 | 0 | 0 |
| Configuration | L |  | R |  |  |  |

Delay, Queue Length, and Level of Service

| Approach | Eastbound | Westbound | Northbound |  |  | Southbound |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 4 | 7 | 8 | 9 | 10 | 11 | 12 |
| Lane Configuration |  | $L$ | $L$ |  | $R$ |  |  |  |
| v(veh/h) |  | 94 | 42 |  | 35 |  |  |  |
| C (m) (veh/h) |  | 1310 | 415 |  | 834 |  |  |  |
| v/c |  | 0.07 | 0.10 |  | 0.04 |  |  |  |
| $95 \%$ queue length |  | 0.23 | 0.34 |  | 0.13 |  |  |  |
| Control Delay (s/veh) |  | 8.0 | 14.6 |  | 9.5 |  |  |  |
| LoS | $A$ | $B$ |  | $A$ |  |  |  |  |
| Approach Delay (s/veh) | - | - | 12.3 |  |  |  |  |  |
| pproach LOS | - | - | $B$ |  |  |  |  |  |

## HCS + ${ }^{\text {* }}$ DETAILED REPORT

General Information

| Analyst | CRH |
| :--- | :--- |
| gency or Co. | FDOT |
|  | Date Performed 10/26/06 <br> Time Period  |.

Site Information

| Intersection | I-75 NB Ramps @ SR 50 |
| :--- | :--- |
| Area Type | All other areas |
| Jurisdiction | Hernando |
| Analysis Year |  |
| Project ID | 1-75 PD\&E Study - 2005 <br> SR50 NB Ramps |

SR50 NB Ramps

Volume and Timing Input


| Phasing | EW Perm | Thru \& RT | 03 | 04 | NB Only | 06 | 07 | 08 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Timing | $G=11.0$ | $G=21.3$ | G = | G= | $G=12.7$ | $\mathrm{G}=$ | G = | G = |
|  | $Y=5$ | $Y=5$ | $Y=$ | $Y=$ | $Y=5$ | $Y=$ | $Y=$ | $Y=$ |
| Duration of Analysis, $T=0.25$ |  |  |  |  |  | Cycle Length, $C=60.0$ |  |  |


| - |  | EB |  |  | WB |  |  | NB |  |  | SB |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v | 256 | 932 |  |  | 1145 | 242 | 269 |  | 173 |  |  |  |
| Lane Group Capacity, c | 298 | 2899 |  |  | 1640 | 1442 | 341 |  | 305 |  |  |  |
| v/c Ratio, X | 0.86 | 0.32 |  |  | 0.70 | 0.17 | 0.79 |  | 0.57 |  |  |  |
| Total Green Ratio, g/C | 0.18 | 0.62 |  |  | 0.35 | 1.00 | 0.21 |  | 0.21 |  |  |  |
| Uniform Delay, $d_{1}$ | 23.7 | 5.4 |  |  | 16.6 | 0.0 | 22.4 |  | 21.2 |  |  |  |
| Progression Factor, PF | 1.000 | 1.000 |  |  | 1.000 | 0.950 | 1.000 |  | 1.000 |  |  |  |
| Delay Calibration, K | 0.39 | 0.11 |  |  | 0.26 | 0.11 | 0.34 |  | 0.16 |  |  |  |
| Incremental Delay, $\alpha_{2}$ | 21.5 | 0.1 |  |  | 1.3 | 0.1 | 11.8 |  | 2.5 |  |  |  |
| Initial Queue Delay, $\mathrm{d}_{3}$ | 0.0 | 0.0 |  |  | 0.0 | 0.0 | 0.0 |  | 0.0 |  |  |  |
| T.ontrol Delay | 45.2 | 5.4 |  |  | 17.9 | 0.1 | 34.1 |  | 23.7 |  |  |  |
| Lane Group LOS | D | A |  |  | B | A | c |  | C |  |  |  |
| Approach Delay | 14.0 |  |  | 14.8 |  |  | 30.0 |  |  |  |  |  |
|  | $B$ |  |  | B |  |  | C |  |  |  |  |  |


| Approach LOS |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Intersection Delay | 16.7 | $X_{c}=0.76$ | Intersection LOS | $B$ |

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| Approach LOS |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Intersection Delay | 10.0 | $X_{C}=0.65$ | Intersection LOS | $B$ |
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## APPENDIX 'E'

EXISTING YEAR (2005) FREEWAY SEGMENT AND RAMP LOS





| DDHV-Directional design hour volume | LOS, S, FFS, v - Ex |  | $\mathrm{f}_{10}$ - Exhib | 3-7 |
| :---: | :---: | :---: | :---: | :---: |
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General Information


## `alculate Flow Adjustments

| $\left.\right\|^{\text {p }}$ | 0.95 |  | $E_{R}$ | 1. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $E_{T}$ | 1.5 |  | $\mathrm{f}_{\mathrm{HV}}=$ |  |  |
| Speed Inputs |  |  | Calc Speed Adj and FFS |  |  |
| Lane Width |  | f | $\mathrm{f}_{\text {Lw }} 0$ |  | $\mathrm{m} / \mathrm{h}$ |
|  | 6.0 | ft |  |  | min |
| Interchange Density | 0.50 |  | $\mathrm{f}_{\mathrm{LC}}$ | 0.0 | mi/h |
| Number of Lanes, N | 2 | 1/mi | $f_{10}$ | 0.0 | milh |
| FFS (measured) |  | mi/h | $\mathrm{f}_{\mathrm{N}}$ | 0.0 | $\mathrm{mi} / \mathrm{h}$ |
| Base free-flow Speed, BFFS | 75.0 | $\mathrm{m} / \mathrm{h}$ | FFS | 75.0 | $\mathrm{m} / \mathrm{h}$ |
| LOS and Performance Measures |  |  | Design ( $N$ ) |  |  |
| Operational (LOS)$\mathrm{v}_{\mathrm{P}}=\left(\mathrm{V}\right.$ or DDHV) $/\left(\mathrm{PHF} \times N \times \mathrm{f}_{\mathrm{HV}} \times\right.$ |  | $\mathrm{pe} / \mathrm{h} / \mathrm{ln}$ | Design (N) |  |  |
|  |  | Design LOS |  |  |
| $v_{\mathrm{p}}=(\mathrm{VorDDHV}) /\left(\mathrm{PHF} \times \mathrm{NX} \mathrm{f}_{\mathrm{HV}} \times\right.$ |  |  | $v_{\mathrm{p}}=\left(\mathrm{V}\right.$ or DDHV) $/\left(\mathrm{PHF} \times \mathrm{N} \times \mathrm{f}_{\mathrm{HV}} \times\right.$ |  | $\mathrm{pc} / \mathrm{h}$ |
| S |  |  | $\mathrm{m} / \mathrm{h}$ |  |  | $\mathrm{m} / \mathrm{h}$ |
| $D=v_{p} / S$ |  | pc/mi/ln |  |  |  |
| LOS | c |  | $D=$ |  | $\mathrm{pc} / \mathrm{mi} / \mathrm{n}$ |  |
|  |  |  | Required Number of Lanes, N |  |  |  |
| Glossary |  |  | Factor Location |  |  |  |
| - Number of lanes | S - Speed |  | $E_{R}$ - Exhibits23-8, 23-10 |  |  |  |
| - - Hourly volume | D - Density |  | $E_{T}$ - Exhibits 23-8, 23-10, 23-11 |  | $\mathrm{f}_{\text {LC }}$ - Exhibit $23-5$ |  |
| $\mathrm{v}_{\mathrm{p}}$ - Flow rate | BFFS - Base free-flow speed |  |  |  |  |  |
| LOS - Level of service |  |  | $\mathrm{f}_{\mathrm{p}}$ - Page 23-12 |  | $\mathrm{f}_{\mathrm{N}}$ - Exhibit 23-6 |  |


| DDHV - Directional design hour volume | LOS, S, FFS, $v_{p}$ - Exhibits 23-2, 23-3 | $\mathrm{f}_{10}$ - Exhibit $23-7$ |
| :---: | :---: | :---: |
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General Information
Analyst EJB
$\begin{array}{ll}\text { Agency or Company } & \text { HW Lochner, Inc. } \\ \text { Date Performed } & 7 / 28 / 2005\end{array}$ Analysis Time Period

## Site Information

| Highway/Direction of Travel | 1 1-75 Southbound |
| :--- | :--- |
| From/To | North of SR 50 |
| Jurisdiction | Hernando County |
| Analysis Year | 2005 |

1-75 Southbound North of SR 50 Hernando County 2005

Project Description 1-75 PD\&E -2005 SB North of SR 50 ( $1-75=4$ Lanes)



| DDHV - Directional design hour volume | LOS, S, FFS, $V_{p}$ - Exhibits 23-2, 23-3 | $\mathrm{f}_{\mathrm{B}}$ - Exhibit 23-7 |
| :---: | :---: | :---: |
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DOHV - Directional design hour volume
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| Appliction | mput | Output |
| :---: | :---: | :---: |
| Oprational (LOS) | FFS, $\mathrm{N}, \mathrm{r}_{\mathrm{j}}$ | LOS, S, D |
| Design ( N ) | FFS LOS $\mathrm{y}_{0}$ | N, S, D |
| Design (v) | FFS, LOS, NT | $v_{p} \mathrm{~S}$ S D |
| Planning (LOS) | FFS, $\mathrm{N}, \mathrm{A}$, $\mathrm{D}^{\text {d }}$ | LOS, S. D |
| Plasming (f) | FFS LOS, AADT | N, S, D |
| Planning ( $\mathrm{l}_{\mathrm{p}}$ ) | FFS. LOS, A | $v_{v} \mathrm{~s}, 0$ |



## alculate Flow Adjustments




## RAMPS AND RAMP JUNCTIONS WORKSHEET

General Information Site Information

| Analyst |  |  |
| :---: | :---: | :---: |
| Agency or Company |  |  |
| Date Performed |  |  |
| Analysis Time Period |  |  |
| Project Description |  |  |
| Inputs |  |  |
| Upstream Adj Ramp |  |  |
| TYes TOn |  |  |
| FNo 「Off |  |  |
| $L_{u p}=\mathrm{ft}$ |  |  |
|  | = | veh/h |

EJB
HW Lochner, Inc.
$7 / 28 / 2005$
DHV

| Freeway/Dir of Travel | 1-75 Northbound |
| :--- | :--- |
| Junction | CR 41/Blanton Road Off-Ramp |
| Jurisdiction | Pasco County |
| Analysis Year | 2005 |

RAMPS AND RAMP JUNCTIONS WORKSHEET
General Information
Site Information


Conversion to pc/h Under Base Conditions


| RAMPS AND RAMP JUNCTIONS WORKSHEET |  |  |
| :---: | :---: | :---: |
| General Information |  | Site Information |
| Analyst | EJB Freeway/Dir of Travel | 1.75 Southbound |
| Agency or Company | HW Lochner, hnc. Junction | CR 41/Blanton Rd Off-Ramp |
| Date Periormed | 7/28/2005 Jurisdiction | Pasco County |
| Analysis Time Period | DHV Analysis Year | 2005 |
| Project Description 1-75 PD\&E Study - SB Off Ramp at CR 41 |  |  |
| Inputs |  |  |
| Upstream Adj Ramp | Tertain: Level | Downstream Adj Ramp |
|  |  |  |
|  |  | FYes Fon |
| F No TOff |  | TNo TOff |
| $L_{u p}=\mathrm{ft}$ |  | $\mathrm{L}_{\text {down }}=700 \mathrm{ft}$ |
| $v_{u}=\mathrm{veh} / \mathrm{h}$ | $\begin{gathered} S_{F F}=70.0 \mathrm{mph} \\ \text { Sketch (show lanes, } L_{A}, L_{0}, V_{R}, V_{0} \text { ) } \end{gathered}$ | $\mathrm{V}_{\mathrm{D}}=200 \mathrm{veh} / \mathrm{h}$ |
| $v_{u}=\quad \mathrm{veh} / \mathrm{h}$ |  | D $\quad 200 \mathrm{veh} / \mathrm{h}$ |

## Conversion to pc/h Under Base Conditions



| Level of Service Determination (if not $F$ ) | Level of Service Determination (if not $F$ ) |
| :--- | :--- |
| $D_{R}=5.475+0.00734 \mathrm{~V}_{R}+0.0078 \mathrm{~V}_{12}-0.00627 \mathrm{~L}_{\mathrm{A}}$ | $\mathrm{D}_{\mathrm{R}}=4.252+0.0086 \mathrm{~V}_{12}-0.0009 \mathrm{~L}_{\mathrm{D}}$ |
| $\mathrm{D}_{\mathrm{R}}=$ | (pc/mi/ln) |
| LS $=$ | (Exhibit 25-4) |



| (pch) | $V$ <br> (Vehfr) | PHF | Terain | $\%$ Truck | $\% R V$ | $f_{H V}$ | $f_{p}$ | $V=\mathrm{VPHF} \times$ <br> $\mathrm{F}_{\mathrm{HV}} \times \mathrm{p}_{\mathrm{p}}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 1960 | 0.94 | Level | 14 | 1 | 0.933 | 0.95 | 2353 |
| Ramp | 200 | 0.89 | Level | 10 | 1 | 0.951 | 0.95 | 249 |
| UpStream | 70 | 0.89 | Level | 10 | 1 | 0.951 | 0.95 | 87 |
| DownStream |  |  |  |  |  |  |  |  |


| Estimation of $V_{12}$ |
| :--- |
| $\qquad V_{12}=V_{F}\left(P_{F M}\right)$ |
| $L_{E O}=$ (Equation 25-2 or 25-3) |
| $P_{F M}=1.000$ using Equation (Exhibit 25-5) |
| $V_{12}=2353$ pch |

Capacity Checks
Capacity Checks


KAMPS AND RAMP IUNC I IUNS WURKSHEE


## Conversion to pc/h Under Base Conditions



| Level of Service Determination (if not $F$ ) | Level of Service Determination (if not F) |
| :---: | :---: |
| $\mathrm{D}_{\mathrm{R}}=5.475+0.00734 \mathrm{~V}_{\mathrm{R}}+0.0078 \mathrm{~V}_{12}-0.00627 \mathrm{~L}_{\mathrm{A}}$ | $D_{R}=4.252+0.0086 \mathrm{~V}_{12}-0.0009 \mathrm{~L}_{\mathrm{D}}$ |
| $\mathrm{D}_{\mathrm{R}}=$ (pc/mi/n) | $\mathrm{D}_{\mathrm{R}}=31.5(\mathrm{pc} / \mathrm{mi} / \mathrm{m})$ |
| LOS = (Exhibit 25-4) | LOS $=0$ (Exhibit 25-4) |
| Speed Estimation | Speed Estimation |
| $M_{S}=$ (Exibit 25-19) | $\mathrm{D}_{5}=0.498$ (Exhibil 25-19) |
| $S_{R}=$ mph(Exhibit $\left.25-19\right)$ | $S_{2}=56.1 \mathrm{mph}$ (Exhibit $\left.25-19\right)$ |
| $S_{0}=$ mph (Exhibit 25-19) | $S_{0}=\quad$ N/Amph (Exhibit 25-19) |
| $s=\quad \operatorname{mph}($ Exhibit $25-14$ ) | $S=56.1 \mathrm{mph}$ (Exhibit 25-15) |

RAMPS AND RAMP JUNCTIONS WORKSHEET

General Information
Site Information

| Analyst | EJB | Freeway/Dir of Travel | 1-75 Norlhbound |
| :--- | :--- | :--- | :--- |
| Agency or Company | HW Lochner, Inc. | Junction | SR 50/Conez Blvd. On-Ramp |
| Date Performed | $7 / 28 / 2005$ | Jurisdiction | Hernando County |
| Analysis Time Period | DHV | Analysis Year | 2005 |

Project Description 1-75 PD\&E Study - 2005 NB On Ramp al SR 50 (1-75 $=4$ Lanes)
inputs





## Conversion to pc/h Under Base Conditions

| (po/h) | $\begin{gathered} V \\ \text { (Veh/hr) } \end{gathered}$ | PHF | Terrain | \%Truck | \%RV | $\mathrm{f}_{\mathrm{HV}}$ | $f_{p}$ | $\begin{aligned} & V=V / P H F x \\ & f_{H V} \times f_{D} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 1520 | 0.94 | Leve | 14 | 2 | 0.931 | 0.95 | 1828 |
| Ramp | 510 | 0.89 | Level | 19 | 2 | 0.910 | 0.95 | 663 |
| UpStream | 350 | 0.89 | Level | 19 | 2 | 0.910 | 0.95 | 455 |
| DownStream |  |  |  |  |  |  |  |  |
| Merge Areas |  |  |  |  | Diverge Areas |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  | Estimation of $v_{12}$ |  |  |  |
| $\begin{aligned} & V_{12}=V_{F}\left(P_{F M}\right) \\ & L_{E O}=\text { (Equation 25-2 or 25-3) } \\ & P_{F M}=1.000 \text { using Equation (Exhibit 25-5) } \\ & V_{12}=1828 \mathrm{pch} \end{aligned}$ |  |  |  |  | $\begin{aligned} & \quad V_{12}=V_{R}+\left(V_{F} \cdot V_{R}\right) P_{F D} \\ & L_{E 0}=\text { (Equation 25-8 or 25-9) } \\ & P_{F D}=\text { using Equation (Exhibit 25-11) } \\ & V_{12}=\text { pch } \end{aligned}$ |  |  |  |

Capacity Checks
Capacity Checks

|  | Actual | Maximum | LOSF? |  | Actual | Maximum | LOSF? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $V_{\text {Fo }}$ | 2491 | See Exhibit 25-7 | No | $V_{\text {Fl }}=V_{F}$ |  |  |  |
|  |  |  |  | $V_{12}$ |  |  |  |
| $V_{R 12}$ | 2491 | 4600:All | No | $\begin{gathered} V_{F O}=V_{F}- \\ V_{R} \end{gathered}$ |  |  |  |
|  |  |  |  | $V_{R}$ |  |  |  |
| Level of Service Determination (if not F) |  |  |  | Level of Service Determination (if not F) |  |  |  |
| $\begin{aligned} & \quad D_{R}=5.475+0.00734 \mathrm{~V}_{R}+0.0078 \mathrm{~V}_{12}-0.00627 \mathrm{~L}_{\mathrm{A}} \\ & \mathrm{D}_{\mathrm{R}}= \\ & \mathrm{L}=\mathrm{C}=\mathrm{C}(\text { Exinibit } 25-4) \end{aligned}$ |  |  |  | $\begin{array}{ll}  & D_{R}=4.252+0.0086 \mathrm{~V}_{12}-0.0009 \mathrm{~L}_{\mathrm{D}} \\ \mathrm{D}_{\mathrm{R}}= & \text { (polmi/l/ }) \\ \mathrm{LOS}= & \text { (Exhibit 25-4) } \end{array}$ |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Speed Estimation |  |  |  | Speed Estimation |  |  |  |
| $S_{S}=$ 0.324 (Exibit 25-19) <br> $S_{R}=$ 60.9 mph (Exhibit 25-19) <br> $S_{0}=$ N/A mph (Exthbi 25-19) <br> $S=$ 60.9 mph (Exnibit 25-14) |  |  |  | $D_{S}=$ (Exhibit 25-19) <br> $S_{R}=$ mph (Exhibit 25-19) <br> $S_{0}=$ mph (Exhibit $25-19)$ <br> $S=$ mph (Exhibit 25-15) |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

## APPENDIX ' $F$ '

OPENING YEAR (2010) NO-BUILD INTERSECTION LOS


## TWO-WAY STOP CONTROL SUMMARY

General Information

| Analyst | JAS |
| :--- | :--- |
| Agency/Co. | HW Lochner. Inc. |
| Date Performed | $11 / 03 / 2006$ |
| Analysis Time Period | DHV |


| Intersection | 1-75 SB RampS/CR 41 |
| :--- | :--- |
| Uurisdiction | Pasco County |
| Analysis Year | Opening Year |
|  |  |

Project Description No Build Alternative - 2010 EastWest Street: CR 41/Blanton Road Intersection Orientation: East-West
North/South Street: $1-75$ SB Ramp
Study Period (hrs): 0.25

Vehicle Volumes and Adjustments

| Major Street | Eastbound |  |  | Westbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 2 | 3 | 4 | 5 | 6 |
|  | L | T | R | L | T | R |
| Volume (veh/h) |  | 185 | 184 | 176 | 357 |  |
| Peak-Hour Factor, PHF | 1.00 | 0.88 | 0.88 | 0.95 | 0.95 | 1.00 |
| Hourly Flow Rate, HFR (veh/h) | 0 | 210 | 209 | 185 | 375 | 0 |
| Percent Heavy Vehicles | 0 | -- | -- | 3 | - | -- |
| Median Type | Undivided |  |  |  |  |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 0 | 1 | 0 | 1 | 1 | 0 |
| Configuration |  |  | TR | L | $T$ |  |
| Upstream Signal |  | 0 |  |  | 0 |  |
| Minor Street | Northbound |  |  | Southbound |  |  |
| Movement | 7 | 8 | 9 | 10 | 11 | 12 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 75 |  | 65 |  |  |  |
| Peak-Hour Factor, PHF | 0.89 | 1.00 | 0.89 | 1.00 | 1.00 | 1.00 |
| Hourly Flow Rate, HFR (veh/h) | 84 | 0 | 73 | 0 | 0 | 0 |
| Percent Heavy Vehicles | 10 | 0 | 10 | 0 | 0 | 0 |
| Percent Grade (\%) | 0 |  |  | 0 |  |  |
| Flared Approach |  | N |  |  | N |  |
| Storage |  | 0 |  |  | 0 |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 1 | 0 | 1 | 0 | 0 | 0 |
| Configuration | $L$ |  | $R$ |  |  |  |

Delay, Queue Length, and Level of Service

| Approach | Eastbound | Westbound | Northbound |  |  | Southbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 4 | 7 | 8 | 9 | 10 | 11 | 12 |
| Lane Configuration |  | 1 | $L$ |  | R |  |  |  |
| $v$ (veh/h) |  | 185 | 84 |  | 73 |  |  |  |
| C (m) (veh/h) |  | 1135 | 201 |  | 708 |  |  |  |
| $\mathrm{v} / \mathrm{c}$ |  | 0.16 | 0.42 |  | 0.10 |  |  |  |
| 95\% queue length |  | 0.58 | 1.91 |  | 0.34 |  |  |  |
| Control Delay (s/veh) |  | 8.8 | 35.2 |  | 10.7 |  |  |  |
| LOS |  | A | E |  | B |  |  |  |
| Approach Delay (s/veh) | -- | $\cdots$ | 23.8 |  |  |  |  |  |
| Approach LOS | - | - | C |  |  |  |  |  |



| Approach Delay | 50.8 | 27.0 | 67.4 |  |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $D$ | $C$ | $E$ |  |
| Intersection Delay | 42.5 | $X_{C}=0.85$ | Intersection LOS | $D$ |
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| Approach Delay | 21.3 | 20.3 |  | 91.2 |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $C$ | $C$ | $F$ |  |
| Intersection Delay | 29.9 | $X_{C}=0.92$ | Intersection LOS | $C$ |
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## APPENDIX ' $G$ '

INTERIM YEAR (2020) NO-BULLD INTERSECTION LOS



| HCS ${ }^{\text {'* }}$ DETAILED REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| General Information |  |  |  |  |  |  | Site Information |  |  |  |  |  |  |  |
| Analyst $\quad$ JASAgency or Co. FDOTDate Performed $11 / 08 / 2006$Time Period |  |  |  |  |  |  | Intersection I-75 NB Ramps @ SR 50 <br> Area Type All other areas <br> Jurisdiction Hernando <br> Analysis Year <br> Project ID No Build Alternative - 2020 |  |  |  |  |  |  |  |
| Volume and Timing Input |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | EB |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  | LT | TH | R |  | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Number of Lanes, $\mathrm{N}_{1}$ |  |  | 3 |  |  |  | 3 | 1 | 1 |  | 1 |  |  |  |
| Lane Group |  |  | $T$ |  |  |  | T | $R$ | L |  | $R$ |  |  |  |
| Volume, V (vph) |  |  | 1882 |  |  |  | 2362 | 200 | 504 |  | 756 |  |  |  |
| \% Heavy Vehicles, \%HV |  |  | 6 |  |  |  | 6 | 6 | 6 |  | 6 |  |  |  |
| Peak-Hour Factor, PHF |  |  | 0.90 |  |  |  | 0.91 | 0.91 | 0.95 |  | 0.95 |  |  |  |
| Pretimed (P) or Actuated (A) |  | (A) A | A |  |  |  | A | A | A |  | A |  |  |  |
| Start-up Lost Time, It |  | 2.0 | 2.0 |  |  |  | 2.0 | 2.0 | 2.0 |  | 2.0 |  |  |  |
| Extension of Effective Green, |  |  | 2.0 |  |  |  | 2.0 | 2.0 | 2.0 |  | 2.0 |  |  |  |
| Arrival Type, AT |  |  | 3 |  |  |  | 3 | 3 | 3 |  | 3 |  |  |  |
| Unit Extension, UE |  |  | 3.0 |  |  |  | 3.0 | 3.0 | 3.0 |  | 3.0 |  |  |  |
| Filtering/Metering. 1 |  |  | 0 1.000 |  |  |  | 1.000 | 1.000 | -1.000 |  | 1.000 |  |  |  |
| Initial Unmet Demand, $\mathrm{Qb}^{\text {b }}$ |  |  | 0.0 |  |  |  | 0.0 | 0.0 | 0.0 |  | 0.0 |  |  |  |
| Ped / Bike / RTOR Volumes |  | es 0 | 0 |  |  | 0 | 0 | 0 | 0 | 0 | 220 |  |  |  |
| Lane Width |  | 12.0 | 12.0 |  |  |  | 12.0 | 12.0 | 12.0 |  | 12.0 |  |  |  |
| Parking / Grade / Parking |  | N | 0 | N |  | $N$ | 0 | N | N | 0 | N |  |  |  |
| Parking Maneuvers, Nm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Buses Stopping, NB |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 0 |  |  |  |
| Min. Time for Pedestrians, Gp |  |  | 3.2 |  |  | 3.2 |  |  | 3.2 |  |  |  |  |  |
| Phasing | EW Perm | Thru \& RT | 03 |  | 04 |  |  | NB Only |  | 06 | 07 |  | 08 |  |
| Timing | $G=27.5$ | $G=70.4$ | $G=$ |  |  | G = |  | $G=37.1$ |  | G = | G = |  | $\mathrm{G}=$ |  |
|  | $Y=5$ | $\mathrm{Y}=5$ | $Y=$ |  |  | = |  | $Y=5$ | Y |  | $Y=$ |  | $Y=$ |  |
| Duration of Analysis, $T=0.25$ |  |  |  |  |  |  |  |  |  | Cycle Length, $C=150.0$ |  |  |  |  |
| Lane Group Capacity, Control Delay, and LOS Determination |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | EB |  |  | WB |  |  |  | NB |  |  | SB |  |  |
|  |  | LT | TH | RT | L |  | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v |  | 622 | 2091 |  |  |  | 2596 | 549 | 531 |  | 564 |  |  |  |
| Lane Group Capacity, c |  | 312 | 3350 |  |  |  | 2292 | 1524 | 421 |  | 377 |  |  |  |
| v/c Ratio, $X$ |  | 1.99 | 0.62 |  |  |  | 1.13 | 0.36 | 1.26 |  | 1.50 |  |  |  |
| Total Green Ratio, g/C |  | 0.18 | 0.69 |  |  |  | 0.47 | 1.00 | 0.25 |  | 0.25 |  |  |  |
| Uniform Delay, $\mathrm{d}_{1}$ |  | 61.3 | 12.9 |  |  |  | 39.8 | 0.0 | 56.5 |  | 56.5 |  |  |  |
| Progression Factor, PF |  | 1.000 | 1.000 |  |  |  | 1.000 | 0.950 | 1.000 |  | 1.000 |  |  |  |
| Delay Calibration, k |  | 0.50 | 0.21 |  |  |  | 0.50 | 0.11 | 0.50 |  | 0.50 |  |  |  |
| Incremental Delay, $\mathrm{d}_{2}$ |  | 458.4 | 0.4 |  |  |  | 65.8 | 0.1 | 135.5 |  | 236.8 |  |  |  |
| Initial Queue Delay, $\mathrm{d}_{3}$ |  | 0.0 | 0.0 |  |  |  | 0.0 | 0.0 | 0.0 |  | 0.0 |  |  |  |
| Control Delay |  | 519.7 | 13.3 |  |  |  | 105.6 | 0.1 | 191.9 |  | 293.2 |  |  |  |
| Lane Group LOS |  | F | B |  |  |  | $F$ | A | F |  | F |  |  |  |


| Approach Delay | 129.4 | 87.2 | 244.1 |  |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $F$ | $F$ | $F$ | $F$ |
| Intersection Delay | 128.4 | $X_{C}=1.41$ | $\ln$ tersection LOS |  |



| Approach Delay 28.1 72.0  257.0 <br> Approach LOS $C$ $E$  $F$ <br> Intersection Delay 79.7 $X_{C}=3.78$ Intersection LOS $E$ |
| :--- |

## APPENDIX 'H'

DESIGN YEAR (2030) NO-BUILD INTERSECTION LOS


Vehicle Volumes and Adjustments

| Major Street | Eastbound |  |  | Westbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 2 | 3 | 4 | 5 | 6 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 436 | 246 |  |  | 713 | 114 |
| Peak-Hour Factor, PHF | 0.85 | 0.85 | 1.00 | 1.00 | 0.85 | 0.85 |
| Hourly Flow Rate, HFR (ven/h) | 512 | 289 | 0 | 0 | 838 | 134 |
| Percent Heavy Vehicles | 10 | -- | -- | 0 | -- | -- |
| Median Type | Undivided |  |  |  |  |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 1 | 1 | 0 | 0 | 1 | 0 |
| Configuration | L | $T$ |  |  |  | TR |
| Upstream Signal |  | 0 |  |  | 0 |  |
| Minor Street | Northbound |  |  | Southbound |  |  |
| Movement | 7 | 8 | 9 | 10 | 11 | 12 |
|  | L | T | R | L | T | R |
| Volume (veh/h) |  |  |  | 546 |  | 714 |
| Peak-Hour Factor, PHF | 1.00 | 1.00 | 1.00 | 0.91 | 1.00 | 0.91 |
| Hourly Flow Rate. HFR (veh/h) | 0 | 0 | 0 | 599 | 0 | 784 |
| Percent Heavy Vehicles | 0 | 0 | 0 | 9 | 0 | 6 |
| Percent Grade (\%) | 0 |  |  | 0 |  |  |
| Flared Approach |  | N |  |  | N |  |
| Storage |  | 0 |  |  | 0 |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 0 | 0 | 0 | 1 | 0 | 1 |
| Configuration |  |  |  | L |  | $R$ |

Delay, Queue Length, and Level of Service

| Approach | Eastbound | Westbound | Northbound |  |  | Southbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 4 | 7 | 8 | 9 | 10 | 11 | 12 |
| Lane Configuration | $L$ |  |  |  |  | L |  | R |
| $v$ (veh/h) | 512 |  |  |  |  | 599 |  | 784 |
| C (m) (veh/h) | 678 |  |  |  |  | 11 |  | 329 |
| $\mathrm{v} / \mathrm{c}$ | 0.76 |  |  |  |  | 54.45 |  | 2.38 |
| 95\% queue length | 6.94 |  |  |  |  | 76.44 |  | 61.64 |
| Control Delay (s/veh) | 24.8 |  |  |  |  | 24716 |  | 656.6 |
| LOS | C |  |  |  |  | F |  | $F$ |
| Approach Delay (s/veh) | -- | -- |  |  |  | 11077 |  |  |
| Approach LOS | - | - |  |  |  |  | F |  |


| TWO-WAY STOP CONTROL SUMMARY |  |  |  |
| :--- | :--- | :--- | :--- |
| General Information | Site Information |  |  |
| Analyst | JAS | Intersection | I-75 SB Ramps/CR 41 |
| Agency/Co. | HW Lochner. Inc. | Pasco County |  |
| Date Performed | $11 / 03 / 2006$ | Design Year |  |
| Analysis Time Period | DHV |  |  |

Project Description No Build Altermative - 2030
East/West Street: CR 41/Blanton Road
North/South Street: 1-75 SB Ramp
Intersection Orientation: East-West
Study Period (hrs): 0.25

| Vehicle Volumes and Adjustments |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Major Street | Eastbound |  |  | Westbound |  |  |
| Movement | 1 | 2 | 3 | 4 | 5 | 6 |
|  | L | T | R | L | T | R |
| Volume (veh/h) |  | 484 | 480 | 510 | 918 |  |
| Peak-Hour Factor, PHF | 1.00 | 0.88 | 0.88 | 0.95 | 0.95 | 1.00 |
| Hourly Flow Rate, HFR (veh/h) | 0 | 550 | 545 | 536 | 966 | 0 |
| Percent Heavy Vehicles | 0 | -- | -- | 3 | -- | -- |
| Median Type | Undivided |  |  |  |  |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 0 | 1 | 0 | 1 | 1 | 0 |
| Configuration |  |  | TR | $L$ | $T$ |  |
| Upstream Signal |  | 0 |  |  | 0 |  |
| Minor Street | Northbound |  |  | Southbound |  |  |
| Movement | 7 | 8 | 9 | 10 | 11 | 12 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 232 |  | 198 |  |  |  |
| Peak-Hour Factor, PHF | 0.89 | 1.00 | 0.89 | 1.00 | 1.00 | 1.00 |
| Hourly Flow Rate, HFR (veh/h) | 260 | 0 | 222 | 0 | 0 | 0 |
| Percent Heavy Vehicles | 10 | 0 | 10 | 0 | 0 | 0 |
| Percent Grade (\%) | 0 |  |  | 0 |  |  |
| Flared Approach |  | N |  |  | N |  |
| Storage |  | 0 |  |  | 0 |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 1 | 0 | 1 | 0 | 0 | 0 |
| Configuration | L |  | $R$ |  |  |  |

Delay, Queue Length, and Level of Service

| Approach | Eastbound | Westbound | Northbound |  |  | Southbound |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 4 | 7 | 8 | 9 | 10 | 11 | 12 |
| Lane Configuration |  | $L$ | $L$ |  | $R$ |  |  |  |
| v(veh/h) |  | 536 | 260 |  | 222 |  |  |  |
| C(m)(veh/h) |  | 634 | 3 |  | 362 |  |  |  |
| v/c |  | 0.85 | 86.67 |  | 0.61 |  |  |  |
| 95\% queue length |  | 9.32 | 34.92 |  | 3.89 |  |  |  |
| Control Delay (s/veh) |  | 33.9 | 40933 |  | 29.5 |  |  |  |
| LOS |  | $D$ | $F$ |  | $D$ |  |  |  |
| Approach Delay (s/veh) | $\cdots$ | $\cdots$ | 22094 |  |  |  |  |  |
| ApproachLOS | $\cdots$ | $\cdots$ | $F$ |  |  |  |  |  |



| Approach Delay 214.0 240.7 497.7  <br> Approach LOS $F$ $F$ $F$  <br> Intersection Delay 271.5 $X_{c}=1.98$ Intersection LOS $F$ |
| :--- |



| Approach Delay 92.0 114.5  488.1 <br> Approach LOS $F$ $F$  $F$ <br> Intersection Delay 156.7 $X_{c}=5.75$ Intersection LOS $F$ |
| :--- |

## APPENDIX 'I'

OPENING YEAR (2010) NO BUILD FREEWAY SEGMENT AND RAMP LOS


## BASIC FREEWAY SEGMENTS WORKSHEET




Calculate Flow Adjustments


| BASIC FREEWAY SEGMENTS WORKSHEET |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| General Information $\quad$ Site Information |  |  |  |  |  |
| Analyst <br> Agency or Company <br> Date Performed <br> Analysis Time Period | CRH <br> HW Lochner, Inc. $\begin{aligned} & 10 / 26 / 06 \\ & \mathrm{DHV} \end{aligned}$ | Highwa <br> From/T <br> Jurisdic <br> Analys | tion of Travel | 1-75 Northboun <br> North of SR 50 <br> Hernando Coun <br> 2010 |  |
| Project Description 1-75 PD\&E - 2010 NB North of SR 50 (1-75 = 4 Lanes) |  |  |  |  |  |
| $\sqrt{ }$ Oper.(LOS) |  | es.(N) |  | P Planning |  |
| Flow Inputs |  |  |  |  |  |
| volume, V <br> AADT <br> Peak-Hr Prop. of AADT, K <br> Peak-Hr Direction Prop, D <br> DDHV = AADT $\times K \times D$ <br> Jriver type adjustment | 2900 veh/h <br> veh/day <br> 0.95 veh/h | Peak-H <br> \%Truck <br> \%RVs. <br> Genera <br> Grade | tor, PHF Buses, $\mathrm{P}_{\mathrm{T}}$ <br> n: <br> Length p/Down \% | $\begin{aligned} & \hline 0.94 \\ & 14 \\ & 2 \\ & \text { Level } \\ & \text { mi } \end{aligned}$ |  |
| Calculate Flow Adjustments |  |  |  |  |  |
| $\mathrm{E}_{\mathrm{p}}$ | 0.95 1.5 | $E_{R}$ $f_{H V}=$ | $\left.11+P_{R}\left(E_{R}-1\right)\right]$ | 1.2 0.931 |  |
| Speed Inputs |  | Calc Speed Adj and FFS |  |  |  |
| Lane Width <br> Rt-Shoulder Lat. Clearance <br> interchange Density <br> Number of Lanes, $N$ <br> FFS (measured) <br> Base free-flow Speed, BFFS | 12.0 ft <br> 6.0 ft <br> 0.50 lmi <br> 2  <br>  $\mathrm{mi} / \mathrm{h}$ <br> 75.0 $\mathrm{mi} / \mathrm{h}$ | $\begin{aligned} & f_{L W} \\ & f_{L C} \\ & f_{1 D} \\ & f_{N} \\ & F F S \end{aligned}$ |  | 0.0 0.0 0.0 0.0 75.0 | $\mathrm{mi} / \mathrm{h}$ <br> $\mathrm{mi} / \mathrm{h}$ <br> $\mathrm{mi} / \mathrm{h}$ <br> milh <br> $\mathrm{mi} / \mathrm{h}$ |
| LOS and Performance Measures |  | Design (N) |  |  |  |
| Operational (LOS) |  | Desion (N) <br> Design LOS $\begin{array}{ll} v_{p}=(V \text { or } D D H V) /\left(P H F \times N \times f_{H V} \times\right. & \mathrm{pc} / \mathrm{h} \\ \left.f_{p}\right) & \mathrm{mi} / \mathrm{h} \\ S & \mathrm{pcimi} / \mathrm{ln} \end{array}$ <br> Required Number of Lanes, $N$ |  |  |  |
| $3 l o s s a r y$ |  | Factor Location |  |  |  |
| $\begin{cases}\mathrm{N} \text { - Number of lanes } & \mathrm{S} \text { - Speed } \\ \mathrm{V} \text { - Hourly volume } & \text { D - Density } \\ \mathrm{V}_{\mathrm{p}} \text { - Flow rate } & \text { FFS - Free-flow speed } \\ \text { LOS - Level of service } & \text { EFFS - Base free-flow speed }\end{cases}$ |  | $E_{R}-$ Exhibits23-8, 23-10 $f_{L W}-$ Exhibit 23-4 <br> $E_{T}$ - Exhibits 23-8, 23-10, 23-11 $f_{L C}-$ Exhibit 23-5 <br> $f_{0}$-Page 23-12 $f_{N}-$ Exhibit 23-6 |  |  |  |






## Calculate Flow Adjustments



DDDHV - Directional design hour volume LOS. S. FFS, $v_{p}$ - Exhibits 23-2, 23-3 $\quad f_{10}$ - Exhibit 23-7Copyright © 2005 University of Florida, All Rights Reserved


RAMPS AND RAMP JUNCTIONS WORKSHEET
General Information

## Site Information

| Analyst | CRH | Freeway/Dir of Travel | 1.75 Northbound |
| :---: | :---: | :---: | :---: |
| Agency or Company | HW Lochner, inc. | Junction | CR 41/Blanton Rd On-Ramp |
| Date Performed | 7/28/2005 | Jurisdiction | Pasco County |
| Analysis Time Period | DHV | Analysis Year | 2010 |
| Project Description 1-75 FD\&E Study - 2010 NB On Ramp at CR 41 (1-75 $=4$ Lanes) |  |  |  |
| Inputs |  |  |  |
| Upstream Adj Ramp | Terrain: Level |  |  |
|  |  |  | Downstream Adj Ramp |
| F yes Ton |  |  | $\Gamma$ ves 「on |
| TNo Foff |  |  | FNo TOH |
|  |  |  | $L_{\text {down }}=\mathrm{ft}$ |
| $v_{u}=460 \mathrm{veh} / \mathrm{h}$ | $\begin{array}{r} \mathrm{S}_{\mathrm{fF}}=70.0 \mathrm{mph} \\ \text { Sketch } \end{array}$ | $S_{F R}=35.0 \mathrm{mph}$ <br> lanes, $L_{A}, L_{D}, V_{R} \cdot V_{\mathrm{t}}$ ) | $v_{0}=\quad \mathrm{veh} / \mathrm{h}$ |

## Conversion to pc/h Under Base Conditions

| ( pch ) | V (Veh/hr) | PHF | Terrain | \%Truck | \%Rv | Itiv | $\mathrm{f}_{\mathrm{p}}$ | $\begin{aligned} & v=\mathrm{V} / \mathrm{PHF} \times \\ & \mathrm{H}_{1+} \times i_{p} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 2910 | 0.94 | Leve! | 14 | 1 | 0.933 | 0.95 | 3493 |
| Ramp | 180 | 0.91 | Level | 10 | 1 | 0.951 | 0.95 | 219 |
| UpStream | 460 | 0.91 | Level | 10 | 1 | 0.951 | 0.95 | 560 |
| DownStream |  |  |  |  |  |  |  |  |
| Merge Areas |  |  |  |  | Diverge Areas |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  | Estimation of $v_{12}$ |  |  |  |
| $V_{12}=V_{F}\left(P_{F M}\right)$ |  |  |  |  | $V_{12}=V_{R}+\left(V_{F}-V_{R}\right) P_{F D}$ |  |  |  |
| $L_{E O}=$ (Equation $25-2$ or $25-3$ ) |  |  |  |  | $L_{E O}=$ (Equation $25-8$ or 25-9) |  |  |  |
| $P_{F M}=1.000$ using Equation (Exhibit 25-5) |  |  |  |  | $P_{F D}=$ using Equation (Exhibit 25-11) |  |  |  |

Capacity Checks

## Capacity Checks





Conversion to pc/h Under Base Conditions

| (pch) | $\begin{gathered} V \\ (V \in h / h r) \end{gathered}$ | PHF | Terrain | \%Truck | \%Rv | $\mathrm{I}_{\mathrm{HV}}$ | $i_{p}$ | $\begin{aligned} & V=V / P H F x \\ & F_{H V} \times f_{p} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 2250 | 0.94 | Level | 14 | 1 | 0.933 | 0.95 | 2701 |
| Ramp | 360 | 0.89 | Level | 10 | 1 | 0.951 | 0.95 | 448 |
| UpSitream | 140 | 0.89 | Level | 10 | 1 | 0.951 | 0.95 | 174 |
| DownSIream |  |  |  |  |  |  |  |  |
| Merge Areas |  |  |  |  | Diverge Areas |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  | Estimation of $v_{12}$ |  |  |  |
| $V_{12}=V_{F}\left(P_{F M}\right)$ |  |  |  |  | $V_{12}=V_{R}+\left(V_{F}-V_{R}\right) P_{F D}$ |  |  |  |
| $L_{E O}=$ (Equation 25-2 or 25-3) |  |  |  |  | $L_{E O}=$ (Equation 25-8 or 25-9) |  |  |  |
| $\mathrm{P}_{\mathrm{FM}}=1.000$ using Equation (Exhibit 25-5) |  |  |  |  | $\mathrm{P}_{\mathrm{FD}}=$ using Equation (Exhibit 25-11) |  |  |  |
| $V_{12}=2701 \mathrm{pch}$ |  |  |  |  | $v_{12}=p c h$ |  |  |  |

Capacity Checks
Capacity Checks

|  | Actual | Maximum | LOS F? |  | Actual | Maximum | LOS F? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $V_{\text {FO }}$ | 3149 | See Exhibit 25-7 | No | $\mathrm{V}_{\mathrm{Ft}}=\mathrm{V}_{\mathrm{F}}$ |  |  |  |
|  |  |  |  | $V_{12}$ |  |  |  |
| $V_{\text {R12 }}$ | 3149 | 4600:All | No | $\begin{gathered} V_{F O}=V_{F} . \\ V_{R} \end{gathered}$ |  |  |  |
|  |  |  |  | $V_{R}$ |  |  |  |
| Level of Service Determination (if not F) |  |  |  | Level of Service Determination (if not F) |  |  |  |
| $\begin{aligned} & \quad D_{R}=? \\ & D_{R}= \\ & L_{S}= \end{aligned}$ | 0.00734 ( ${ }^{\text {a }}$ (mi/n) bit 25-4) | ${ }_{R}+0.0078 V_{12}-0$. |  | $\begin{cases}D_{R}= & \text { (pc/mi/n) } \\ \text { LOS }= & \text { (Exhibit } 25-4)\end{cases}$ |  |  |  |
| Speed Estimation |  |  |  | Speed Estimation |  |  |  |
| $\begin{array}{ll} M_{S}= & 0.3 \\ S_{R}= & 60 \\ S_{0}= & \mathrm{N} / 2 \\ S= & 60 \end{array}$ | bit 25-19) (Exhibit 29 Exhibit 25 Exhibit 2 |  |  | $\begin{array}{ll}D_{S}= & \text { E } \\ S_{R}= & m p \\ S_{0}= & m p \\ S= & m p\end{array}$ | 25-19) <br> xhibit 25 <br> xhibit 25 <br> xhibi 25 |  |  |






## Conversion to pc/h Under Base Conditions

| ( $\mathrm{pch} / \mathrm{h}$ | V (Vehihr) | PHF | Terrain | \%Truck | \%Rv | $\mathrm{f}_{\mathrm{HV}}$ | $f_{p}$ | $\begin{aligned} & V=V / P H F \times \\ & f_{H V} \times f_{p} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 1720 | 0.94 | Level | 14 | 2 | 0.931 | 0.95 | 2069 |
| Ramp | 670 | 0.89 | Level | 19 | 2 | 0.910 | 0.95 | 871 |
| UpStream | 520 | 0.89 | Level | 19 | 2 | 0.910 | 0.95 | 676 |
| DownStream |  |  |  |  |  |  |  |  |
| Merge Areas |  |  |  |  | Diverge Areas |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  | Estimation of $v_{12}$ |  |  |  |
| $\begin{aligned} & V_{12}=V_{F}\left(P_{F M}\right) \\ & L_{E O}=\text { (Equation 25-2 or 25-3) } \\ & P_{F M}=1.000 \text { using Equation (Exhibit 25-5) } \\ & V_{12}=2069 \mathrm{pch} \end{aligned}$ |  |  |  |  | $\begin{aligned} & \quad V_{12}=V_{R}+\left(V_{F} \cdot V_{R}\right) P_{F D} \\ & L_{E O}=\text { (Equation 25-8 or 25-9) } \\ & P_{F D}=\text { using Equation (Exhitit 25-11) } \\ & V_{12}=\text { pc/h } \end{aligned}$ |  |  |  |

Capacity Checks
Capacity Checks

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \& Actual \& Maximum \& LOS F? \& \& Actual \& Maximum \& LOS F? <br>
\hline \multirow[b]{2}{*}{$V_{\text {Fo }}$} \& \multirow[b]{2}{*}{2940} \& \multirow[b]{2}{*}{See Exhibit 25-7} \& \multirow[b]{2}{*}{No} \& $V_{\text {Fl }}=V_{F}$ \& \& \& <br>
\hline \& \& \& \& $V_{12}$ \& \& \& <br>
\hline \multirow[t]{2}{*}{$V_{\text {R12 }}$} \& \multirow[t]{2}{*}{2940} \& \multirow[t]{2}{*}{4600:All} \& \multirow[t]{2}{*}{No} \& $$
\begin{gathered}
V_{\mathrm{FO}}=V_{F} . \\
V_{R}
\end{gathered}
$$ \& \& \& <br>
\hline \& \& \& \& $V_{R}$ \& \& \& <br>
\hline \multicolumn{4}{|l|}{Level of Service Determination (if not $F$ )} \& \multicolumn{4}{|l|}{Level of Service Determination (if not F)} <br>
\hline $$
\begin{aligned}
& \quad D_{R}= \\
& D_{R}= \\
& \operatorname{LOS}=
\end{aligned}
$$ \& 0.00734

dillin)

bit 25-4) \& $+0.0078 \mathrm{~V}_{12}-0$. \& \& \multicolumn{2}{|l|}{\[
$$
\begin{cases}D_{R}= & \text { (pc/milin) } \\ \text { LOS }= & \text { (Exhibit 25-4) }\end{cases}
$$

\]} \& \[

36 V_{12}-0.000
\] \& <br>

\hline \multicolumn{4}{|l|}{Speed Estimation} \& \multicolumn{2}{|l|}{Speed Estimation} \& \& <br>

\hline $$
\begin{array}{ll}
M_{S}= & 0 . \\
S_{R}= & 60 \\
S_{0}= & N \\
S= & 60
\end{array}
$$ \& Eit $25-19$ \& \& \& $\begin{array}{ll}\mathrm{D}_{\mathrm{s}}= & \text { E } \\ S_{R}= & \mathrm{m} \\ S_{0}= & \mathrm{m} \\ \mathrm{S}= & \mathrm{m}\end{array}$ \& $25-19)$

xhibit 25
xhibit 25
xhibit 25 \& \& <br>
\hline
\end{tabular}

## APPENDIX ' $J$ '

INTERIM YEAR (2020) NO BUILD FREEWAY SEGMENT AND RAMP LOS


## BASIC FREEWAY SEGMENTS WORKSHEET



Calculate Flow Adjustments


[^0]

## BASIC FREEWAY SEGMENTS WORKSHEET



Calculate Flow Adjustments




| General Information |  | Site Information |  |
| :--- | :--- | :--- | :--- |
| Analyst | CRH | Highway/Direction of Travel | I-75 Southbound |
| Agency or Company | HW Lochner, Inc. | From/To | CR 41 to SR 50 |
| Date Performed | $10 / 26 / 06$ | Jurisdiction | Hernando County |
| Analysis Time Period | DHV | Analysis Year | 2020 |

Project Description 1-75 PD\&E Study-2020 SB CR 4110 SR 50 ( $1-75=4$ Lanes)


## Calculate Flow Adjustments

| $\mathrm{f}_{\mathrm{p}}$ | 0.95 |  | $E_{R}$ 1.2 <br> $f_{H V}=1 / 1+P_{T}\left(E_{f}-1\right)+P_{R}\left(E_{R}-1\right)$ 0.933 |  |
| :---: | :---: | :---: | :---: | :---: |
| Speed Inputs |  |  | Calc Speed Adj and FFS |  |
| Lane Width <br> Rt-Shoulder Lat. Clearance <br> Interchange Density <br> Number of Lanes, N <br> FFS (measured) <br> Base free-flow Speed, BFFS | $\begin{aligned} & 12.0 \\ & 6.0 \\ & 0.50 \\ & 2 \\ & \\ & 75.0 \end{aligned}$ | ft ft $\mathrm{l} / \mathrm{mi}$ $\mathrm{mi} / \mathrm{h}$ $\mathrm{mi} / \mathrm{h}$ | $f_{L W}$ 0.0 <br> $f_{L C}$ 0.0 <br> $f_{\mathrm{LD}}$ 0.0 <br> $f_{N}$ 0.0 <br> $F F S$ 75.0 | $\mathrm{mi} / \mathrm{h}$ $\mathrm{mi} / \mathrm{h}$ $\mathrm{mi} / \mathrm{h}$ $\mathrm{mi} / \mathrm{h}$ $\mathrm{mi} / \mathrm{h}$ |
| LOS and Performance Measures |  |  | Design (N) |  |
| Operational (LOS) $\left\{\begin{array}{l} v_{p}=(V \text { or } D D H V) /(P H F \times N \times \\ \left.f_{p}\right) \\ S \\ D=v_{p} / S \\ \text { LOS } \end{array}\right.$ | $\begin{array}{ll} \mathrm{f}_{\mathrm{HV}} \mathrm{x} & 1921 \\ & \\ & 68.8 \\ & 27.9 \\ & \mathrm{D} \end{array}$ | $\mathrm{pc} / \mathrm{h} / \mathrm{hn}$ <br> $\mathrm{mi} / \mathrm{h}$ <br> $\mathrm{pc} / \mathrm{mi} / \mathrm{ln}$ | $\begin{aligned} & \text { Design (N) } \\ & \text { Design LOS } \\ & v_{p}=(V \text { or DDHV }) /\left(P H F \times N \times f_{H V} \times\right. \\ & \left.f_{p}\right) \\ & S \\ & D=v_{p} / S \end{aligned}$ <br> Required Number of Lanes, N | milh $\mathrm{pc} / \mathrm{mi} / \mathrm{ln}$ |
| Glossary |  |  | Factor Location |  |
| N - Number of lanes <br> $N$ - Houfly volume <br> $v_{p}$ - Flow rate <br> LOS - Level of service | S. Speed <br> D - Density <br> FFS - Free-flow speed <br> BFFS - Base free-flow speed |  | $\begin{aligned} & E_{R} \text { - Exhibits23-8, 23-10 } \\ & E_{T} \text { - Exhibits } 23-8,23-10,23-11 \\ & f_{D} \text { - Page 23-12 } \end{aligned}$ | $\begin{aligned} & f_{\text {LW }}-\text { Exhibit } 23-4 \\ & f_{L C}-\text { Exhibit } 23-5 \\ & f_{N} \text { - Exhibit } 23-6 \end{aligned}$ |




| Input | Oupput |
| :---: | :---: |
| FFS, $\mathrm{N}, \mathrm{v}_{\mathrm{p}}$ | LOS.S.D |
| FFS, LOS, $v_{0}$ | N, S, D |
| FFS, LOS, H | $Y_{6}, S, D$ |
| FFS, N, AB ${ }^{\text {d }}$ | LOS. S. D |
| FFS, LOS, AADT | M, S. D |
| FFS, LOS, N | $V_{1 F} S .0$ |

General Information
Analyst
Agency or Company
Date Performed
Analysis Time Period
Project Description 1-75 PD\&E - 2020 SB South of CR 41 (1-75 = 4 Lanes)
FOper.(LOS) $\quad$ Des.(N) F Planning Data
Flow Inputs

| Volume. V | 3590 | veh/h veh/day | Peak-Hour Factor, PHF \%Trucks and Buses, P |  |  | $\begin{aligned} & 0.94 \\ & 14 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AADT |  |  |  |  |  |  |
| Peak-Hr Prop. of AADT, K |  | veh/h | \%RVs, $\mathrm{P}_{\mathrm{R}}$ |  |  | 1 |
| Peak-Hr Direction Prop, D | 0.95 |  | General Terrain: |  |  | Level |
| DDHV = AADT $\times K \times D$ |  |  | Grade | \% | Length | mi |
| Driver type adjustment |  |  |  |  | /Down |  |

Calculate Flow Adjustments



| RAMPS AND RAMP JUNCTIONS WORKSHEET |  |  |  |
| :---: | :---: | :---: | :---: |
| General Information |  | Site Information |  |
| Analyst | CRH | Freeway/Dir of Travel | 1.75 Norihbound |
| Agency or Company | HW Lochner, Inc. | Junction | CR 41/Bianton Road Off-Ramp |
| Date Performed | $10 / 26106$ | Jurisdiction | Pasco County |
| Analysis Time Period | DHV | Analysis Year | 2020 |
| Project Description 1.75 PD\&E Study - 2020 NB Off Ramp at CR 41 (1-75 $=4$ Lanes) |  |  |  |
| Inputs |  |  |  |
| Upstream Adj Ramp | Terrain: Level |  | Downstream Adj |
| Tres Ton |  |  | Ramp |
| FVo TOff |  |  | $\begin{array}{ll}\text { FYes } & \text { Fon } \\ \text { 「No } & \text { roft }\end{array}$ |
| $=\mathrm{ft}$ |  |  | $\mathrm{d}_{\text {down }}=620 \mathrm{ft}$ |
| $v_{u}=v e h / h$ | $S_{\text {FF }}=70.0 \mathrm{mph}$ | $S_{F R}=35.0 \mathrm{mph}$ | $\mathrm{V}_{\mathrm{D}}=370 \mathrm{veh} / \mathrm{h}$ |

## Conversion to pc/h Under Base Conditions

| (pchin) | $\begin{gathered} V \\ (\mathrm{Veh} / \mathrm{hr}) \end{gathered}$ | PHF | Terrain | \%Truck | \%Rv | $\mathrm{f}_{\mathrm{HV}}$ | $\mathrm{f}_{\mathrm{p}}$ | $\begin{aligned} & =\mathrm{V} / \mathrm{PHF} \times \\ & f_{H V} \times f_{p} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 4530 | 0.94 | Level | 14 | 1 | 0.933 | 0.95 | 5438 |
| Ramp | 860 | 0.91 | Leve! | 10 | 1 | 0.951 | 0.95 | 1047 |
| UpStream |  |  |  |  |  |  |  |  |
| DownStream | 370 | 0.91 | Level | 10 | 1 | 0.951 | 0.95 | 450 |
| Merge Areas |  |  |  |  | Diverge Areas |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  | Estimation of $v_{12}$ |  |  |  |
| $\begin{aligned} & L_{E O}=\text { Equ } \\ & P_{F M}=\text { using } \\ & V_{12}=p \mathrm{c} / \mathrm{h} \end{aligned}$ | tion 25- <br> Equation | $\begin{aligned} & =V_{F}(F \\ & 25-3) \end{aligned}$ Exhibit? |  |  | $L_{\text {EO }}=$ $P_{\text {FD }}=1$ $V_{12}=5$ | uation | $V_{R}+$ $25-9$ | $\left.-V_{R}\right) P_{F D}$ <br> it 25-11) |

Capacity Checks
Capacity Checks

|  | Actual | Maximum | LOSF? |  | Actual | Maximum | LOSF? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $V_{\text {Fo }}$ |  |  |  | $V_{F 1}=V_{F}$ | 5438 | 4800 | Yes |
|  |  |  |  | $V_{12}$ | 5438 | 4400:All | Yes |
| $V_{R 12}$ |  |  |  | $\begin{gathered} V_{F O}=V_{F}- \\ V_{R} \end{gathered}$ | 4391 | 4800 | No |
|  |  |  |  | $V_{R}$ | 1047 | 2000 | No |
| Level of Service Determination (if not F) |  |  |  | Level of Service Determination (if not F) |  |  |  |
| $D_{R}=5.475+0.00734 V_{R}+0.0078 V_{12}-0.00627 L_{A}$ |  |  |  | D $D_{R}=$ $L O S$ L | ( $252+$ | $6 V_{12}-0$. |  |
| Speed Estimation |  |  |  | Speed Estimation |  |  |  |
| $\begin{array}{ll} M_{S}= & \text { (Exibit 25-19) } \\ S_{R}= & \text { mph (Exhibit 25-19) } \\ S_{0}= & \text { mph (Exhibit 25-19) } \\ S= & \text { mph (Exhibit 25-14) } \end{array}$ |  |  |  | $\begin{array}{ll} \mathrm{D}_{\mathrm{S}}= & 0.522(\text { Exhibit 25-19) } \\ S_{R}= & 55.4 \mathrm{mph}(\text { Exhibit 25-19) } \\ S_{0}= & \text { N/A mph (Exhibit 25-19) } \\ S_{=}= & 55.4 \mathrm{mph}(\text { Exhibit } 25-15) \end{array}$ |  |  |  |




# Florida Department of Transportation 

605 Sumonee 5 tree<br>Tollohosse Fl 32399.0450


SECRETAKy

October 20. 2006

## Thomas Neyet P E

Regiona Vice President
H W LOCHNER INC
5850 T. G. Lee Blva, Sulte 320
mmando Forda 32822

Dea! M Neye:
The Fiorma Department of Thanspontath has reviewed you appication for qualication package and detommed Hat the data summed is adequate to quatity your firm for the followng types of work

| Group 2 | - Project Development and Enviromental (PD\&E) Sudies |
| :---: | :---: |
| Groum 3 | - Hignway Design - Roadway |
| 31 | - Mnor Highway Design |
| 32 | - Major Highway Design |
| 33 | - Complex Highway Design |
| Groun * | - Highway Design Bridges |
| $4: 1$ | - Miscellaneous Structures |
| 412 | - Minor Bridge Design |
| 421 | - Maror Bridge Design - Concrete |
| 422 | - Major Bridge Design - Stee |
| Group 5 | - Bridge Inspection |
| 51 | - Conventionat Endge Inspection |
| 52 | - Moveble Bridge Inspection |
| 53 | - Complex Bricge Inspection |
| 54 | - Bndge Load Rating |
| Group 5 | - Traffic Engmeerng and Operatons Studies |
| 61 | - Tratic Engineering Studes |
| 52 | - Traffic Signal Tming |
| 631 | - Inteligen Transpontation Systems Araiysis and Design |
| 632 | - Intelligent Transportation Systems Implementation |
| Grom? | Trafic Operations Design |
| $7 \cdot$ | Signing. Pavement Markig and Chamelization |
| 72 | Lightug |
| 73 | Signamzation |

101 - Roadway Construction Engmeenng Inspection
103 - Construction Materals Inspection
104 - Minor Bridge \& Miscellaneous Structures CEI
Group 11 - Engineering Contract Admnistration and Management

## Group 13 - Planning

133 - Policy Planning
134 - Systems Planning
135 - SubarealCorridor Plannng
136 - Land Planning/Engineering
137 - Transportation Statistics

Your Unlimited Notice of Qualfication shall be valid unt Octooer 31,2007 at such time as your April 30,2007 overhead audt will be due to comply with the Department's requirement on overhead audits. We will automatically notify your firm 45 to 60 days prior to your update deadine

On the basis of data submited the Department has approved your accounting system and considers the rates inted below as acceptable rates for qualification purposes

Overhead Rate

| Home/Branch | Field |
| :--- | :--- |
| $\frac{\text { Office }}{16555 \%}$ | $\frac{\text { Office }}{127.94 \%}$ |


| Facinties <br> Capital Cost <br> of Money |  |
| :--- | :--- |
| $0.396 \%$ | Direct Expense |

Should you have any questions, please feet free to contact me at 850/414-4485

Sincerely.

# Roeraine E Odom 

Lorraine E. Odom
Professional Services
Qualification Administrator

LEOSm



Conversion to pc/h Under Base Conditions





## APPENDIX ' $K$ '

DESIGN YEAR (2030) NO BUILD FREEWAY SEGMENT AND RAMP LOS



Calculate Flow Adjustments



| DDHV - Directional design hour volume | LOS, S, FFS, $\mathrm{v}_{\mathrm{p}}$ - Exhibits 23-2, 23-3 | $\mathrm{f}_{1 \mathrm{D}}$ - Exhibit 23-7 |
| :---: | :---: | :---: |
|  |  |  |




## Calculate Flow Adjustments



| DDHV - Directional design hour volume | LOS, S, FFS, $\mathrm{v}_{p}$ - Exhibits 23-2, 23-3 | $\mathrm{f}_{10}$ - Exhibit 23-7 |
| :---: | :---: | :---: |
| Copyright © 2005 University of Florida. All Rights Reserved | $\mathrm{HCS}+^{\text {TM }}$ Version 5.2 Ge | 3ted: 11/8/2006 3:46 PM |




Gle://C:Documents $\% 20$ and $\% 20$ Settings rhucbschmanLocal $\% 20$ SettingsTemp f2k510.tmp





Calculate Flow Adjustments

DODHV - Directional design hour volume $\quad$ LOS, S, FFS, v. - Exhibits 23-2.23-3 $f_{10}$ - Exhibit 23-7




## RAMPS AND RAMP JUNCTIONS WORKSHEET

General Information
Site Information


| (pc/h) | $\begin{gathered} v \\ \text { (Vehhr) } \end{gathered}$ | PHF | Terrain |  | \%Truck | \%Rv | $\mathrm{f}_{\mathrm{HV}}$ |  | $\mathrm{f}_{0}$ | $\begin{aligned} & V=\mathrm{VIPHF} x \\ & \mathrm{fH}_{\mathrm{H} \times \mathrm{f}_{\mathrm{p}}} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 3520 | 0.94 | Level |  | 14 | 1 | 0.933 |  | 0.95 | 4226 |  |
| Ramp | 990 | 0.89 | Level |  | 10 | 1 | 0.951 |  | 0.95 | 1232 |  |
| UpStream | 430 | 0.89 | Level |  | 10 | 1 | 0.951 |  | 0.95 | 535 |  |
| DownStream |  |  |  |  |  |  |  |  |  |  |  |
| Merge Areas |  |  |  |  |  | Diverge Areas |  |  |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  |  | Estimation of $v_{12}$ |  |  |  |  |  |
| $\begin{aligned} & \quad V_{12}=V_{F}\left(P_{F M}\right) \\ & L_{E O}=\text { (Equation 25-2 or 25-3) } \\ & P_{F M}=1.000 \text { using Equation (Exhibit 25-5) } \\ & V_{12}=4226 \text { pch } \end{aligned}$ |  |  |  |  |  | $\begin{aligned} & \quad V_{12}=V_{R}+\left(V_{F} \cdot V_{R}\right) P_{F D} \\ & L_{E O}=\text { (Equation 25-8 or 25-9) } \\ & P_{F D}=\text { using Equation (Extibi1 25-11) } \\ & V_{12}=\mathrm{pch} \end{aligned}$ |  |  |  |  |  |
| Capacity Checks |  |  |  |  |  | Capacity Checks |  |  |  |  |  |
|  | Actual | Maximum |  | LOS F? |  | $\square$ |  |  | Maximum |  | LOSF? |
| $V_{\text {Fo }}$ | 5458 | See Exhibit 25-7 |  | Yes |  | $\mathrm{V}_{\mathrm{Fl}}=\mathrm{V}_{\mathrm{F}}$ |  |  |  |  |  |
|  |  |  |  | $V_{12}$ |  |  |  |
| $V_{\text {R12 }}$ | 5458 |  |  |  |  | Yes |  | $\begin{gathered} V_{F O}=V_{F} \\ V_{R} \end{gathered}$ |  |  |  |  |  |
|  |  |  |  | $V_{\text {R }}$ |  |  |  |  |  |  |  |
| Level of Service Determination (if not F) |  |  |  |  |  | Level of Service Determination (if not F) |  |  |  |  |  |
| $\begin{aligned} & \quad D_{R}=5.475+0.00734 \mathrm{~V}_{\mathrm{R}}+0.0078 \mathrm{~V}_{12}-0.00627 \mathrm{~L}_{\mathrm{A}} \\ & \mathrm{O}_{\mathrm{R}}= \\ & \mathrm{H}= \\ & \mathrm{Cl}=\mathrm{F}(\text { Exhibil 25-4) }) \end{aligned}$ |  |  |  |  |  | $\begin{aligned} & D_{R}= \\ & \text { LOS }= \end{aligned}$ | $\begin{aligned} & \quad D_{R}= \\ & \text { pcimilin } \\ & \text { Exhibit } 25 \end{aligned}$ | $\begin{aligned} & =4.252 \\ & 25-4) \end{aligned}$ | 0.008 | 2. 0.000 |  |
| Speed Estimation |  |  |  |  |  | Speed Estimation |  |  |  |  |  |
| M ${ }_{\text {S }}=1.180$ (Exibil 25.19$)$$S_{R}=$ |  |  |  |  |  | $\begin{array}{ll} \mathrm{D}_{\mathrm{s}}= & \text { (Exhibit 25-19) } \\ \mathrm{S}_{\mathrm{R}}= & \text { mph (Exhibit 25-19) } \end{array}$ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{ll} S_{0}= & \text { N/A mph (Exhibit 25-19) } \\ S= & 37.0 \mathrm{mph} \text { (Exhibit 25-14) } \end{array}$ |  |  |  |  |  | $s_{00}=\quad \mathrm{mph}($ Exhibit 25-19) |  |  |  |  |  |
|  |  |  |  |  |  | $s=\operatorname{mph}($ Exhibit 25-15) |  |  |  |  |  |






## Conversion to pc/h Under Base Conditions

| ( $\mathrm{pc} / \mathrm{h}$ ) | V (Veh/hr) | PHF | Terrain | \%Truck | \%Rv | $\mathrm{f}_{\mathrm{HV}}$ | $\mathrm{f}_{\mathrm{p}}$ | $\begin{aligned} & V=V / P H F x \\ & f_{H V} \times f_{p} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 2640 | 0.94 | Level | 14 | 2 | 0.931 | 0.95 | 3175 |
| Ramp | 1310 | 0.89 | Level | 19 | 2 | 0.910 | 0.95 | 1703 |
| UpStream | 1150 | 0.89 | Leve! | 19 | 2 | 0.910 | 0.95 | 1495 |
| DownStrean |  |  |  |  |  |  |  |  |
| Merge Areas |  |  |  |  | Diverge Areas |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  | Estimation of $v_{12}$ |  |  |  |
| $\begin{aligned} & \quad V_{12}=V_{F}\left(P_{F M}\right) \\ & L_{E O}=\text { (Equation 25-2 of 25-3) } \\ & P_{F M}=1.000 \text { using Equation (Exhibii 25-5) } \\ & V_{12}=3175 \mathrm{pch} \end{aligned}$ |  |  |  |  | $\begin{aligned} & \quad V_{12}=V_{R}+\left(V_{F}-V_{R}\right) P_{F D} \\ & L_{E 0}=\text { (Equation 25-8 or 25-9) } \\ & P_{F D}=\text { using Equation (Exhibit 25-11) } \\ & V_{12}=\text { pch } \end{aligned}$ |  |  |  |

Capacity Checks
Capacity Checks

|  | Actual | Maximum | LOS F? |  | Actual | Maximum | LOS F? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $V_{\text {FO }}$ | 4878 | See Exhibit 25-7 | Yes | $V_{\text {Fl }}=V_{\text {F }}$ |  |  |  |
|  |  |  |  | $V_{12}$ |  |  |  |
| $V_{\text {R12 }}$ | 4878 | 4600:All | Yes | $\begin{gathered} V_{F O}=V_{F} \\ V_{R} \end{gathered}$ |  |  |  |
|  |  |  |  | $V_{R}$ |  |  |  |
| Level of Service Determination (if not $F$ ) |  |  |  | Level of Service Determination (if not F) |  |  |  |
| $\begin{aligned} & D_{R}= \\ & D_{R}= \\ & L O S= \end{aligned}$ | 0.00734 | $+0.0078 \mathrm{~V}_{12}-0.0$ |  | $\mathrm{O}_{\mathrm{R}}=1 \mathrm{pc}$ LOS $=1 \mathrm{E}$ | $=4.252$ $25-4)$ | $6 \mathrm{~V}_{12}-0.00$ |  |
| Speed Estimation |  |  |  | Speed Estimation |  |  |  |
| $\begin{array}{ll} M_{S}= & 07 \\ S_{R}= & 47 . \\ S_{0}= & N / R \\ S= & 47 . \end{array}$ | dit 25-19) |  |  |  | $25-19)$ xhibit 25 ( |  |  |

APPENDIX 'L'
OPENING YEAR (2010) BUILD INTERSECTION LOS

Detailed Report
Page 1 of 2


| Approach Delay | 5.7 | 12.0 |  | 14.2 |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $A$ | $B$ | $B$ |  |
| Intersection Delay | 11.3 | $X_{C}=0.34$ | Intersection LOS | $B$ |
| Copyright © 2005 University of Florida, All Rights Reserved | HCS+ |  |  |  |



| Approach Delay 12.3 18.3  21.7 <br> Approach LOS $B$ $B$  $C$ <br> Intersection Delay 18.3 $X_{C}=0.32$ Intersection LOS $B$ |
| :--- |





| Approach Delay | 6.4 | 15.7 | 17.8 |  |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $A$ | $B$ | $B$ |  |
| Intersection Delay | 13.5 | $x_{c}=0.37$ | Intersection LOS | $B$ |

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| Approach Delay     <br> Approach LOS A $A$ $C$  <br> Intersection Delay 6.5 $X_{C}=0.26$ Intersection LOS $A$ |
| :--- |



| Lane Group LoS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Approach Delay | 22.5 | 20.8 | 57.2 |  |  |
| Approach LOS | C | C | $E$ |  |  |
| Intersection Delay | 27.1 | $x_{c}=0.62$ | Intersection LOS | C |  |


| HCS ${ }^{\text {** }}$ DETAILED REPORT |  |  |
| :---: | :---: | :---: |
| General Information | Site informatio |  |
| Analyst JAS | Intersection | 1-75Ramps@SR50 |
| Agency or Co. FDOT | Area Type | All other areas |
| Date Performed 11/08/2006 | Jurisdiction | Hernando |
| Time Period | Analysis Year Project ID | SPUI Alternative - 2010 |

## Volume and Timing Input

|  | EB |  |  | WB |  |  | NB |  |  | SB |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Number of Lanes, $\mathrm{N}_{1}$ | 2 | 3 | 1 | 2 | 3 | 1 | 3 |  | 2 | 3 |  | 2 |
| Lane Group | L | $T$ | $R$ | $L$ | $T$ | $R$ | L |  | $R$ | $L$ |  | $R$ |
| Volume, V (vph) | 346 | 875 | 312 | 358 | 1124 | 314 | 340 |  | 510 | 311 |  | 209 |
| \% Heavy Vehicles, \%HV | 6 | 6 | 6 | 6 | 6 | 6 | 6 |  | 6 | 6 |  | 6 |
| Peak-Hour Factor, PHF | 0.90 | 0.90 | 0.90 | 0.91 | 0.91 | 0.91 | 0.95 |  | 0.95 | 0.90 |  | 0.90 |
| Pretimed (P) or Actuated (A) | A | A | A | A | A | A | A |  | A | A |  | A |
| Start-up Lost Time, 11 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |  | 2.0 | 2.0 |  | 2.0 |
| Extension of Effective Green, e | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |  | 2.0 | 2.0 |  | 2.0 |
| Arrival Type, AT | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  | 3 | 3 |  | 3 |
| Unit Extension, UE | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |  | 3.0 | 3.0 |  | 3.0 |
| Filtering/Metering, 1 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |  | 1.000 | 1.000 |  | 1.000 |
| Initial Unmet Demand, Qs | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 |
| Ped / Bike / RTOR Volumes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 220 | 0 | 0 | 0 |
| Lane Width | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |  | 12.0 | 12.0 |  | 12.0 |
| Parking / Grade / Parking | N | 0 | N | N | 0 | N | N | 0 | N | N | 0 | N |
| Parking Maneuvers, Nm |  |  |  |  |  |  |  |  |  |  |  |  |
| Buses Stopping, NB | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 |  | 0 |
| Min. Time for Pedestrians, $\mathrm{Gp}_{\mathrm{p}}$ | 3.2 |  |  | 3.2 |  |  | 3.2 |  |  | 3.2 |  |  |


| Phasing | Excl. Left | Thru \& RT | 03 | 04 | NS Perm | 06 | 07 | 08 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Timing | $G=29.0$ | $G=73.6$ | G = | G = | $G=30.4$ | $\mathrm{G}=$ | G = | $\mathrm{G}=$ |
|  | $Y=5$ | $Y=7$ | $Y=$ | $Y=$ | $Y=5$ | Y= | $Y=$ | $Y=$ |
| Duration | nalysis. $T=$ |  |  |  |  | Cycle L | $\mathrm{C}=$ |  |

Lane Group Capacity, Control Delay, and LOS Determination

|  | EB |  |  | WB |  |  | NB |  |  | SB |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v | 384 | 972 | 347 | 393 | 1235 | 345 | 358 |  | 305 | 346 |  | 232 |
| Lane Group Capacity, c | 639 | 2396 | 1128 | 639 | 2396 | 1128 | 940 |  | 547 | 940 |  | 547 |
| v/c Ratio, X | 0.60 | 0.41 | 0.31 | 0.62 | 0.52 | 0.31 | 0.38 |  | 0.56 | 0.37 |  | 0.42 |
| Total Green Ratio, g/C | 0.19 | 0.49 | 0.74 | 0.19 | 0.49 | 0.74 | 0.20 |  | 0.20 | 0.20 |  | 0.20 |
| Uniform Delay, ${ }_{1}$ | 55.2 | 24.3 | 6.6 | 55.4 | 26.0 | 6.6 | 51.7 |  | 53.8 | 51.5 |  | 52.2 |
| Progression Factor, PF | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |  | 1.000 | 1.000 |  | 1.000 |
| Delay Calibration, k | 0.19 | 0.11 | 0.11 | 0.20 | 0.12 | 0.11 | 0.11 |  | 0.15 | 0.11 |  | 0.11 |
| Incremental Delay, $\mathrm{d}_{2}$ | 1.6 | 0.1 | 0.2 | 1.8 | 0.2 | 0.2 | 0.3 |  | 1.3 | 0.2 |  | 0.5 |
| Initial Queue Delay, $\mathrm{d}_{3}$ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 |
| Control Delay | 56.8 | 24.4 | 6.7 | 57.2 | 26.2 | 6.7 | 51.9 |  | 55.0 | 51.8 |  | 52.7 |
| Lane Group LOS | E | C | A | E | C | A | D |  | E | D |  | D |


| Approach Delay | 28.1 | 29.0 | 53.4 | 52.1 |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $C$ | $C$ | $D$ | $D$ |
| Intersection Delay | 34.7 | $X_{c}=0.55$ | Intersection LOS | $C$ |

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| HCS ${ }^{\text {* }}$ DETAILED REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| General Information |  |  |  |  |  |  | Site Information |  |  |  |  |  |  |  |
| Analyst JAS Agency or Co. FDOT Date Performed 11/09/2006 Time Period |  |  |  |  |  |  | Intersection Area Type Jurisdiction Analysis Year Project ID |  | I-75 NB Ramps @ SR 50 <br> All other areas <br> Hernando <br> WB to SB Loop Ramp Alternative (WB Thru Only) 2010 NB=FF |  |  |  |  |  |
| Volume and Timing Input |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | EB |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  |  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Number of Lanes, $\mathrm{N}_{1}$ |  |  | 2 | 3 |  |  | 3 |  | 3 |  |  |  |  |  |
| Lane Group |  |  | $L$ | T |  |  | $T$ |  | $L$ |  |  |  |  |  |
| Volume, V (vph) |  |  | 346 | 1186 |  |  | 1124 |  | 340 |  |  |  |  |  |
| \% Heavy Vehicles, \%HV |  |  | 6 | 6 |  |  | 6 |  | 6 |  |  |  |  |  |
| Peak-Hour Factor, PHF |  |  | 0.90 | 0.90 |  |  | 0.91 |  | 0.95 |  |  |  |  |  |
| Pretimed (P) or Actuated (A) |  |  | A | A |  |  | A |  | A |  |  |  |  |  |
| Start-up Lost Time, II |  |  | 2.0 | 2.0 |  |  | 2.0 |  | 2.0 |  |  |  |  |  |
| Extension of Effective Green, e |  |  | 2.0 | 2.0 |  |  | 2.0 |  | 2.0 |  |  |  |  |  |
| Arrival Type, AT |  |  | 3 | 3 |  |  | 3 |  | 3 |  |  |  |  |  |
| Unit Extension, UE |  |  | 3.0 | 3.0 |  |  | 3.0 |  | 3.0 |  |  |  |  |  |
| Filtering/Metering, 1 |  |  | 1.000 | 1.000 |  |  | 1.000 |  | 1.000 |  |  |  |  |  |
| Initial Unmet Demand, Qu |  |  | 0.0 | 0.0 |  |  | 0.0 |  | 0.0 |  |  |  |  |  |
| Ped / Bike / RTOR Volumes |  |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  |  |  |  |
| Lane Width |  |  | 12.0 | 12.0 |  |  | 12.0 |  | 12.0 |  |  |  |  |  |
| Parking / Grade / Parking |  |  | N | 0 | N | N | 0 | N | N | 0 | N |  |  |  |
| Parking Maneuvers, Nm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Buses Stopping. $N_{B}$ |  |  | 0 | 0 |  |  | 0 |  | 0 |  |  |  |  |  |
| Min. Time for Pedestrians. Gp |  |  | 3.2 |  |  | 3.2 |  |  | 3.2 |  |  |  |  |  |
| Phasing | EB Only | Thru Only |  | 03 |  | 04 |  | NB Only | 06 |  | 07 |  | 08 |  |
| Timing | $G=27.3$ | $\mathrm{G}=72.3$ |  | $\mathrm{G}=$ |  | G = |  | $\mathrm{G}=15.4$ | G = |  | $\mathrm{G}=$ |  | G = |  |
|  | $Y=5$ | $Y=$ |  | $Y=$ |  | $Y=$ |  | $Y=5$ | $Y=$ |  | $Y=$ |  | $Y=$ |  |
| Duration of Analysis, $T=0.25$ |  |  |  |  |  |  |  |  | Cycle Length, $\mathrm{C}=130.0$ |  |  |  |  |  |
| Lane Group Capacity, Control Delay, and LOS Determination |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | EB |  |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  |  | T | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v |  |  | 84 | 1318 |  |  | 1235 |  | 358 |  |  |  |  |  |
| Lane Group Capacity, c |  | 69 |  | 3929 |  |  | 2716 |  | 550 |  |  |  |  |  |
| v/C Ratio, X |  | 0.5 |  | 0.34 |  |  | 0.45 |  | 0.65 |  |  |  |  |  |
| Total Green Ratio, g/C |  | 0.2 |  | 0.80 |  |  | 0.56 |  | 0.12 |  |  |  |  |  |
| Uniform Delay, $d_{1}$ |  | 45. |  | 3.4 |  |  | 17.1 |  | 54.7 |  |  |  |  |  |
| Progression Factor, PF |  | 1.00 | .000 | 1.000 |  |  | 1.000 |  | 1.000 |  |  |  |  |  |
| Delay Calibration, $k$ |  | 0.1 |  | 0.11 |  |  | 0.11 |  | 0.23 |  |  |  |  |  |
| Incremental Delay, $\mathrm{d}_{2}$ |  |  | . 0 | 0.1 |  |  | 0.1 |  | 2.7 |  |  |  |  |  |
| Initial Queue Delay, $d_{3}$ |  | 0.0 |  | 0.0 |  |  | 0.0 |  | 0.0 |  |  |  |  |  |
| Control Delay |  | 46 | 6.9 | 3.4 |  |  | 17.3 |  | 57.5 |  |  |  |  |  |
|  |  |  |  | A |  |  | B |  | E |  |  |  |  |  |


| Lane Group LOS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Approach Delay | 13.2 | 17.3 | 57.5 |  |  |
| Approach LOS | $B$ | $B$ | E |  |  |
| Intersection Delay | 19.6 | $x_{c}=0.50$ | Intersection LOS | B |  |



| Lane Group LOS |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Approach Delay | 46.9 | 7.0 |  |  |  |  |
| Approach LOS | $D$ | $A$ |  |  |  |  |
| Intersection Delay | 20.7 | $X_{c}=0.37$ | Intersection LOS | $C$ |  |  |



| Approach Delay | 19.0 | 19.5 | 52.8 |  |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $B$ | $B$ | $D$ |  |
| Intersection Delay | 22.7 | $X_{c}=0.50$ | Intersection LOS | $C$ |




| HCS+ ${ }^{\text {' }}$ DETAILED REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| General Information |  |  |  |  |  |  | Site information |  |  |  |  |  |  |  |
| Analyst JAS <br> Agency or Co. FDOT <br> Date Performed $11 / 08 / 2006$  <br> Time Period  |  |  |  |  |  |  | Intersection Area Type Jurisdiction Analysis Year Project ID |  | 1.75 SB Ramps @ SR 50 <br> All other areas <br> Hernando <br> Lane Improvement <br> Alternative - 2010 |  |  |  |  |  |
| Volume and Timing Input |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | EB |  |  | WB |  |  | NB |  |  | SB |  |
|  |  |  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Number of Lanes, $\mathrm{N}_{1}$ |  |  |  | 3 | 1 | 2 | 3 |  |  |  |  | 2 |  | 2 |
| Lane Group |  |  |  | $T$ | $R$ | L | T |  |  |  |  | L |  | $R$ |
| Volume, V (vph) |  |  |  | 1221 | 312 | 358 | 1464 |  |  |  |  | 311 |  | 209 |
| \% Heavy Vehicles, \%HV |  |  |  | 6 | 6 | 6 | 6 |  |  |  |  | 6 |  | 6 |
| Peak-Hour Factor, PHF |  |  |  | 0.88 | 0.88 | 0.95 | 0.95 |  |  |  |  | 0.89 |  | 0.89 |
| Pretimed (P) or Actuated (A) |  |  |  | A | A | A | A |  |  |  |  | A |  | A |
| Start-up Lost Time, 11 |  |  |  | 2.0 | 2.0 | 2.0 | 2.0 |  |  |  |  | 2.0 |  | 2.0 |
| Extension of Effective Green. e |  |  |  | 2.0 | 2.0 | 2.0 | 2.0 |  |  |  |  | 2.0 |  | 2.0 |
| Arrival Type, AT |  |  |  | 3 | 3 | 3 | 3 |  |  |  |  | 3 |  | 3 |
| Unit Extension, UE |  |  |  | 3.0 | 3.0 | 3.0 | 3.0 |  |  |  |  | 3.0 |  | 3.0 |
| Fittering/Metering, 1 |  |  |  | 1.000 | (1.000 | 17.000 | 11.000 |  |  |  |  | 1.000 |  | 1.000 |
| Initial Unmet Demand, $\mathrm{Qb}^{\text {b }}$ |  |  |  | 0.0 | 0.0 | 0.0 | 0.0 |  |  |  |  | 0.0 |  | 0.0 |
| Ped / Bike / RTOR Volumes |  |  | 0 | 0 | 250 | 0 | 0 |  |  |  |  | 0 | 0 | 70 |
| Lane Width |  |  |  | 12.0 | 12.0 | 12.0 | 12.0 |  |  |  |  | 12.0 |  | 12.0 |
| Parking / Grade / Parking |  |  | $N$ | 0 | N | N | 0 | N |  |  |  | N | 0 | N |
| Parking Maneuvers, $\mathrm{Nm}_{\mathrm{m}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Buses Stopping, $\mathrm{N}_{8}$ |  |  |  | 0 | 0 | 0 | 0 |  |  |  |  | 0 |  | 0 |
| Min. Time for Pedestrians, Gp |  |  | 3.2 |  |  | 3.2 |  |  |  |  |  | 3.2 |  |  |
| Phasing | EW Perm | Thru \& RT |  | 03 |  | 04 |  | SB Only |  | 06 | 07 |  | 08 |  |
| Timing | $G=21.0$ | $G=90.2$ |  | G = |  | G = |  | $G=33.8$ |  | G $=$ | G = |  | G = |  |
|  | $Y=5$ | $Y=$ | 5 | $Y=$ |  | $Y=$ |  | $Y=5$ |  |  | Y |  | $Y=$ |  |
| Duration of Analysis, $T=0.25$ |  |  |  |  |  |  |  |  |  | Cycle Length, $\mathrm{C}=160.0$ |  |  |  |  |
| Lane Group Capacity, Control Delay, and LOS Determination |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | EB |  |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  |  |  | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v |  |  |  | 1388 | 70 | 377 | 1541 |  |  |  |  | 349 |  | 156 |
| Lane Group Capacity, c |  |  |  | 2753 | 1524 | 434 | 3546 |  |  |  |  | 699 |  | 570 |
| v/c Ratio, $X$ |  |  |  | 0.50 | 0.05 | 0.87 | 0.43 |  |  |  |  | 0.50 |  | 0.27 |
| Total Green Ratio, g/C |  |  |  | 0.56 | 1.00 | 0.13 | 0.73 |  |  |  |  | 0.21 |  | 0.21 |
| Uniform Delay, $d_{1}$ |  |  |  | 21.3 | 0.0 | 68.1 | 8.8 |  |  |  |  | 55.6 |  | 52.8 |
| Progression Factor, PF |  |  |  | 1.000 | 0.950 | 1.000 | 1.000 |  |  |  |  | 1.000 |  | 1.000 |
| Delay Calibration, k |  |  |  | 0.11 | 0.11 | 0.40 | 0.11 |  |  |  |  | 0.11 |  | 0.11 |
| Incremental Delay, $d_{2}$ |  |  |  | 0.2 | 0.0 | 17.0 | 0.1 |  |  |  |  | 0.6 |  | 0.3 |
| Initial Queue Delay, $d_{3}$ |  |  |  | 0.0 | 0.0 | 0.0 | 0.0 |  |  |  |  | 0.0 |  | 0.0 |
| Control Delay |  |  |  | 21.4 | 0.0 | 85.1 | 8.8 |  |  |  |  | 56.2 |  | 53.1 |
|  |  |  |  | c | A | F | A |  |  |  |  | E |  | D |




| Approach Delay | 8.6 | 9.5 | 42.0 |  |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | A | $A$ |  | $D$ |
| Intersection Delay | 13.8 | $X_{c}=0.46$ | Intersection LOS | $B$ |



| Approach Delay 11.7 13.6  41.4 <br> Approach LOS $B$ $B$  $D$ <br> Intersection Delay 17.6 $X_{c}=0.42$ Intersection LOS $B$Copyright 02005 University of Florida, Al Rights Reserved$\quad \mathrm{HCS}+\mathrm{TM}$ Version 5.2 |
| :--- |


| HCS ${ }^{\text {* }}$ DETAILED REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| General Information |  |  |  |  |  |  | Site Information |  |  |  |  |  |  |  |
| Analyst JAS <br> Agency or Co. FDOT <br> Date Performed 11/08/2006 <br> Time Period |  |  |  |  |  |  | Intersection <br> Area Type <br> Jurisdiction <br> Analysis Year <br> Project ID |  | I-75 SB Ramps @ SR 50 <br> All other areas <br> Hernando <br> NB to WB Flyover Alternative $-2010$ |  |  |  |  |  |
| Volume and Timing Input |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | EB |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  |  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Number of Lanes, $\mathrm{N}_{1}$ |  |  |  | 3 | 1 | 2 | 3 |  |  |  |  | 3 |  | 2 |
| Lane Group |  |  |  | T | R | $L$ | T |  |  |  |  | L |  | $R$ |
| Volume, V (vph) |  |  |  | 875 |  <br> 12 | 358 | 1124 |  |  |  |  | 311 |  | 209 |
| \% Heavy Vehicles, \%HV |  |  |  | 6 | 6 | 0 | 6 |  |  |  |  | 6 |  | 6 |
| Peak-Hour Factor, PHF |  |  |  | 0.88 | 0.88 | 0.90 | 0.95 |  |  |  |  | 0.89 |  | 0.89 |
| Pretimed (P) or Actuated (A) |  |  |  | A | A | A | A |  |  |  |  | A |  | A |
| Start-up Lost Time. 11 |  |  |  | 2.0 | 2.0 | 2.0 | 2.0 |  |  |  |  | 2.0 |  | 2.0 |
| Extension of Effective Green, e |  |  |  | 2.0 | 2.0 | 2.0 | 2.0 |  |  |  |  | 2.0 |  | 2.0 |
| Arrival Type, AT |  |  |  | 3 | 3 | 3 | 3 |  |  |  |  | 3 |  | 3 |
| Unit Extension, UE |  |  |  | 3.0 | 3.0 | 3.0 | 3.0 |  |  |  |  | 3.0 |  | 3.0 |
| Filtering/Metering, I |  |  |  | 1.00 |  1.000 | [1.000 | (1.000 |  |  |  |  | 1.000 |  | 1.000 |
| Initial Unmet Demand, $\mathrm{Qb}^{\text {d }}$ |  |  |  | 0.0 | 0.0 | 0.0 | 0.0 |  |  |  |  | 0.0 |  | 0.0 |
| Ped / Bike / RTOR Volumes |  |  | 0 | 0 | 250 | 0 | 0 |  |  |  |  | 0 | 0 | 70 |
| Lane Width |  |  |  | 12.0 | 12.0 | 12.0 | 12.0 |  |  |  |  | 12.0 |  | 12.0 |
| Parking / Grade / Parking |  |  | $N$ | 0 | N | N | 0 | $N$ |  |  |  | N | 0 | N |
| Parking Maneuvers, $\mathrm{Nm}_{\mathrm{m}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Buses Stopping, $\mathrm{NB}^{\text {a }}$ |  |  |  | 0 | 0 | 0 | 0 |  |  |  |  | 0 |  | 0 |
| Min. Time for Pedestrians, $\mathrm{G}_{p}$ |  |  | 3.2 |  |  | 3.2 |  |  |  |  |  | 3.2 |  |  |
| Phasing | WB Only | Thru \& RT |  | 03 |  | 04 |  | SB Only | 06 |  | 07 |  | 08 |  |
| Timing | $\mathrm{G}=34.3$ | $\mathrm{G}=71.1$ |  | G = |  | G = |  | $\mathrm{G}=29.6$ | $G=$ |  | $\mathrm{G}=$ |  | $\mathrm{G}=$ |  |
|  | $Y=5$ | $\mathrm{Y}=$ | 5 | $Y=$ |  | $Y=$ |  | $Y=5$ |  | $\mathrm{Y}=\quad \mathrm{Y}=\mathrm{Y} \quad \mathrm{Y}=$ |  |  |  |  |
| Duration of Analysis, $T=0.25$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lane Group Capacity, Control Delay, and LOS Determination |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | EB |  |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  | L |  | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v |  |  |  | 994 | 70 | 398 | 1183 |  |  |  |  | 349 |  | 156 |
| Lane Group Capacity. c |  |  |  | 2315 | 1074 | 801 | 3594 |  |  |  |  | 915 |  | 532 |
| v/c Ratio, $X$ |  |  |  | 0.43 | 0.07 | 0.50 | 0.33 |  |  |  |  | 0.38 |  | 0.29 |
| Total Green Ratio, g/C |  |  |  | 0.47 | 0.70 | 0.23 | 0.74 |  |  |  |  | 0.20 |  | 0.20 |
| Uniform Delay, $\mathrm{d}_{1}$ |  |  |  | 26.1 | 6.9 | 50.3 | 6.9 |  |  |  |  | 52.3 |  | 51.3 |
| Progression Factor, PF |  |  |  | 1.000 | 1.000 | 1.000 | 1.000 |  |  |  |  | 1.000 |  | 1.000 |
| Delay Calibration, k |  |  |  | 0.11 | 0.11 | 0.11 | 0.11 |  |  |  |  | 0.11 |  | 0.11 |
| Incremental Delay, $\mathrm{d}_{2}$ |  |  |  | 0.1 | 0.0 | 0.5 | 0.1 |  |  |  |  | 0.3 |  | 0.3 |
| Initial Queue Delay. ${ }_{3}$ |  |  |  | 0.0 | 0.0 | 0.0 | 0.0 |  |  |  |  | 0.0 |  | 0.0 |
| Control Delay |  |  |  | 26.2 | 6.9 | 50.8 | 7.0 |  |  |  |  | 52.5 |  | 51.6 |
|  |  |  |  | c | A | D | A |  |  |  |  | D |  | D |

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## APPENDIX 'M'

INTERIM YEAR (2020) BUILD INTERSECTION LOS


| Approach Delay | 8.6 | 18.4 |  | 13.5 |
| :---: | :---: | :---: | :---: | :---: |
| Approach LOS | A | B |  | $B$ |
| Intersection Delay | 13.6 | $X_{c}=0.67$ | Intersection LOS | $B$ |



| Approach Delay | 19.0 | 29.1 |  | 24.6 |
| :---: | :---: | :---: | :---: | :---: |
| Approach LOS | B | C |  | C |
| Intersection Delay | 24.3 | $x_{c}=0.63$ | Intersection LOS | C |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| General Information |  |  |  |  |  |  | Site Information |  |  |  |  |  |  |  |
| Analyst JAS <br> Agency or Co. FDOT <br> Date Performed 11/08/2006 <br> Time Period |  |  |  |  |  |  | Intersection 1-75 NB Ramps @ CR 41 <br> Area Type All other areas <br> Jurisdiction Pasco County <br> Analysis Year  <br>  mNB Loop Ramp Altemative <br> Project ID <br>  <br>  <br>  <br>  <br>  <br> SBRT=FF) |  |  |  |  |  |  |  |
| Volume and Timing Input |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | EB |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  |  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Number of Lanes, $N_{1}$ |  |  | 1 | 1 |  |  | 1 |  |  |  |  | 1 |  |  |
| Lane Group |  |  | L | $T$ |  |  | $T$ |  |  |  |  | L |  |  |
| Volume, V (vph) |  |  | 291 | 177 |  |  | 493 |  |  |  |  | 372 |  |  |
| \% Heavy Vehicles, \%HV |  |  | 10 | 5 |  |  | 4 |  |  |  |  | 9 |  |  |
| Peak-Hour Factor, PHF |  |  | 0.85 | 0.85 |  |  | 0.85 |  |  |  |  | 0.91 |  |  |
| Pretimed (P) or Actuated (A) |  |  | A | A |  |  | A |  |  |  |  | A |  |  |
| Start-up Lost Time, il |  |  | 2.0 | 2.0 |  |  | 2.0 |  |  |  |  | 2.0 |  |  |
| Extension of Effective Green, e |  |  | 2.0 | 2.0 |  |  | 2.0 |  |  |  |  | 2.0 |  |  |
| Arrival Type, AT |  |  | 3 | 3 |  |  | 3 |  |  |  |  | 3 |  |  |
| Unit Extension, UE |  |  | 3.0 | 3.0 |  |  | 3.0 |  |  |  |  | 3.0 |  |  |
| Filtering/Metering. 1 |  |  | 1.000 | 1.000 |  |  | 1.000 |  |  |  |  | 1.000 |  |  |
| Initial Unmet Demand, Qb |  |  | 0.0 | 0.0 |  |  | 0.0 |  |  |  |  | 0.0 |  |  |
| Ped / Bike / RTOR Volumes |  |  | 0 | 0 |  | 0 | 0 |  |  |  |  | 0 | 0 |  |
| Lane Width |  |  | 12.0 | 12.0 |  |  | 12.0 |  |  |  |  | 12.0 |  |  |
| Parking / Grade / Parking |  |  | N | 0 | $N$ | N | 0 | $N$ |  |  |  | N | 0 | $N$ |
| Parking Maneuvers, Nm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Buses Stopping, NB |  |  | 0 | 0 |  |  | 0 |  |  |  |  | 0 |  |  |
| Min. Time for Pedestrians, $\mathrm{Gp}_{p}$ |  |  | 3.2 |  |  | 3.2 |  |  |  |  |  | 3.2 |  |  |
| Phasing | EB Only | EW P | Perm | 03 |  | 04 |  | SB Only | 06 |  | 07 |  | 08 |  |
| Timing | $\mathrm{G}=35.1$ | $\mathrm{G}=59.9$ |  | G = |  | G = |  | $\mathrm{G}=40.0$ | $G=$ |  | G = |  | G = |  |
|  | $Y=5$ | $Y=5$ |  | $Y=$ |  | $\mathrm{Y}=$ |  | $Y=5$ | $Y=$ |  | $Y=$ |  | $Y=$ |  |
| Duration of Analysis, $T=0.25$ |  |  |  |  |  |  |  |  |  | Cycle Length, $C=150.0$ |  |  |  |  |
| Lane Group Capacity, Control Delay, and LOS Determination |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | EB |  |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  | LT |  | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v |  | 34 |  | 208 |  |  | 580 |  |  |  |  | 409 |  |  |
| Lane Group Capacity, c |  | 55 |  | 1207 |  |  | 730 |  |  |  |  | 442 |  |  |
| v/c Ratio. X |  | 0.62 |  | 0.17 |  |  | 0.79 |  |  |  |  | 0.93 |  |  |
| Total Green Ratio, g/C |  | 0.67 |  | 0.67 |  |  | 0.40 |  |  |  |  | 0.27 |  |  |
| Uniform Delay, $\mathrm{d}_{1}$ |  | 16.9 |  | 9.4 |  |  | 39.6 |  |  |  |  | 53.5 |  |  |
| Progression Factor, PF |  | 1.000 |  | 1.000 |  |  | 1.000 |  |  |  |  | 1.000 |  |  |
| Delay Calibration, $k$ |  | 0.21 |  | 0.11 |  |  | 0.34 |  |  |  |  | 0.44 |  |  |
| Incremental Delay, $\mathrm{d}_{2}$ |  | 2.2 |  | 0.1 |  |  | 6.1 |  |  |  |  | 25.4 |  |  |
| Initial Queue Delay, $d_{3}$ |  | 0.0 |  | 0.0 |  |  | 0.0 |  |  |  |  | 0.0 |  |  |
| Control Delay |  | 19. |  | 9.5 |  |  | 45.7 |  |  |  |  | 78.9 |  |  |
|  |  | B |  | A |  |  | D |  |  |  |  | E |  |  |


| Lane Group LOS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Approach Delay | 15.5 | 45.7 |  | 78.9 |  |
| Approach LOS | $B$ | D |  | $E$ |  |
| Intersection Delay | 43.7 | $X_{c}=0.86$ | Intersection LOS | D |  |



| Approach Delay | 10.0 | 17.9 | 20.5 | $C$ |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $A$ | $B$ | $C$ |  |
| Intersection Delay | 16.2 | $X_{c}=0.72$ | Intersection LOS | $B$ |

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Duration of Analysis, $T=0.25$
Lane Group Capacity, Control Delay, and LOS Determination

|  |  | EB |  |  | WB |  |  | NB |  |  | SB |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v |  | 380 |  | 356 | 676 |  | 175 |  | 134 |  |  |  |
| Lane Group Capacity, c |  | 1710 |  | 658 | 2275 |  | 274 |  | 502 |  |  |  |
| v/c Ratio, X |  | 0.22 |  | 0.54 | 0.30 |  | 0.64 |  | 0.27 |  |  |  |
| Total Green Ratio, g/C |  | 0.49 |  | 0.67 | 0.67 |  | 0.17 |  | 0.34 |  |  |  |
| Uniform Delay, $d_{1}$ |  | 8.7 |  | 4.4 | 4.2 |  | 23.3 |  | 14.3 |  |  |  |
| Progression Factor, PF |  | 1.000 |  | 1.000 | 1.000 |  | 1.000 |  | 1.000 |  |  |  |
| Delay Calibration, $k$ |  | 0.11 |  | 0.14 | 0.11 |  | 0.22 |  | 0.11 |  |  |  |
| Incremental Delay, $\mathrm{d}_{2}$ |  | 0.1 |  | 0.9 | 0.1 |  | 4.9 |  | 0.3 |  |  |  |
| Initial Queue Delay, $d_{3}$ |  | 0.0 |  | 0.0 | 0.0 |  | 0.0 |  | 0.0 |  |  |  |
| Control Delay |  | 8.8 |  | 5.3 | 4.2 |  | 28.2 |  | 14.6 |  |  |  |
| Lane Group LOS |  | A |  | A | A |  | C |  | B |  |  |  |
|  | 8.8 |  |  | 4.6 |  |  | 22.3 |  |  |  |  |  |


| Approach Delay |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $A$ | $A$ | $C$ |  |
| Intersection Delay | 8.7 | $X_{c}=0.51$ | Intersection LOS |  |
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| Approach Delay 38.6 37.4 81.3 56.5 <br> Approach LOS $D$ $D$ $F$ $E$ <br> Intersection Delay 46.2 $X_{c}=0.92$ Intersection LOS $D$ |
| :--- |







| Approach Delay | 32.4 | 26.9 | 56.0 | $E$ |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $C$ | $C$ | $E$ |  |
| Intersection Delay | 32.2 | $X_{C}=0.82$ | Intersection LOS | $C$ |

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| Lane Group LOS | $\mid$ |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Approach Delay | 16.0 | $B$ |  |  |  |  |
| Approach LOS | $B$ | $B$ |  |  |  |  |
| Intersection Delay | 13.2 | $X_{c}=0.66$ | Intersection LOS | $B$ |  |  |





| Approach Delay | 10.9 | 14.1 |  | 46.7 |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $B$ | $B$ |  | $D$ |
| Intersection Delay | 17.5 | $X_{C}=0.74$ | Intersection LOS | $B$ |
| Copyright 2005 University or Florida, All Rights Reserved | HCS +TM Version 5.2 | Generated: $11 / 9 / 2006$ 7:08 PM |  |  |



| Approach Delay 13.8 20.4 43.7  <br> Approach LOS $B$ $C$  $D$ <br> Intersection Delay 22.3 $X_{C}=0.68$ Intersection LOS $C$ |
| :--- |



Lane Group Capacity, Control Delay, and LOS Determination



## APPENDIX ' $N$ '

DESIGN YEAR (2030) BUILD INTERSECTION LOS

| HCS ${ }^{\text {tw }}$ DETAILED REPORT |  |
| :--- | :--- |
| General Information | Site Information |
| Analyst $\quad$ CRH | Intersection |
| Agency or Co. FDOT | Area Type Ramps @ CR 41 |
| Date Performed 11/03/2006 | Allareas |
| Time Period | Jurisdiction |
|  | Pasco County |
|  | Analysis Year |
|  | Project ID |

Volume and Timing Input

|  | EB |  |  | WB |  |  | NB |  |  | SB |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Number of Lanes, $\mathrm{N}_{1}$ | 1 | 2 |  |  | 2 |  |  |  |  | 2 |  | 2 |
| Lane Group | L | $T$ |  |  | $T$ |  |  |  |  | L |  | $R$ |
| Volume, V (vph) | 436 | 246 |  |  | 713 |  |  |  |  | 546 |  | 714 |
| \% Heavy Vehicles, \%HV | 10 | 5. |  |  | 4 |  |  |  |  | 9 |  | 6 |
| Peak-Hour Factor, PHF | 0.85 | 0.85 |  |  | 0.85 |  |  |  |  | 0.91 |  | 0.91 |
| Pretimed (P) or Actuated (A) | A | A |  |  | A |  |  |  |  | A |  | A |
| Start-up Lost Time, IT | 2.0 | 2.0 |  |  | 2.0 |  |  |  |  | 2.0 |  | 2.0 |
| Extension of Effective Green, e | 2.0 | 2.0 |  |  | 2.0 |  |  |  |  | 2.0 |  | 2.0 |
| Arrival Type, AT | 3 | 3 |  |  | 3 |  |  |  |  | 3 |  | 3 |
| Unit Extension, UE | 3.0 | 3.0 |  |  | 3.0 |  |  |  |  | 3.0 |  | 3.0 |
| Filtering/Metering, I | 1.000 | 1.000 |  |  | 1.000 |  |  |  |  | 1.000 |  | 1.000 |
| Initial Unmet Demand, Qb | 0.0 | 0.0 |  |  | 0.0 |  |  |  |  | 0.0 |  | 0.0 |
| Ped / Bike / RTOR Volumes | 0 | 0 |  | 0 | 0 |  |  |  |  | 0 | 0 | 0 |
| Lane Width | 12.0 | 12.0 |  |  | 12.0 |  |  |  |  | 12.0 |  | 12.0 |
| Parking / Grade / Parking | N | 0 | $N$ | $N$ | 0 | $N$ |  |  |  | N | 0 | N |
| Parking Maneuvers, $\mathrm{N}_{\mathrm{m}}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Buses Stopping. NB | 0 | 0 |  |  | 0 |  |  |  |  | 0 |  | 0 |
| Min. Time for Pedestrians, $\mathrm{G}_{p}$ |  | 3.2 |  |  | 3.2 |  |  |  |  |  | 3.2 |  |


| Phasing | EB Only | EW Perm | 03 | 04 | SB Only | 06 | 07 | 08 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Timing | $\mathrm{G}=15.9$ | $\mathrm{G}=16.4$ | $\mathrm{G}=$ | $\mathrm{G}=$ | $\mathrm{G}=12.7$ | $\mathrm{G}=$ | $\mathrm{G}=$ | $\mathrm{G}=$ |
|  | $\mathrm{Y}=5$ | $\mathrm{Y}=5$ | $\mathrm{Y}=$ | $\mathrm{Y}=$ | $\mathrm{Y}=5$ | $\mathrm{Y}=$ | $\mathrm{Y}=$ | $\mathrm{Y}=$ |

Duration of Analysis, $T=0.25$
Lane Group Capacity, Control Delay, and LOS Determination

|  |  | EB |  |  | WB |  |  | NB |  |  | SB |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v | 513 | 289 |  |  | 839 |  |  |  |  | 600 |  | 785 |
| Lane Group Capacity, c | 555 | 2142 |  |  | 951 |  |  |  |  | 681 |  | 1510 |
| v/c Ratio, $X$ | 0.92 | 0.13 |  |  | 0.88 |  |  |  |  | 0.88 |  | 0.52 |
| Total Green Ratio, g/C | 0.62 | 0.62 |  |  | 0.27 |  |  |  |  | 0.21 |  | 0.56 |
| Uniform Delay, $\mathrm{d}_{1}$ | 13.8 | 4.7 |  |  | 20.9 |  |  |  |  | 22.9 |  | 8.2 |
| Progression Factor, PF | 1.000 | 1.000 |  |  | 1.000 |  |  |  |  | 1.000 |  | 1.000 |
| Delay Calibration, $k$ | 0.44 | 0.11 |  |  | 0.41 |  |  |  |  | 0.41 |  | 0.13 |
| Incremental Delay, $\mathrm{d}_{2}$ | 21.4 | 0.0 |  |  | 9.8 |  |  |  |  | 12.9 |  | 0.3 |
| Initial Queue Delay, $d_{3}$ | 0.0 | 0.0 |  |  | 0.0 |  |  |  |  | 0.0 |  | 0.0 |
| Control Delay | 35.3 | 4.7 |  |  | 30.6 |  |  |  |  | 35.8 |  | 8.5 |
| Lane Group LOS | $D$ | A |  |  | C |  |  |  |  | D |  | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |


| Approach Delay | 24.3 | 30.6 |  | 20.3 |
| :---: | :---: | :---: | :---: | :---: |
| Approach LOS | C | C |  | C |
| Intersection Delay | 24.2 | $x_{c}=0.83$ | Intersection LOS | C |


| HCS + ${ }^{\text {T }}$ DETAILED REPORT |  |  |
| :---: | :---: | :---: |
| General Information | Site Information |  |
| Analyst CRH | Intersection | 1-75 NB Ramps@ CR 41 |
| Agency or Co. FDOT | Area Type | All other areas |
| Date Performed 11/03/2006 | Jurisdiction | Pasco County |
| Time Period | Analysis Year |  |
|  | Project iD | NB Loop Ramp Alternative 2030 (WBT $=2$. SBLT=1) |

Volume and Timing input


Lane Group Capacity, Control Delay, and LOS Determination

|  | EB |  |  | WB |  |  | NB |  |  | SB |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v | 513 | 289 |  |  | 839 |  |  |  |  | 600 |  | 785 |
| Lane Group Capacity, c | 480 | 2073 |  |  | 1098 |  |  |  |  | 522 |  | 1620 |
| v/c Ratio, X | 1.07 | 0.14 |  |  | 0.76 |  |  |  |  | 1.15 |  | 0.48 |
| Total Green Ratio, g/C | 0.60 | 0.60 |  |  | 0.32 |  |  |  |  | 0.31 |  | 0.60 |
| Uniform Delay, $\mathrm{d}_{1}$ | 33.7 | 10.4 |  |  | 37.0 |  |  |  |  | 41.1 |  | 13.5 |
| Progression Factor, PF | 1.000 | 1.000 |  |  | 1.000 |  |  |  |  | 1.000 |  | 1.000 |
| Delay Calibration, $k$ | 0.50 | 0.11 |  |  | 0.32 |  |  |  |  | 0.50 |  | 0.11 |
| Incremental Delay, $\mathrm{d}_{2}$ | 60.7 | 0.0 |  |  | 3.3 |  |  |  |  | 87.6 |  | 0.2 |
| Initial Queue Delay, $d_{3}$ | 0.0 | 0.0 |  |  | 0.0 |  |  |  |  | 0.0 |  | 0.0 |
| Control Delay | 94.4 | 10.4 |  |  | 40.3 |  |  |  |  | 128.7 |  | 13.7 |
| Lane Group LoS | $F$ | B |  |  | D |  |  |  |  | $F$ |  | B |
|  |  |  |  |  |  |  |  |  |  |  |  |  |


| Approach Delay | 64.1 | 40.3 |  | 63.5 |
| :---: | :---: | :---: | :---: | :---: |
| Approach LOS | $E$ | D |  | E |
| Intersection Delay | 57.2 | $X_{c}=1.21$ | Intersection LOS | $E$ |


| HCS + ${ }^{\text {T }}$ DETAILED REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| General Information |  |  |  |  |  |  | Site Information |  |  |  |  |  |  |  |
| Analyst $\quad$ CRHAgency or Co. FDOTDate Performed $11 / 03 / 2006$Time Period |  |  |  |  |  |  | Intersection l-75 NB Ramps @ CR 41 <br> Area Type All other areas <br> Jurisdiction Pasco County <br> Analysis Year  <br>   <br> Project ID NB Loop Ramp Alternative - <br>  <br>  <br>  <br> SBR (WBT $=F F)$ |  |  |  |  |  |  |  |
| Volume and Timing input |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | EB |  |  | WB |  |  | NB |  |  | SB |  |
|  |  |  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Number of Lanes, $\mathrm{N}_{1}$ |  |  | 1 | 1 |  |  | 1 |  |  |  |  | 1 |  |  |
| Lane Group |  |  | $L$ | $T$ |  |  | $T$ |  |  |  |  | $L$ |  |  |
| Volume, V (vph) |  |  | 436 | 246 |  |  | 713 |  |  |  |  | 546 |  |  |
| \% Heavy Vehicles, \%HV |  |  | 10 | 5 |  |  | 4 |  |  |  |  | 9 |  |  |
| Peak-Hour Factor, PHF |  |  | 0.85 | 0.85 |  |  | 0.85 |  |  |  |  | 0.91 |  |  |
| Pretimed (P) or Actuated (A) |  |  | A | A |  |  | A |  |  |  |  | A |  |  |
| Start-up Lost Time, I1 |  |  | 2.0 | 2.0 |  |  | 2.0 |  |  |  |  | 2.0 |  |  |
| Extension of Effective Green, e |  |  | 2.0 | 2.0 |  |  | 2.0 |  |  |  |  | 2.0 |  |  |
| Artival Type, AT |  |  | 3 | 3 |  |  | 3 |  |  |  |  | 3 |  |  |
| Unit Extension, UE |  |  | 3.0 | 3.0 |  |  | 3.0 |  |  |  |  | 3.0 |  |  |
| Filtering/Metering, 1 |  |  | 1.000 | 1.000 |  |  | 1.000 |  |  |  |  | 1.000 |  |  |
| Initial Unmet Demand, Qb |  |  | 0.0 | 0.0 |  |  | 0.0 |  |  |  |  | 0.0 |  |  |
| Ped / Bike / RTOR Volumes |  |  | 0 | 0 |  | 0 | 0 |  |  |  |  | 0 | 0 |  |
| Lane Width |  |  | 12.0 | 12.0 |  |  | 12.0 |  |  |  |  | 12.0 |  |  |
| Parking / Grade / Parking |  |  | N | 0 | N | N | 0 | N |  |  |  | N | 0 | N |
| Parking Maneuvers, Nm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Buses Stopping. NB |  |  | 0 | 0 |  |  | 0 |  |  |  |  | 0 |  |  |
| Min. Time for Pedestrians, $G_{p}$ |  |  | 3.2 |  |  | 3.2 |  |  |  |  |  | 3.2 |  |  |
| Phasing | EB Only | EW Perm |  | 03 |  | 04 |  | SB Only |  | 06 | 07 |  | 08 |  |
| Timing | $G=35.1$ | $\mathrm{G}=59.9$ |  | G = |  | G = |  | $G=40.0$ |  | $\mathrm{G}=$ | G = |  | G = |  |
|  | $Y=5$ | $Y=5$ |  | $Y=$ |  | $Y=$ |  | $Y=5$ |  |  | Y |  | $Y=$ |  |
| Duration of Analysis, $T=0.25$ |  |  |  |  |  |  |  |  |  | Cycle Length, $C=150.0$ |  |  |  |  |
| Lane Group Capacity, Control Delay, and LOS Determination |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | EB |  |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  |  | T | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v |  | 51 |  | 289 |  |  | 839 |  |  |  |  | 600 |  |  |
| Lane Group Capacity, c |  | 47 |  | 1207 |  |  | 730 |  |  |  |  | 442 |  |  |
| v/c Ratio, X |  | 1.0 |  | 0.24 |  |  | 1.15 |  |  |  |  | 1.36 |  |  |
| Total Green Ratio, g/C |  | 0.6 |  | 0.67 |  |  | 0.40 |  |  |  |  | 0.27 |  |  |
| Uniform Delay, $d_{1}$ |  | 42.9 |  | 9.9 |  |  | 45.0 |  |  |  |  | 55.0 |  |  |
| Progression Factor, PF |  | 1.00 | . 000 | 1.000 |  |  | 1.000 |  |  |  |  | 1.000 |  |  |
| Delay Calibration, K |  | 0.5 |  | 0.11 |  |  | 0.50 |  |  |  |  | 0.50 |  |  |
| Incremental Delay. $\mathrm{d}_{2}$ |  | 66. |  | 0.1 |  |  | 82.6 |  |  |  |  | 175.1 |  |  |
| Initial Queue Delay, $\mathrm{d}_{3}$ |  | 0.0 |  | 0.0 |  |  | 0.0 |  |  |  |  | 0.0 |  |  |
| Control Delay |  | 109 | 9.8 | 10.0 |  |  | 127.7 |  |  |  |  | 230.1 |  |  |
|  |  | $\lceil F$ |  | B |  |  | F |  |  |  |  | F |  |  |




| Approach Delay 61.7 26.6 32.6  <br> Approach LOS $E$ $C$ $C$  <br> Intersection Delay 39.4 $X_{C}=1.19$ Intersection LOS Copyright 62005 University of Florida. All Rights Reserved$\quad$ HCS+7M Version 5.2 |
| :--- |



| Approach Delay |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $B$ | $A$ | $C$ |  |
| Intersection Delay | 14.1 | $X_{c}=0.79$ | Intersection LOS | $B$ |



| Lane Group LOS |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Approach Delay | 103.7 | $F$ | 157.6 | 201.9 | $F$ |  |
| Approach LOS | $F$ | $F$ |  |  |  |  |
| Intersection Delay | 143.7 | $X_{c}=1.43$ | Intersection LOS | $F$ |  |  |



| Approach Delay | 76.3 | 109.1 | 190.0 | 70.7 |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $E$ | $F$ | $F$ | $E$ |
| Intersection Delay | 104.8 | $X_{C}=1.30$ | Intersection LOS | $F$ |



| Lane Group LOS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Approach Delay | 44.6 | 64.0 | 199.1 |  |  |
| Approach LOS | D | $E$ | $F$ |  |  |
| Intersection Delay | 67.2 | $x_{c}=1.13$ | Intersection LOS | $E$ |  |


| HCS + ${ }^{\text {* }}$ DETAILED REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| General Information |  |  |  |  |  |  |  | Site Information |  |  |  |  |  |  |  |
| Analyst $\quad \mathrm{CRH}$ <br> Agency or Co. FDOT <br> Date Performed 10/26/2006 <br> Time Period |  |  |  |  |  |  |  | Intersection l-75 NB Ramps @ SR 50 <br> Area Type  <br> Jurisdiction All other areas <br> Hernando  <br> Analysis Year WB to SB Loop Ramp <br> Project ID Alternative (WB Lane to <br> Ramp Only)- 2030 |  |  |  |  |  |  |  |
| Volume and Timing input |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | EB |  |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  |  | LT |  | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Number of Lanes, $\mathrm{N}_{1}$ |  |  | 2 |  |  |  |  | 1 | 1 |  |  |  |  |  |  |
| Lane Group |  |  | L |  |  |  |  | $T$ | $R$ |  |  |  |  |  |  |
| Volume, V (vph) |  |  | 774 |  |  |  |  | 627 | 686 |  |  |  |  |  |  |
| \% Heavy Vehicles, \%HV |  |  | 6 |  |  |  |  | 6 | 6 |  |  |  |  |  |  |
| Peak-Hour Factor, PHF |  |  | 0.90 |  |  |  |  | 0.91 | 0.91 |  |  |  |  |  |  |
| Pretimed (P) or Actuated (A) |  |  | A |  |  |  |  | A | A |  |  |  |  |  |  |
| Start-up Lost Time, It |  |  | 2.0 |  |  |  |  | 2.0 | 2.0 |  |  |  |  |  |  |
| Exiension of Effective Green, e |  |  | 2.0 |  |  |  |  | 2.0 | 2.0 |  |  |  |  |  |  |
| Arrival Type, AT |  |  | 3 |  |  |  |  | 3 | 3 |  |  |  |  |  |  |
| Unit Extension, UE |  |  | 3.0 |  |  |  |  | 3.0 | 3.0 |  |  |  |  |  |  |
| Filtering/Metering, I |  |  | 1.000 |  |  |  |  | 1.000 | 11.000 |  |  |  |  |  |  |
| Initial Unmet Demand, Qb |  |  | 0.0 |  |  |  |  | 0.0 | 0.0 |  |  |  |  |  |  |
| Ped / Bike / RTOR Volumes |  |  | 0 |  | 0 |  | 0 | 0 | 0 |  |  |  |  |  |  |
| Lane Width |  |  | 12.0 |  |  |  |  | 12.0 | 12.0 |  |  |  |  |  |  |
| Parking / Grade / Parking |  |  | N |  | 0 | N | N | 0 | N |  |  |  |  |  |  |
| Parking Maneuvers, Nm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Buses Stopping, $N_{B}$ |  |  | 0 |  |  |  |  | 0 | 0 |  |  |  |  |  |  |
| Min. Time for Pedestrians, $\mathrm{G}_{\mathrm{p}}$ |  |  | 3.2 |  |  |  | 3.2 |  |  |  |  |  |  |  |  |
| Phasing | EB Only | WB Only |  | 03 |  |  | 04 |  | 05 |  | 06 | 07 |  | 08 |  |
| Timing | $G=27.3$ | $G=92.7$ |  | G = |  |  | G = |  | G $=$ |  | $\mathrm{G}=$ | G = |  | G = |  |
|  |  | $Y=$ |  |  | $Y=$ |  | $Y=$ |  | $Y=$ |  | $Y=$ | $Y=$ |  | $Y=$ |  |
| Duration of Analysis, $T=0.25$ |  |  |  |  |  |  |  |  |  |  | Cycle Length, $\mathrm{C}=130.0$ |  |  |  |  |
| Lane Group Capacity, Control Delay, and LOS Determination |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | EB |  |  |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  | LT | T | TH |  |  | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v |  | 86 |  |  |  |  |  | 689 | 754 |  |  |  |  |  |  |
| Lane Group Capacity, c |  | 69 |  |  |  |  |  | 1278 | 1087 |  |  |  |  |  |  |
| v/c Ratio, X |  | 1.2 |  |  |  |  |  | 0.54 | 0.69 |  |  |  |  |  |  |
| Total Green Ratio, g/C |  | 0.2 |  |  |  |  |  | 0.71 | 0.71 |  |  |  |  |  |  |
| Uniform Delay, $\mathrm{d}_{1}$ |  | 51.4 |  |  |  |  |  | 8.7 | 10.6 |  |  |  |  |  |  |
| Progression Faclor, PF |  | 1.000 |  |  |  |  |  | 1.000 | 1.000 |  |  |  |  |  |  |
| Delay Calibration, k |  | 0.50 |  |  |  |  |  | 0.14 | 0.26 |  |  |  |  |  |  |
| Incremental Delay, $\mathrm{d}_{2}$ |  | 119 | 19.7 |  |  |  |  | 0.5 | 1.9 |  |  |  |  |  |  |
| Initial Queue Delay. $d_{3}$ |  | 0.0 |  |  |  |  |  | 0.0 | 0.0 |  |  |  |  |  |  |
| Control Delay |  | 171 |  |  |  |  |  | 9.2 | 12.5 |  |  |  |  |  |  |
|  |  | F |  |  |  |  |  | A | B |  |  |  |  |  |  |


| Lane Group LOS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Approach Delay | 171.1 | 10.9 |  |  |  |
| Approach LOS | $F$ | B |  |  |  |
| Intersection Delay | 70.7 | $X_{c}=0.82$ | Intersection LOS | $E$ |  |



| Approach Delay | 72.9 | 85.2 | 63.1 |  |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $E$ | $F$ | $E$ |  |
| Intersection Delay | 77.6 | $X_{C}=1.13$ | Intersection LOS | $E$ |



Lane Group Capacity, Control Delay, and LOS Determination

|  | EB |  |  | WB |  |  | NB |  |  | SB |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, V | 860 | 2871 |  |  | 2906 | 762 |  |  |  |  |  |  |
| Lane Group Capacity. c | 705 | 4883 |  |  | 3516 | 1097 |  |  |  |  |  |  |
| v/c Ratio, $X$ | 1.22 | 0.59 |  |  | 0.83 | 0.69 |  |  |  |  |  |  |
| Total Green Ratio. g/C | 0.21 | 1.00 |  |  | 0.72 | 0.72 |  |  |  |  |  |  |
| Uniform Delay, $d_{1}$ | 59.0 | 0.0 |  |  | 14.5 | 11.8 |  |  |  |  |  |  |
| Progression Factor, PF | 1.000 | 0.950 |  |  | 1.000 | 1.000 |  |  |  |  |  |  |
| Delay Calibration, $k$ | 0.50 | 0.18 |  |  | 0.36 | 0.26 |  |  |  |  |  |  |
| Incremental Delay. $\mathrm{d}_{2}$ | 111.5 | 0.2 |  |  | 1.7 | 1.9 |  |  |  |  |  |  |
| Initial Queue Delay, $d_{3}$ | 0.0 | 0.0 |  |  | 0.0 | 0.0 |  |  |  |  |  |  |
| Control Delay | 170.5 | 0.2 |  |  | 16.3 | 13.7 |  |  |  |  |  |  |
|  | $F$ | A |  |  | B | B |  |  |  |  |  |  |


| Lane Group LOS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Approach Delay | 39.4 | 15.7 |  |  |  |
| Approach LOS | D | B |  |  |  |
| Intersection Delay | 27.7 | $x_{c}=0.92$ | Intersection LOS | C |  |



| Lane Group LOS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Approach Delay | 74.8 | 76.3 |  | 107.1 |  |
| Approach LOS | $E$ | $E$ |  | $F$ |  |
| Intersection Delay | 79.9 | $x_{c}=1.16$ | Intersection LOS | $E$ |  |



| Approach Delay | 18.0 | 45.2 |  | 67.4 |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $B$ | $D$ | $E$ |  |
| Intersection Delay | 36.8 | $X_{c}=1.02$ | Intersection LOS | $D$ | | Copyrigh © 2005 University of Florida, All Rights Reserved |
| :--- |$\quad$ HCS+IM Version 5.2


| HCS ${ }^{* *}$ DETAILED REPORT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| General Information |  |  |  |  |  |  | Site Information |  |  |  |  |  |  |  |
| Analys! JAS <br> Agency or Co. FDOT <br> Date Performed 10/26/2006 <br> Time Period |  |  |  |  |  |  | Intersection Area Type Jurisdiction Analysis Year Project ID |  | $\begin{aligned} & \text { 1-75SB Ramps@SR } 50 \\ & \text { All other areas } \\ & \text { Hernando } \\ & \text { WB to SB Flyover Alternative } \\ & -2030 \\ & \hline \end{aligned}$ |  |  |  |  |  |
| Volume and Timing input |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | EB |  |  | WB |  |  | NB |  |  | SB |  |
|  |  |  | LT | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Number of Lanes, $\mathrm{N}_{1}$ |  |  |  | 3 |  |  | 3 |  |  |  |  | 3 |  | 2 |
| Lane Group |  |  |  | T |  |  | T |  |  |  |  | L |  | $R$ |
| Volume, V (vph) |  |  |  | 1895 |  |  | 3287 |  |  |  |  | 689 |  | 461 |
| \% Heavy Vehicles, \%HV |  |  |  | 6 |  |  | 6 |  |  |  |  | 6 |  | 6 |
| Peak-Hour Factor, PHF |  |  |  | 0.88 |  |  | 0.95 |  |  |  |  | 0.89 |  | 0.89 |
| Pretimed (P) or Actuated (A) |  |  |  | A |  |  | A |  |  |  |  | A |  | A |
| Start-up Lost Time, II |  |  |  | 2.0 |  |  | 2.0 |  |  |  |  | 2.0 |  | 2.0 |
| Extension of Effective Green, |  |  |  | 2.0 |  |  | 2.0 |  |  |  |  | 2.0 |  | 2.0 |
| Arrival Type, AT |  |  |  | 3 |  |  | 3 |  |  |  |  | 3 |  | 3 |
| Unit Extension. UE |  |  |  | 3.0 |  |  | 3.0 |  |  |  |  | 3.0 |  | 3.0 |
| Filtering/Metering, I |  |  |  | 1.000 |  |  | 1.000 |  |  |  |  | 1.000 |  | 1.000 |
| Initial Unmet Demand, Qu |  |  |  | 0.0 |  |  | 0.0 |  |  |  |  | 0.0 |  | 0.0 |
| Ped / Bike / RTOR Volumes |  |  | 0 | 0 |  | 0 | 0 |  |  |  |  | 0 | 0 | 70 |
| Lane Width |  |  |  | 12.0 |  |  | 12.0 |  |  |  |  | 12.0 |  | 12.0 |
| Parking / Grade / Parking |  |  | $N$ | 0 | $N$ | $N$ | 0 | $N$ |  |  |  | N | 0 | N |
| Parking Maneuvers, $\mathrm{Nm}_{\mathrm{m}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Buses Stopping. NB |  |  |  | 0 |  |  | 0 |  |  |  |  | 0 |  | 0 |
| Min. Time for Pedestrians, $\mathrm{G}_{\mathrm{p}}$ |  |  | 3.2 |  |  | 3.2 |  |  |  |  |  | 3.2 |  |  |
| Phasing | Thru Only |  | 02 | 03 |  | 04 |  | SB Only |  | 06 |  | 07 | 08 |  |
| Timing | $G=97.3$ | G = |  | $\mathrm{G}=$ |  | G = |  | $\mathrm{G}=42.7$ |  | $\mathrm{G}=$ |  | G = | G = |  |
|  | $Y=5$ | $Y=$ |  | $Y=$ |  | $Y=$ |  | $Y=5$ |  | $Y=$ |  | $Y=$ | $\mathrm{Y}=$ |  |
| Duration of Analysis, $T=0.25$ |  |  |  |  |  |  |  |  |  | Cycle Length, $\mathrm{C}=150.0$ |  |  |  |  |
| Lane Group Capacity, Control Delay, and LOS Determination |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | EB |  |  | WB |  |  | NB |  |  | SB |  |  |
|  |  | LT |  | TH | RT | LT | TH | RT | LT | TH | RT | LT | TH | RT |
| Adjusted Flow Rate, v |  |  |  | 2153 |  |  | 3460 |  |  |  |  | 774 |  | 439 |
| Lane Group Capacity, c |  |  |  | 3167 |  |  | 3167 |  |  |  |  | 1321 |  | 768 |
| v/c Ratio, $X$ |  |  |  | 0.68 |  |  | 1.09 |  |  |  |  | 0.59 |  | 0.57 |
| Total Green Ratio, g/C |  |  |  | 0.65 |  |  | 0.65 |  |  |  |  | 0.28 |  | 0.28 |
| Uniform Delay, ${ }_{\text {d }}$ |  |  |  | 16.6 |  |  | 26.3 |  |  |  |  | 46.1 |  | 45.8 |
| Progression Factor, PF |  |  |  | 1.000 |  |  | 1.000 |  |  |  |  | 1.000 |  | 1.000 |
| Delay Calibration, K |  |  |  | 0.25 |  |  | 0.50 |  |  |  |  | 0.18 |  | 0.17 |
| Incremental Delay, $\mathrm{d}_{2}$ |  |  |  | 0.6 |  |  | 47.5 |  |  |  |  | 0.7 |  | 1.0 |
| Initial Queue Delay, $\mathrm{d}_{3}$ |  |  |  | 0.0 |  |  | 0.0 |  |  |  |  | 0.0 |  | 0.0 |
| Control Delay |  |  |  | 17.2 |  |  | 73.9 |  |  |  |  | 46.7 |  | 46.9 |
| Lane Group LOS |  |  |  | B |  |  | E |  |  |  |  | D |  | D |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Approach Delay | 17.2 | 73.9 |  | 46.8 |
| :--- | :---: | :---: | :---: | :---: |
| Approach LOS | $B$ | $E$ |  | $D$ |
| Intersection Delay | 51.2 | $X_{C}=0.94$ | Intersection LOS | $D$ |

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#### Abstract

APPENDIX ' $O$ ' OPENING YEAR (2010) BUILD FREEWAY SEGMENT AND RAMP LOS







## Calculate Flow Adjustments




Calculate Flow Adjustments









file://C:Documents $\% 20$ and $\% 20$ Settings rhuebschman'Local $\% 20$ Settings $\backslash$ Temp $\backslash 2 \mathrm{k} 180 . \mathrm{tmp}$

## BASIC FREEWAY SEGMENTS WORKSHEET




Calculate Flow Adjustments



## Calculate Flow Adjustments



BASIC FREEWAY SEGMENTS WORKSHEET


Calculate Flow Adjustments





RAMPS AND RAMP JUNCTIONS WORKSHEET
Page 1 of 1








## Conversion to $p c / h$ Under Base Conditions

| (pch ${ }^{\text {c }}$ | $\begin{gathered} V \\ (\mathrm{Veh} / \mathrm{hr}) \end{gathered}$ | PHF | Terrain | \%Truck | \%Rv | $\mathrm{f}_{\mathrm{HV}}$ | $\mathrm{f}_{\mathrm{p}}$ | $\begin{aligned} & V=\text { VIPHF } x \\ & f_{H V} \times f_{p} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 3090 | 0.93 | Level | 14 | 2 | 0.931 | 0.95 | 3756 |
| Ramp | 850 | 0.95 | Level | 19 | 2 | 0.910 | 0.95 | 1035 |
| UpStream |  |  |  |  |  |  |  |  |
| DownStream | 660 | 0.95 | Level | 19 | 2 | 0.910 | 0.95 | 804 |
| Merge Areas |  |  |  |  | Diverge Areas |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  | Estimation of $\mathrm{V}_{12}$ |  |  |  |
| $V_{12}=V_{F}\left(P_{F M}\right)$ |  |  |  |  | $V_{12}=V_{R}+\left(V_{F}-V_{R}\right) P_{F D}$ |  |  |  |
| $L_{E O}=$ (Equation $25-2$ or $25-3$ ) |  |  |  |  | $L_{\text {EO }}=$ (Equation $25-8$ or 25-9) |  |  |  |
| $P_{\text {FM }}=$ using Equation (Exhibit 25-5) |  |  |  |  | $\mathrm{P}_{\mathrm{FD}}=0.450$ using Equation (Exhibit 25-11) |  |  |  |
| $V_{12}=\mathrm{pc} / \mathrm{h}$ |  |  |  |  | $v_{12}=2259 \mathrm{pc} / \mathrm{h}$ |  |  |  |

Capacity Checks
Capacity Checks

|  | Actual | Maximum | LOS F? |  | Actual | Maximum | LOS F? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $V_{\text {FO }}$ |  |  |  | $V_{F I}=V_{F}$ | 3756 | 7200 | No |
|  |  |  |  | $V_{12}$ | 2259 | 4400:All | No |
| $V_{R 12}$ |  |  |  | $\begin{gathered} V_{F O}=V_{F}- \\ V_{R} \end{gathered}$ | 2721 | 7200 | No |
|  |  |  |  | $V_{R}$ | 1035 | 3800 | No |

Level of Service Determination (if not F) Level of Service Determination (if not F)
$D_{R}=5.475+0.00734 V_{R}+0.0078 V_{12}-0.00627 L_{A}$
$D_{R}=(\mathrm{pc} / \mathrm{mi} / \mathrm{ln})$
LOS $=$ (Exhibit 25-4)

## Speed Estimation

$M_{S}=$ (Exibit 25-19)
$S_{R}=\quad$ mph (Exhibit 25-19)
$S_{0}=\quad \operatorname{mph}$ (Exhibit 25-19)
$s=\quad$ mph (Exhibit 25-14)
$D_{R}=4.252+0.0086 V_{12}-0.0009 L_{D}$
$D_{R}=5.7(\mathrm{pc} / \mathrm{mi} / \mathrm{m})$
LOS $=A$ (Exhibit 25-4)
Speed Estimation
$\mathrm{D}_{\mathrm{s}}=0.521$ (Exhibit 25-19)
$S_{R}=\quad 55.4 \mathrm{mph}$ (Exhibit 25-19)
$S_{0}=\quad 74.9 \mathrm{mph}$ (Exhibit 25-19)
61.8 mph (Exhibit 25-15)



## RAMPS AND RAMP JUNCTIONS WORKSHEET

General Information

## Site Information

| Analyst |  |
| :---: | :---: |
| Agency or Company |  |
| Date Performed |  |
| Analysis Time Period |  |
| Project Description 1.75 P |  |
| Inputs |  |
| Upstream Adj Ramp |  |
| fr Yes | Fon |
| TNo | 5 Of |
| $L_{u p}=$ | 2360 ft |
| $\mathrm{Va}_{0}=$ | 850 veh/h |


| Terrain: Level | $\begin{cases}\text { Downstream Adj Ramp } \\ \Gamma \text { Yes } & \Gamma \text { On } \\ \Gamma \text { No } & \Gamma \text { Off } \\ \Gamma_{\text {down }}= & \#\end{cases}$ |
| :---: | :---: |
| $\begin{array}{cc} \mathrm{S}_{\mathrm{FF}}=70.0 \mathrm{mph} & \mathrm{~S}_{\mathrm{FR}}=35.0 \mathrm{mph} \\ \text { Sketch ( show lanes, } L_{A}, \mathrm{~L}_{\mathrm{O}}, V_{\mathrm{R}}, V_{i} \text { ) } \end{array}$ | $V_{D}=\quad \mathrm{veh} / \mathrm{h}$ |

Conversion to pc/h Under Base Conditions

| ( pCH ) | V (Veh/hr) | PHF | Terrain |  | \%Truck | \%RV | $\mathrm{f}_{\mathrm{HV}}$ |  | $f_{p}$ | $\begin{aligned} & \mathrm{V}=\mathrm{V} \\ & \mathrm{~F}_{\mathrm{HV}} \times \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 2240 | 0.94 | Level |  | 14 | 2 | 0.931 |  | 0.95 |  |  |
| Ramp | 660 | 0.95 | Level |  | 19 | 2 | 0.910 |  | 0.95 |  |  |
| UpStream | 850 | 0.95 | Level |  | 19 | 2 | 0.910 |  | 0.95 |  |  |
| DownStream |  |  |  |  |  |  |  |  |  |  |  |
| Merge Areas |  |  |  |  |  | Diverge Areas |  |  |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  |  | Estimation of $v_{12}$ |  |  |  |  |  |
| $\begin{aligned} & V_{12}=V_{F}\left(P_{F M}\right) \\ & L_{E O}=\text { (Equation 25-2 or 25-3) } \\ & P_{F M}=0.315 \text { using Equation (Exhibit 25-5) } \\ & V_{12}=848 \mathrm{pch} \end{aligned}$ |  |  |  |  |  | $\begin{aligned} & \qquad V_{12}=V_{R}+\left(V_{F}-V_{R}\right) P_{F D} \\ & E_{\mathrm{EO}}=\text { (Equation 25-8 or 25-9) } \\ & P_{\mathrm{FD}}=\text { using Equation (Exhibit 25-11) } \\ & V_{12}=\text { pc/h } \end{aligned}$ |  |  |  |  |  |
| Capacity Checks |  |  |  |  |  | Capacity Checks |  |  |  |  |  |
|  | Actual | Maximum |  | LOS F? |  | Actual |  |  | Maximum |  | LOS F? |
| $V_{\text {FO }}$ | 3498 |  | 25-7 | No | No | $V_{F l}=V_{F}$ |  |  |  |  |  |
|  |  |  |  |  |  | $V_{12}$ |  |  |  |  |  |
| $V_{R 12}$ | 1652 |  |  | No |  | $\begin{gathered} V_{F O}=V_{F} \\ V_{R} \end{gathered}$ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

Level of Service Determination (if not F)

|  | $D_{R}=5.475+0.00734 \mathrm{v}_{\mathrm{R}}+0$ |
| :--- | :--- |
| $\mathrm{O}_{\mathrm{R}}=$ | $14.1($ pc/mi/n $)$ |
| $\mathrm{LOS}=$ | $\mathrm{B}($ Exhibit $25-4)$ |
| Speed Estimation |  |
| $M_{S}=$ | $0.298($ Exibit $25-19)$ |
| $S_{R}=$ | $61.7 \mathrm{mph}($ Exhibit $25-19)$ |
| $S_{0}=$ | $68.5 \mathrm{mph}($ Exhibit $25-19)$ |
| $S=$ | $65.1 \mathrm{mph}($ Exhibit $25-14)$ |

Level of Service Determination (if not F)

$$
\mathrm{D}_{\mathrm{R}}=4.252+0.0086 \mathrm{~V}_{12}-0.0009 \mathrm{~L}_{\mathrm{D}}
$$

$D_{R}=(\mathrm{pc} / \mathrm{m} / \mathrm{l} / \mathrm{n})$
LOS = (Exhibit 25-4)
Speed Estimation
$D_{\mathrm{s}}=$ (Exhibit 25-19)
$S_{R}=\quad \quad \mathrm{mph}($ Exhibit $25-19$ )
$S_{0}=\quad \quad \mathrm{mph}($ Exhibit 25-19)
$s=\operatorname{mph}($ Exhibit 25-15)



Conversion to pc/h Under Base Conditions


| Level of Service Determination (if not $F$ ) | Level of Service Determination (if not F) |
| :---: | :---: |
| $\mathrm{D}_{\mathrm{R}}=5.475+0.00734 \mathrm{~V}_{\mathrm{R}}+0.0078 \mathrm{~V}_{12}-0.00627 \mathrm{~L}_{\mathrm{A}}$ | $\mathrm{D}_{\mathrm{R}}=4.252+0.0086 \mathrm{~V}_{12}-0.0009 \mathrm{~L}_{\mathrm{D}}$ |
| $\mathrm{D}_{\mathrm{R}}=$ ( $\mathrm{pc} / \mathrm{mi} / \mathrm{m}$ ) | $\mathrm{D}_{\mathrm{R}}=13.2(\mathrm{pc} / \mathrm{mi} / \mathrm{ln})$ |
| LOS= (Exhibit 25-4) | LOS = B (Exhibit 25-4) |
| Speed Estimation | Speed Estimation |
| $M_{s}=$ (Exibit 25-19) | $\mathrm{D}_{\mathrm{s}}=0.489$ (Exhibit 25-19) |
| $S_{R}=$ mph (Exhibit 25-19) | $S_{R}=56.3 \mathrm{mph}$ (Exhibit 25-19) |
| $S_{0}=\quad \mathrm{mph}$ (Exhibit 25-19) | $S_{0}=76.8 \mathrm{mph}$ (Exhibil 25-19) |
| $s=\quad \mathrm{mph}$ (Exhibit 25-14) | $S=63.5 \mathrm{mph}$ (Exhibil 25-15) |




## APPENDIX ' $P$ '

INTERIM YEAR (2020) BUILD FREEWAY SEGMENT AND RAMP LOS



DDOHV - Directional design hour volume $\quad$ LOS, S, FFS, $v_{p}$ - Exhibits 23-2, 23-3 $\quad f_{10}$ - Exhibit 23-7



| DOHV - Directional design hour volume | LOS, S, FFS, $V_{p}$ - Exhibits 23-2, 23-3 | $\mathrm{f}_{10}$ - Exhibit 23-7 |
| :---: | :---: | :---: |
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## BASIC FREEWAY SEGMENTS WORKSHEET







file:/C:Documents\%20and\%20SettingsthucbschmanLocal $\% 20$ SettingsTemprek $4 \mathrm{Al} . \mathrm{mmp}$

| DDHV - Directional design hour volume | LOS, S, FFS, v ${ }_{\text {p }}$ - Exhibits 23-2, 23-3 | $\mathrm{f}_{10}$ - Exhibit 23-7 |
| :---: | :---: | :---: |




## RAMPS AND RAMP JUNCTIONS WORKSHEET

General Information
Site Information

| Analyst | CRH | Freeway/Dir of Travel | 1-75 Northbound |
| :---: | :---: | :---: | :---: |
| Agency or Company | HW Lochner, Inc. | Junction | CR 41/Blanton Road Off-Ramp |
| Date Performed | 10126/06 | Jurisdiction | Pasco County |
| Analysis Time Period | DHV | Analysis Year | 2020 |
| Project Description 1-75 PD\&E Study-2020 NB Off Ramp at CR 41 (1.75 $=8$ Lanes) |  |  |  |
| Inputs |  |  |  |
| Upstream Adj Ramp | Terrain: Level |  | Downsiream Adj Ramp |
|  |  |  |  |
|  |  |  | FYes Fon |
| FNo TOff |  |  | TNo 「Off |
| $L_{u p}=\mathrm{ft}$ |  |  | $\mathrm{L}_{\text {down }}=620 \mathrm{ft}$ |
| $v_{u}=\quad \mathrm{veh} / \mathrm{h}$ | $\begin{array}{r} \mathrm{S}_{\mathrm{FF}}=70.0 \mathrm{mph} \\ \text { Sketch } \end{array}$ | $S_{F R}=35.0 \mathrm{mph}$ <br> lanes, $L_{A}, L_{0}, V_{R}, V_{1}$ ) | $\mathrm{V}_{\mathrm{D}}=370 \mathrm{veh} / \mathrm{h}$ |

## Conversion to pc/h Under Base Conditions





RAMPS AND RAMP JUNCTIONS WORKSHEET
Page 1 of 1


RAMPS AND RAMP JUNCTIONS WORKSHEET
Page 1 of 1









## Conversion to pc/h Under Base Conditions

| (pch) | $\begin{gathered} V \\ \text { (Vehhr) } \end{gathered}$ | PHF | Terrain | \%Truck | \%Rv | $f_{\text {HV }}$ | $f_{0}$ | $\begin{aligned} & V=\mathrm{V} / \mathrm{PHF} \times \\ & f_{H V} \times f_{p} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 3040 | 0.93 | Level | 14 | 2 | 0.931 | 0.95 | 3695 |
| Ramp | 830 | 0.89 | Level | 19 | 2 | 0.910 | 0.95 | 1079 |
| UpStream |  |  |  |  |  |  |  |  |
| DownStream | 990 | 0.89 | Level | 19 | 2 | 0.910 | 0.95 | 1287 |
| Merge Areas |  |  |  |  | Diverge Areas |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  | Estimation of $v_{12}$ |  |  |  |
| $V_{12}=V_{F}\left(P_{F M}\right)$ |  |  |  |  | $V_{12}=V_{R}+\left(V_{F}-V_{R}\right) P_{F D}$ |  |  |  |
| $\mathrm{EEO}=$ (Equation 25-2 or 25-3) |  |  |  |  | $L_{E Q}=$ (Equation $25-8$ or 25-9) |  |  |  |
| $\mathrm{P}_{\mathrm{FM}}=$ using Equation (Extibit 25-5) |  |  |  |  | $\mathrm{P}_{\mathrm{FD}}=0.618$ using Equation (Extibit 25-11) |  |  |  |
| $V_{12}=\mathrm{pc} / \mathrm{h}$ |  |  |  |  | $V_{12}=2696 \mathrm{pc} / \mathrm{h}$ |  |  |  |

Capacity Checks
Capacity Checks

|  | Actual | Maximum | LOSF? |  | Actual | Maximum | LOSF? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $V_{\text {FO }}$ |  |  |  | $V_{F 1}=V_{F}$ | 3695 | 7200 | No |
|  |  |  |  | $V_{12}$ | 2696 | 4400:All | No |
| $V_{\text {R12 }}$ |  |  |  | $\begin{gathered} V_{F O}=V_{F} . \\ V_{R} \end{gathered}$ | 2616 | 7200 | No |
|  |  |  |  | $V_{R}$ | 1079 | 2000 | No |
| Level of Service Determination (if not $F$ ) |  |  |  | Level of Service Determination (if not F) |  |  |  |
| $\begin{aligned} & \mathrm{D}_{\mathrm{R}}=5.475+0.00734 \mathrm{~V}_{\mathrm{R}}+0.0078 \mathrm{~V}_{12}-0.00627 \mathrm{~L}_{\mathrm{A}} \\ & \mathrm{D}_{\mathrm{R}}= \\ & \text { (pc/mi//n) } \\ & \mathrm{L}= \\ & \text { (Exhibit } 25-4) \end{aligned}$ |  |  |  | $\begin{aligned} & D_{R}=4.252+0.0086 \mathrm{~V}_{12}-0.0009 \mathrm{~L}_{\mathrm{D}} \\ & \mathrm{D}_{\mathrm{R}}=\quad 27.4(\mathrm{pc} / \mathrm{mi} / \mathrm{ln}) \\ & \mathrm{LOS}= \\ & C(\text { Exhibit } 25-4) \end{aligned}$ |  |  |  |
| Speed Estimation |  |  |  | Speed Estimation |  |  |  |
| $M_{S}=$ (Exibit 25-19) <br> $S_{R}=$ mph (Exhibit $25-19)$ <br> $S_{0}=$ mph (Exhibit $25-19)$ <br> $S=$ mph (Exhibit 25-14) |  |  |  | $\begin{array}{ll} D_{S}= & 0.525(\text { Exhibit } 25-19) \\ S_{R}= & 55.3 \mathrm{mph}(\text { Exhibit } 25-19) \\ S_{0}= & 76.8 \mathrm{mph} \text { (Exhibit } 25-19) \\ S_{S}= & 598 \mathrm{mph} \text { (Exhibit } 25-15) \end{array}$ |  |  |  |




| RAMPS AND RAMP JUNCTIONS WORKSHEET |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | General Information Site Information |  |  |  |
| Analyst <br> Agency or Company Date Performed Analysis Time Period | CRH HW Lochner, inc. 10/26/06 DHV | FreewayIDir of Travel Junction Jurisdiction Analysis Year | 1.75 Southbound SR 50/Cortez Blvd. On-Ramp Hernando Counly 2020 |  |  |
| Project Description 1-75 PD8E Study - 2020 SB On Ramp at SR $50(1.75=8$ Lanes) |  |  |  |  |  |
| Inputs |  |  |  |  |  |
| Upstream Adj Ramp  <br> F yes ГOn <br> O No F Off <br> $L_{u p}=$ 2360 ft <br> $v_{u}=$ 830 veh/h | Terrain: Level |  |  | Downstream Adj Ramp$\left\lvert\, \begin{array}{ll} \Gamma \text { Yes } & \Gamma \text { On } \\ \Gamma \text { No } & \Gamma \text { off } \\ \sigma_{\text {down }}= & H \end{array}\right.$ |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | $\begin{array}{r} \mathrm{S}_{\mathrm{FF}}=\begin{array}{r} 70.0 \mathrm{mph} \\ \text { Sketch } \end{array} \end{array}$ | $\begin{aligned} & \mathrm{S}_{\mathrm{FRR}}=35.0 \mathrm{mph} \\ & \left.V_{\mathrm{V}}, V_{\mathrm{f}}\right) \end{aligned}$ |  | $\mathrm{V}_{0}=$ | veh/h |

Conversion to pc/h Under Base Conditions

| (pch ${ }^{\text {\% }}$ | $\begin{gathered} V \\ (\mathrm{Veh} / \mathrm{hr}) \end{gathered}$ | PHF | Terrain | \%Truck | \%Rv | $\mathrm{f}_{\mathrm{HV}}$ | $\mathrm{f}_{0}$ | $\begin{aligned} & V=V / P H F x \\ & f_{H V} \times f_{p} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 2210 | 0.94 | Level | 14 | 2 | 0.931 | 0.95 | 2658 |
| Ramp | 990 | 0.89 | Level | 19 | 2 | 0.910 | 0.95 | 1287 |
| UpSitream | 830 | 0.89 | Level | 19 | 2 | 0.910 | 0.95 | 1079 |
| DownStrean |  |  |  |  |  |  |  |  |
| Merge Areas |  |  |  |  | Diverge Areas |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  | Estimation of $v_{12}$ |  |  |  |
| $V_{12}=V_{F}\left(P_{F M}\right)$ |  |  |  |  | $V_{12}=V_{R}+\left(V_{F} \cdot V_{R}\right) P_{F D}$ |  |  |  |
| $L_{\text {EO }}=$ (Equation 25-2 or 25-3) |  |  |  |  | $L_{\text {EO }}=$ (Equation 25-8 or 25-9) |  |  |  |
| $\mathrm{P}_{\mathrm{FM}}=0.258$ using Equation (Exthibit 25-5) |  |  |  |  | $\mathrm{P}_{\mathrm{FD}}=$ using Equation (Exhibit 25-11) |  |  |  |
| $\mathrm{V}_{12}=685 \mathrm{pch}$ |  |  |  |  | $V_{12}=\mathrm{pc} / \mathrm{m}$ |  |  |  |

Capacity Checks
Capacity Checks

|  | Actual | Maximum | LOS F? |  | Actual | Maximum | LOS F? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $V_{\text {Fo }}$ | 3945 | See Exhibit 25-7 | No | $V_{F 1}=V_{F}$ |  |  |  |
|  |  |  |  | $V_{12}$ |  |  |  |
| $V_{\text {R12 }}$ | 1972 | 4600:All | No | $\begin{gathered} V_{F O}=V_{F} \\ V_{R} \\ \hline \end{gathered}$ |  |  |  |
|  |  |  |  | $V_{R}$ |  |  |  |
| Level of Service Determination (if not F) |  |  |  | Level of Service Determination (if not F) |  |  |  |
| $\begin{aligned} & D_{R}= \\ & D_{R}= \\ & \text { LOS }= \end{aligned}$ | (e.00734 | + $0.0078 \mathrm{~V}_{12}-0.0$ |  | $\begin{cases}O_{R}= & \text { (pc/milln) } \\ \text { LOS }= & \text { (Exhibit 25-4) }\end{cases}$ |  |  |  |
| Speed Estimation |  |  |  | Speed Estimation |  |  |  |
| $M_{S}=0.305$ (Exibit 25-19) |  |  |  | $\mathrm{D}_{5}=$ (Exhibit 25-19) |  |  |  |
| $S_{R}=61.5 \mathrm{mph}($ Exhibit 25-19) |  |  |  | $S_{R}=$ mph (Exhibit 25-19) |  |  |  |
| $S_{0}=\quad 68.3 \mathrm{mph}($ Exhibit $25-19)$ |  |  |  | $S_{R}=\quad \begin{aligned} & \text { mph (Exhibit } 25-19)\end{aligned}$ |  |  |  |
| $S=64.7 \mathrm{mph}$ (Exhibit 25-14) |  |  |  | $\begin{cases}S_{0}= & \text { mph (Exhibit 25-19) } \\ S_{=}= & \text {mph (Exhibit 25-15) }\end{cases}$ |  |  |  |

## APPENDIX 'Q'

## DESIGN YEAR (2030) BUILD FREEWAY SEGMENT AND RAMP LOS



General Information

salculate Flow Adjustments

DDHV - Directional design hour volume $\quad$ LOS, S, FFS, $V_{p}$ - Exhibits 23-2, 23-3 $f_{10}$ - Exhibit 23-7


General Information

| Analyst | EJB |
| :--- | :--- |
| Agency or Company | HW Lochner, Inc. |
| Date Performed | $7 / 28 / 2005$ |
| Analysis Time Period | DHV |

Project Description 1-75 PD\&E - 2030 NB CR 41 to SR 50 (1-75 = 6 Lanes)

| $F$ Oper.(LOS) |  | $\Gamma$ Des.(N) |  | T Planning Data |
| :---: | :---: | :---: | :---: | :---: |
| Flow Inputs |  |  |  |  |
| volume, V | 4980 | veh/h | Peak-Hour Factor, PHF | 0.93 |
| AADT |  | veh/day | \%Trucks and Buses, $\mathrm{P}_{\mathrm{T}}$ | 14 |
| Peak-Hr Prop. of AADT, K |  |  | \%RVs, $P_{\text {R }}$ | 2 |
| Peak-Hr Direction Prop, D |  |  | General Terrain: | Level |
| DDHV $=$ AADT $\times K \times D$ | 005 | veh/h | Grade \% Length | mi |

こalculate Flow Adjustments



salculate Flow Adjustments

| $\mathrm{f}_{\mathrm{p}}$ | 0.95 |  | $E_{R}$ | 1.2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $E_{T}$ | 1.5 |  | $\mathrm{f}_{\mathrm{HV}}=1$ | 0.93 |  |
| Speed Inputs |  |  | Calc Speed Adj and FFS |  |  |
| Lane Width | 12.0 | ft | ${ }_{t}{ }_{\text {L }}$ | 0.0 | $\mathrm{mi} / \mathrm{h}$ |
| Rt-Shoulder Lat. Clearance | 6.0 | ft |  |  |  |
| Interchange Density | 0.50 | $1 / \mathrm{mi}$ | $\mathrm{fic}_{\text {L }}$ | 0.0 | $\mathrm{mi} / \mathrm{h}$ |
| Number of Lanes, N | 3 |  | $\mathrm{f}_{\text {ID }}$ | 0.0 | mih |
| FFS (measured) |  | mi/h | $\mathrm{f}_{\mathrm{N}}$ | 0.0 | $\mathrm{mi} / \mathrm{h}$ |
| Base free-flow Speed, BFFS | 75.0 | $\mathrm{mi} / \mathrm{h}$ | FFS | 75.0 | $\mathrm{mi} / \mathrm{h}$ |
| LOS and Performance Measures |  |  | Design (N) |  |  |
| Operational (LOS) |  |  | Design (N) |  |  |
| $v_{\mathrm{p}}=(\mathrm{V}$ or DDHV $) /\left(\mathrm{PHF} \times N \times \mathrm{f}_{\mathrm{HV}} \times\right.$ |  | $\mathrm{pc} / \mathrm{h} / \mathrm{ln}$ | Design LOS |  |  |
|  |  |  | $v_{p}=(V \text { or DDHV }) /\left(\mathrm{PHF} \times N \times f_{\mathrm{HV}} \times\right.$ |  | $\mathrm{pc} / \mathrm{h}$ |
| 5 |  | $\mathrm{mi} / \mathrm{h}$ |  |  | $\mathrm{mi} / \mathrm{h}$ $\mathrm{pc} / \mathrm{mi} / \mathrm{ln}$ |
| $D=v_{p} / \mathrm{S}$ |  | $\mathrm{pc} / \mathrm{mi} / \mathrm{ln}$ |  |  |  |
| Los | D |  | Required Number of Lanes, N |  |  |
|  |  |  |  |  |  |  |
| Glossary |  |  | Factor Location |  |  |
| $\checkmark$ - Number of lanes | S - Speed |  | $E_{R}$ - Exhibits23-8, 23-10 |  | $f_{\text {Lw }}$ - Exhibit 23-4 |
| $v$ - Hourly volume | D - Density |  |  |  |  |
| $v_{0}$ - Flow rate | FFS - Free-llow speed |  | $E_{T}$ - Exhibits 23-8, 23-10, 23-11 |  | $f_{\text {LC }}$ - Exhibit 23-5 |
| LOS -Level of service | BFFS - Base free-flow speed |  | $f_{p}$-Page 23-12 |  | $\mathrm{f}_{\mathrm{N}}$ - Exhibit 23-6 |

## BASIC FREEWAY WORKSHEET




## Calculate Flow Adjustments




| Irput | Outpu1 |
| :---: | :---: |
| FFS, M, \% | LOS, S, D |
| FFS, LOS, \% ${ }_{p}$ | $N, S, D$ |
| FFS, LOS, A | $V_{0}, S, 0$ |
| FFS, M, AXDT | LOS. S. 0 |
| FFS, LOS, AADT | $\mathrm{N}, \mathrm{S}, \mathrm{D}$ |
| FFS, L0S, M | $y_{1} \cdot 5.0$ |

General Information


Calculate Flow Adjustments





Calculate Flow Adjustments





## Calculate Flow Adjustments


file:/C:Documens $\% 20$ and $\% 20$ Setingsthuebschman Local $\% 20$ SettingsTempi2k4F6.mp

DDHV - Directional design hour volume $\quad$ LOS, S, FFS, $v_{p}$ - Exhibits 23-2, 23-3 $f_{\text {ID }}$ - Exhibil 23-7



Calculate Flow Adjustments


| DDDHV - Directional design hour volume | LOS, S, FFS, $\mathrm{V}_{\mathrm{p}}$-Exhibits 23-2, 23-3 | $\mathrm{flor}_{\text {ID }}$ - Exhibit 23-7 |
| :---: | :---: | :---: |
|  | HCstim version 53 |  |




## Calculate Flow Adjustments



| LDDHV - Directional design hour volume | LOS, S, FFS, $V_{p}-$ Exhibits 23-2, 23-3 |
| :--- | :--- |






Calculate Flow Adjustments


DOHV - Directional design hour volume LoS, S, FFS, $v_{p}$-Exhibits 23-2, 23-3 $\quad f_{I D}$-Exhibit 23-7



## Calculate Flow Adjustments



LDDHV - Directional design hour volume $\quad$ LOS, S. FFS, $V_{p}$ - Exhibits 23-2, 23-3 $f_{t 0}$ - Exhibit 23-7
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## Conversion to pc/h Under Base Conditions

| (pch $)$ | $\begin{gathered} V \\ \text { (Vehfhr) } \end{gathered}$ | PHF | Terrain |  | \%Truck | \%Rv | $\mathrm{f}_{\text {HV }}$ |  | $f_{\text {p }}$ | $\begin{aligned} & V=\text { VIPHF } x \\ & H_{H V} \times f_{p} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 3310 | 0.94 | Level |  | 14 | 2 | 0.931 |  | 0.95 | 3981 |  |
| Ramp | 1460 | 0.95 | Level |  | 19 | 2 | 0.910 |  | 0.95 | 1778 |  |
| UpStream | 1680 | 0.95 | Level |  | 19 | 2 | 0.910 |  | 0.95 | 2046 |  |
| DownStrean |  |  |  |  |  |  |  |  |  |  |  |
| Merge Areas |  |  |  |  |  | Diverge Areas |  |  |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  |  | Estimation of $v_{12}$ |  |  |  |  |  |
| $\begin{aligned} & \quad V_{12}=V_{F}\left(P_{F M}\right) \\ & L_{E O}=935.91 \quad \text { (Equation 25-2 or 25-3) } \\ & P_{F M}=0.595 \text { using Equation (Exhibit 25-5) } \\ & V_{12}=2368 \mathrm{pc} / \mathrm{h} \end{aligned}$ |  |  |  |  |  | $\begin{aligned} \quad & \quad V_{12}=V_{R}+\left(V_{F}-V_{R}\right) P_{F D} \\ E_{E Q} & =\text { (Equation 25-8 or 25-9) } \\ P_{F D}= & \text { using Equation (Exhibit 25-11) } \\ V_{12}= & \text { pc/h } \end{aligned}$ |  |  |  |  |  |
| Capacity Checks |  |  |  |  |  | Capacity Checks |  |  |  |  |  |
|  | Actual | Maximum |  | LOS F? |  | 0 |  |  | Maximum |  | LOS F? |
| $V_{\text {FO }}$ | 5759 | See Exhibil 25-7 |  | No |  | $V_{F 1}=V_{f}$ |  |  |  |  |  |
| $V_{R 12}$ | 4146 |  |  | No |  | $\begin{gathered} V_{F O}=V_{F} \\ V_{R} \end{gathered}$ |  |  |  |  |  |
|  |  |  |  |  |  | $V_{R}$ |  |  |  |  |  |
| Level of Service Determination (if not $F$ ) |  |  |  |  |  | Level of Service Determination (if not F) |  |  |  |  |  |
| $\begin{aligned} & \quad D_{R}=5.475+0.00734 \mathrm{~V}_{R}+0.0078 \mathrm{~V}_{12} \cdot 0.00627 \mathrm{~L}_{A} \\ & \mathrm{D}_{\mathrm{R}}= \\ & \mathrm{L}=\mathrm{33.1} \mathrm{(pc/mi/m)} \\ & \mathrm{~L}= \\ & \mathrm{D}(\text { Exhibit } 25-4) \end{aligned}$ |  |  |  |  |  | $\begin{array}{ll}  & D_{R}=4.252+0.0086 \mathrm{~V}_{12} \cdot 0.0009 \mathrm{~L}_{0} \\ D_{R}= & \text { (pc/mil/n) } \\ L O S= & \text { (Exhibit 25-4) } \end{array}$ |  |  |  |  |  |
| Speed Estimation |  |  |  |  |  | Speed Estimation |  |  |  |  |  |
| $M_{S}=0.524$ (Exibil 25-19)$S_{R}=055.3 \mathrm{mph}($ Exhibit 25-19) |  |  |  |  |  | $\begin{array}{ll} \mathrm{D}_{5}= & \text { (Exhibit } 25-19) \\ S_{R}= & \text { mph }(\text { Extubit } 25-19) \end{array}$ |  |  |  |  |  |
| $S_{R}=\quad 55.3 \mathrm{mph}$ (Exhibit 25-19) |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{ll} S_{0}= & 66.0 \mathrm{mph}(\text { Exhibit 25-19) } \\ S= & 58.0 \mathrm{mph}(\text { Exhibit 25-14) } \end{array}$ |  |  |  |  |  | $s_{0}=\quad \mathrm{mph}($ Exhibil 25-19) |  |  |  |  |  |
|  |  |  |  |  |  | $S=\quad \mathrm{mph}($ Exhibit 25-15) |  |  |  |  |  |



Conversion to pc/h Under Base Conditions

| ( $\mathrm{pc} / \mathrm{h}$ ) | V (Veh/hr) | PHF | Terrain | \%Truck | \%Rv | $\mathrm{I}_{\mathrm{HV}}$ | $\mathrm{f}_{\mathrm{p}}$ | $\begin{aligned} & V=V P H F \times \\ & f_{H V} \times f_{p} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 3310 | 0.94 | Level | 14 | 2 | 0.931 | 0.95 | 3981 |
| Ramp | 1460 | 0.95 | Level | 19 | 2 | 0.910 | 0.95 | 1778 |
| UpStream | 1680 | 0.95 | Level | 19 | 2 | 0.910 | 0.95 | 2046 |
| DownStream |  |  |  |  |  |  |  |  |
| Merge Areas |  |  |  |  | Diverge Areas |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  | Estimation of $v_{12}$ |  |  |  |
| $\begin{aligned} & V_{12}=V_{F}\left(P_{F M}\right) \\ & L_{E O}=\text { (Equation 25-2 or 25-3) } \\ & P_{F M}=0.193 \text { using Equation (Exhibit 25-5) } \\ & V_{12}=769 \text { pch } \end{aligned}$ |  |  |  |  | $\begin{aligned} & \quad V_{12}=V_{R}+\left(V_{F}-V_{\mathrm{R}}\right) P_{F D} \\ & L_{E O}=\text { (Equation 25-8 or 25-9) } \\ & P_{F D}=\text { using Equation (Exhibit 25-11) } \\ & V_{12}=\text { pc/h } \end{aligned}$ |  |  |  |

Capacity Checks
Capacity Checks

|  | Actual | Maximum | LOS F? |  | Actual | Maximum | LOS F? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $V_{\text {FO }}$ | 5759 | See Exnibit 25-7 | No | $V_{\text {Fl }}=V_{F}$ |  |  |  |
|  |  |  |  | $V_{12}$ |  |  |  |
| $V_{\text {R12 }}$ | 2547 | 4600:All | No | $\begin{gathered} V_{F O}=V_{F} \\ V_{R} \\ \hline \end{gathered}$ |  |  |  |
|  |  |  |  | $V_{R}$ |  |  |  |
| Level of Service Determination (if not F) |  |  |  | Level of Service Determination (if not F) |  |  |  |
| $\begin{aligned} & D_{R}= \\ & D_{R}= \\ & O S= \end{aligned}$ |  | +0.0078 $\mathrm{V}_{12} \cdot 0$ |  | $\left\lvert\, \begin{array}{ll} \mathrm{D}_{\mathrm{R}}= & (\text { (p/miAln }) \\ \text { LOS }= & \text { (Exhibit } 25-4) \end{array}\right.$ |  |  |  |
| Speed Estimation |  |  |  | Speed Estimation |  |  |  |
| $\begin{array}{ll} M_{S}= & 0.3 \\ S_{R}= & 60 . \\ S_{0}= & 66 . \\ S= & 63 . \end{array}$ | bit 25-19) (Exhibit 25 Exhibit 2 Exhibit 25 |  |  | $\mathrm{D}_{\mathrm{s}}=10$ | 25-19) |  |  |





## Conversion to pc/h Under Base Conditions

| (pch ${ }^{\text {c }}$ | $\begin{gathered} \text { V } \\ \text { (Vehihr) } \end{gathered}$ | PHF | Terrain | \% Truck | \%Rv | ${ }^{\text {i }} \mathrm{HV}$ | $\mathrm{f}_{\mathrm{p}}$ | $\begin{aligned} & V=V / P H F x \\ & f_{H V} \times f_{p} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Freeway | 2640 | 0.94 | Level | 14 | 2 | 0.931 | 0.95 | 3175 |
| Ramp | 1310 | 0.89 | Level | 19 | 2 | 0.910 | 0.95 | 1703 |
| UpStream | 1150 | 0.89 | Level | 19 | 2 | 0.910 | 0.95 | 1495 |
| DownStream |  |  |  |  |  |  |  |  |
| Merge Areas |  |  |  |  | Diverge Areas |  |  |  |
| Estimation of $v_{12}$ |  |  |  |  | Estimation of $v_{12}$ |  |  |  |
| $V_{12}=V_{F}\left(P_{F M}\right)$ |  |  |  |  | $V_{12}=V_{R}+\left(V_{F} \cdot V_{R}\right) P_{F D}$ |  |  |  |
| $L_{\text {EO }}=751.81$ (Equation 25-2 or 25-3) |  |  |  |  | $L_{\text {EO }}=$ (Equation 25-8 or 25-9) |  |  |  |
| $\mathrm{P}_{\mathrm{FM}}=0.595$ using Equation (Exhibit 25-5) |  |  |  |  | $\mathrm{P}_{\text {Fo }}=$ using Equation (Exhibit 25-11) |  |  |  |
| $V_{12}=1890 \mathrm{pc} / \mathrm{m}$ |  |  |  |  | $\mathrm{v}_{\mathrm{i} 2}=\mathrm{pch}$ |  |  |  |

Capacity Checks
Capacity Checks

|  | Actual | Maximum | LOSF? |  | Actual | Maximum | LOS F? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $V_{\text {FO }}$ | 4878 | See Exhibit 25-7 | No | $V_{\text {Fi }}=V_{F}$ |  |  |  |
|  |  |  |  | $V_{12}$ |  |  |  |
| $V_{R 12}$ | 3593 | 4600:All | No | $\begin{gathered} V_{F O}=V_{F} \\ V_{R} \end{gathered}$ |  |  |  |
|  |  |  |  | $V_{\text {R }}$ |  |  |  |
| Level of Service Determination (if not F) |  |  |  | Level of Service Determination (if not F) |  |  |  |
| $\begin{aligned} & D_{R}= \\ & D_{R}= \\ & L O S= \end{aligned}$ | 0.00734 mi/fy bit 25-4) | $+0.0078 \mathrm{~V}_{12}-0$. |  | $l \begin{aligned} & \mathrm{D}_{\mathrm{R}}= \\ & \text { LOS }=1\end{aligned}$ | $=4.252$ 1) 25-4) | $6 \mathrm{~V}_{12}-0.000$ |  |
| Speed Estimation |  |  |  | Speed Estimation |  |  |  |
| $M_{S}=0.419$ (Exibit 25-19) |  |  |  | $\mathrm{D}_{\mathrm{s}}=$ (Exhibit 25-19) |  |  |  |
| $S_{R}=58.3 \mathrm{mph}($ Exhibil 25.19$)$ |  |  |  | $S_{R}=\quad \mathrm{mph}($ Exhibit 25-19) |  |  |  |
| $\mathrm{S}_{6}=67.2 \mathrm{mph}($ Exhibit 25-19) |  |  |  | $S_{9}=\quad \mathrm{mph}($ (Exhibit $25-19)$ |  |  |  |
| $S=60.4 \mathrm{mph}($ Exhibit 25-14) |  |  |  | $s=m p h($ Exhibit 25-15) |  |  |  |



## Conversion to pc/h Under Base Conditions



## APPENDIX 'R'

AIR QUALITY AND NOISE TRAFFIC

This spreadsheet is designed to catculate the appropriate tratic data for use in the noise model - do not input values for items in "red"

TRAFFIC DATAFOR NOISE STUDIES


TOnta steets are to be fited out for every semment having a change ars trathe parameters such as wotumes. posted speeds, typical section. EIC)
NOTE: Alodeled ADT is the $\mathrm{LOS}(\mathrm{C})$ volume referenced in the FOOT LOS fables or demand, whichever is less.


| The following to STAMHATNM WNTUT |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The following afe spreadsheet catculations based on the inpul above. do not enter data befow this line |  |  |  |  |  |  |  |  |
| Existing Fac | illty Model: | LOS (C) | No-Buidd (Design Year) Modet: |  | $\operatorname{LOS}(C)$ | Etild (Oesign Year) Modet: |  | Demand |
| 10510 |  |  | 1050 |  |  | 1.510 |  |  |
| Southeround | Aulas | 239 | Scumyuend | Autcs | 2 St | Southtrima | Autos | 4990 |
|  | Med Trucks | 221 |  | thed Trucks | 221 |  | Fed Tructs | 462 |
|  | Hey Trucks | 152 |  | Higy Trats | 152 |  | Hry Truche | 317 |
|  | BuSes | 0 |  | Guses | 9 |  | Euses | 0 |
|  | Nothontes | 0 |  | betoregitus | 5 |  | Fiotorcyctes | 0 |
| Whathtound | nutas | 1878 | Morthtioumd | Autus | 1878 | Fioriniouthd | Ancs <br> thed Tenrks | 3921 |
|  | Stact Tucto | 174 |  | fatart Y mucts | 174 |  |  | 363 |
|  | He'y Itucis. | $\underline{115}$ |  | 4-y Th1ets | 119 |  | fice tracks | 248 |
|  | Buses FADtariveles | 5 |  | Eustis | 0 |  | Euses | 0 |
|  |  | 0 |  | Hetorcyers | 9 |  | tintorciotes | ) |
| Or:rizm! |  |  | Crimatid |  |  | [6encizat |  |  |
| Stutatumit | \%utos | 236 | Cobtheram: | Antos | 86 |  | Auks | 4396 |
|  | likui Truch | $\frac{22}{162}$ |  | tften Tratis | 48 |  | tatet lawas | 452 |
|  |  | 15 |  |  | 311 |  | Fry yrurtc | 311 |
|  | Etses tumbruatre | ? |  |  | 0 |  | Busts: <br>  | 6 |
|  | \%ercioutis | , |  |  | ! |  |  | 0 |
|  | andes | 13\% |  | -4.8: | 364 |  |  | 38.3 |
|  | 1.sut latio. | 13.4 |  | '4- है: | 355 |  |  | 365 |
|  | 1:\% \% futs | 123 |  |  |  |  |  | $2 \times 2$ |
|  | ?1\% | 3 |  | - + + - - | $\cdots$ |  | - | \% |
|  |  | ! |  |  | \% |  |  | 13 |

## TRAFFIC DATA FOR NOISE STUDIES

| Project: | 1.75 PDSE Study from north of SR 52 lo south of CR 4760 | Date | 4/5/2006 |
| :---: | :---: | :---: | :---: |
| State Project Numbers) |  | Prepared Ey | EfE |
| Work Program Nunber(s) |  |  |  |
| Federal Aid Number(s): |  |  |  |
| Segmena Description | Site 5. CR 41 (Blanton Road) to SR 50 (Coriez Blvd) |  |  |


NOTE Modeled AOT is the LOS(C) volume referenced in the FDOT LOS tables of demand, whichever is less


| STAMINATNM INPUT |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The tollowing are spreadsheet calculations based on the inplitabove - do not enter data below this fine |  |  |  |  |  |  |  |  |
| Existing Facility Model: |  | Demand | No-Euild (Design Year) Model: |  | $\operatorname{Los}(C)$ | Euild (Oesign Yeaf) Model: |  | Demand |
| 10510 |  |  |  | LOS (C) |  |  | LOS (C) |  |
| Sountmant | Autus, | 2391 | Southbount | Autos | 2391 | Southtorms | anles | 4990 |
|  | Fined Trucks | 221 |  | H.ted Trucks | 231 |  | Mad Tructs | 462 |
|  | Hiv Tructes | 152 |  | Huy Truchs | 152 |  | Hry Trucks | 317 |
|  | Euses | 3 |  | Euses | 0 |  | Eustes | 0 |
|  | hiohrectes | 0 |  | Motorcycies | 0 |  | motoriwles | 0 |
| Nemthemed | antos | 1875 | Noithtound | Fufos | 1878 | Hombtumd |  | 3527 |
|  | rede Taces | 174 |  |  | 174 |  |  | 363 |
|  | Hey Tratas | 116 |  | Med Trucks H:y Truchs | 119 |  | foed Tumbes Hor Truces | 249 |
|  | Euses | 9 |  | Hey Trucks Euses | 0 |  | Her Truces Euses | d |
|  | matorictes | 15 |  | twororeyes |  |  | Oftractes | 0 |
| Cutane |  |  | Qemem |  |  | Demam |  |  |
| Scumen, mit | 4,463 | $3+5$ | Suinmound | Hncs |  |  | $\therefore$ ins <br> Wife Thuth <br>  | 4295 |
|  | fandmay | 208 |  | Sed Thirics | $366$ |  |  | 3.36 |
|  | arse lucts | 143 |  | tur Thacins | 272 |  |  | 22 |
|  | Ensis | 0 |  |  | $\frac{1}{6}$ |  | Susce 1, motarter | 4 |
|  | dencrictics | 0 |  | Enses <br> Aramathes |  |  |  | $\square$ |
|  | Ans\% | 126.4 | 14384, | Antas <br> Móstoter <br> 14, Fun: <br> Buctis <br>  | 3565 |  |  | 3583 |
|  | foce thts | 63 |  |  | 311 |  |  | 31 |
|  | !aytrotue | 12 |  |  | 34 |  |  | 414 |
|  | Eracer | 6 |  |  | $\square$ |  |  | T |
|  |  | 1 |  |  | 4 |  |  | \% |

## TRAFFIC DATA FOR NOISE STUDIES



NOTE：Modeled AOT is the LOS（C）volume reterenced in the FOOT LOS tabtes of demand，whichever is less


| The STAMNANTNM INPUT |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The following are spreatsheet calculations based on the input above－do not enter data betow this tire |  |  |  |  |  |  |  |  |
| Existing Facitity Model： |  | Oemand | No－Buidd（Design Year）Model： |  | $\operatorname{Los}(C)$ | Build（Design Year）Model： |  | Demand |
| 16510 |  |  | W0， 0 |  |  | LSS |  |  |
| Scumbtrund | Autos | 2391 | Sounitound | A谁cs | 2351 | Sonthiound： | Autos | 4990 |
|  | Nemed Trucks | 221 |  | Ired Tructs | 221 |  | Almed Trucks | 462 |
|  | Hivy Tiurtes | 152 |  | tivy Thates | 152 |  | Hery Tructs | 317 |
|  | Exases | 4 |  | Buses | 0 |  | Euses | 0 |
|  | frigtorcyctes | 0 |  | tinterayctes | 13 |  | motorcyctes | 0 |
| incritheognd | futge | 1878 | Hentrbeond | Ambos | 1835 | fronthatund | Autis | 3921 |
|  | Hed Truth： | 174 |  | t．here Tfurts | 171 |  | med Trucks | 363 |
|  | Hy Touks | 119 |  | Huy Toticts | 119 |  | Ifyy Truches | 245 |
|  | Buces | 0 |  | Fifces | 0 |  | Buses | 0 |
|  | Nintoremes | d |  | Stotorturdes | 0 |  | Photercivites | 0 |
| Ufmend |  |  | atitizatid |  |  | T）ranret |  |  |
| Centmocurd | Antos | $23+5$ | Sorntucmit | － | 36.5 | Stithinemma | 4utes | C695 |
|  | F．4ert Trache | 206 |  | latectiostos | 3 |  | 和何佼 Tructas | 375 |
|  | F\％That | it3 |  | Hev Tames | 261 |  | Hery tutke | 261 |
|  | Eu56\％ | 0 |  | Buts： <br>  | a |  | Entres <br> Motocydes | ก |
|  |  | （3） |  |  | O |  |  | 0 |
| ［1untitatu， 1 | Autis | i 71 | 14，10， |  | 98S | tutathtemer | A $10: \times$ <br>  | $32=0$ |
|  | tact Tacke | 167 |  |  | 96 |  |  | 253 |
|  | H，Trame | 1： |  |  | TE |  | ＋1－y imathe | 215 |
|  | Brater | ${ }_{i}$ |  |  | ！ |  | Firss | 9 |
|  |  | U |  |  | 3 |  |  | ¢ |

## TRAFFIC DATA FOR NOISE STUDIES

$$
\text { 1.75 PO\&E Siudy from north of SR } 52 \text { to south of CR } 476 \mathrm{~B}
$$

State Project Number(s): $\qquad$
Date: $\qquad$
Work Program Number(s):
Federal Aid Numberss)
Segment Description
Site 9b: Southbound onramp at CR 41 (Etanton Road)

NOTE: Modeled ADT is the LOS(C) volume referenced in the FDOT LOS tabies or demand. whichever is less.


| STAMINATTNM INPUT |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The foltowing ate spreadsheet catculations based on the input above - do not enter data below this line |  |  |  |  |  |  |  |  |
| Existing Fachity Model: |  | Demand | No-Build (Design Year) Model: |  | $\operatorname{Los}(C)$ | Build [Design Yearl Model: |  | LOS (C) |
| LUS (C) |  |  | LOS (C) |  |  | bse |  |  |
| Sculhtuand | anos | 372 | Southeome | Autos | 372 | Sountomad. | Intios | 372 |
|  | Med Theks | 25 |  | Mied Trucks | 25 |  | ded Tructs | 25 |
|  | Hivy Tucks | 17 |  | Hey Trucks | 17 |  | Heytucks | 17 |
|  | Euses | 0 |  | Buses | 0 |  | Euses | 0 |
|  | thatorcyctes | 0 |  | 1.Anturcyctes | 6 |  | Motcicyes | 0 |
| Nombourid | Autos | 203 | Noathiburn | Autos | 293 | Honhtomet | Antes | 293 |
|  | Feted Thuck | 20 |  | Sted Tucts | 24 |  | Hedtumes | 20 |
|  | Hey Theks | 13 |  | Hig Thacks | 13 |  | Hy There | 13 |
|  | Euses | 6 |  | Suses | 0 |  | Enses | 0 |
|  | Matercyates | 3 |  | Wiotometes | 0 |  | 1.athrelas | 0 |
| Demand |  |  | Demma |  |  |  | Semam |  |
| Exmmeme | ithes | $1: 4$ | Sodnlinumit | $\therefore$-ntes | 5,6- | STanterst | Anos | 86.4 |
|  | lath lrects | 3 |  | ftedtrugs | 38 |  | fue: There | 38 |
|  | Hoy Thers | 5 |  | Hey Theme | 25 |  | Hey +ande; | 25 |
|  | Eusces | 0 |  | Euses <br> Botracytes | ( |  | WuEcs <br>  | 9 |
|  | Whaterats | 3 |  |  | i) |  |  | 1 |
| :M, | Bethes | 碞 | - |  | 4.4 |  |  | $\frac{14 \%}{35}$ |
|  | tras lrack | 5 |  | hat inche | 8 |  |  |  |
|  | Hesmaths | 4 |  |  | 2 |  |  | 2 |
|  | Eisec | 1 |  | Euse\% | , |  | $\begin{aligned} & \text { us, } \\ & \text {,ow, } \end{aligned}$ | $i$ |
|  | fationcolus | 3 |  | A.faty | \% |  |  | 9 |

## TRAFFIC DATA FOR NOISE STUDIES

| Project | 1.75 PDEE Study from north of SR 52 to south of CR 476 E | Oate: | 4/5/200G |
| :---: | :---: | :---: | :---: |
| State Project Number(s): |  | Prepared By: | EJ8 |
| Work Program Numbers ) |  |  |  |
| Federal Aid Numberts): |  |  |  |
| Segment Description: | Site 9a: Sounbound offamp at CR 41 (Elanton Road) |  |  |


NOTE: Modeted ADT is the LOS(C) volume relerenced in the FDOT LOS lables or demand. whichever is fess.

| Existing Facility | No-Euild (Design Year) |  | Build (Design Year) |  |
| :---: | :---: | :---: | :---: | :---: |
| Lanes: 1 | Lanes: | 1 | Lanes: | 1 |
| Year 2005 | Year | 2030 | Year: | 2030 |
| $\begin{array}{ll} \mathrm{ADT}: & \\ \mathrm{LOS}(\mathrm{C}) & 7.860 \\ \hline \end{array}$ | $\mid \operatorname{ADT},$ | 7.860 | $\begin{aligned} & A D T: \\ & \operatorname{LOS}(C) \end{aligned}$ | 7.860 |
| Demand 800 | Demand | 5.200 | Demand | 5,200 |
| Speed 35 | Speed | 35 mph | Speed: | 35 mph |
| 56 |  | 56 , kmh |  | 56 |
| $K=9$ | $k=$ | 9.4 \% | $k=$ | 9.4 \% |
| $\mathrm{D}=\frac{56}{\%}$ | D= | $56 \quad \%$ | $0=$ | 56 \% |
| $T=\quad 20.0$ \% lot 24 hrs | $T=$ | 20.0 for 24 hrs . | $\mathrm{T}=$ | 20.0 \% for 24 hrs |
| $T=\frac{10.0}{\%}$ Design th | $T=$ | 10.0 \% Designthr | $T$ | 10.0 \% Design to |
| 6.0 \% Medium Trucks DHV | 6.0 | \% Medium Trucks DHV | 6.0 | \% Mediem Trucks OHV |
| 40 \% Heavy Trucks DHV | 4.0 | \% Heavy Trucks DHV | 4.0 | \% Heavy Trucks DHV |
| 0.0 \% Buses DHV | 00 | \% Buses DHV | 0.0 | \% Buses DHV |
| 0.0 \% Matorcycles DHV | 0.0 | \% Motorcycles DHV | 0.0 | \% Motorcycles DHV |
|  |  |  |  |  |


| STAMINATNK NPUT |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The following are spreadsheet calculations based on the input above - do not enter data below this line |  |  |  |  |  |  |  |  |
| Existing Facility Model: |  | Demand | No-Build (Design Year) Model: |  | Demand | Butd (Design Year) Model: |  | Demand |
| 10510 |  |  | LOS (C) |  |  | LOSiC) |  |  |
| Soutibound | Autos | 372 | Southbound |  | 372 | Southbound | Autos | 372 |
|  | Ated Thucks | 25 |  | Hed Trucks | 25 |  | Fand Truchs | 25 |
|  | Hiny Tuchs | 17 |  | Hry Trucks | 17 |  | Hery Tructs | 17 |
|  | Buses | 9 |  | Bry mates Buses | 0 |  | Buses | 0 |
|  | Mutaryctes | 0 |  | Widurcodes | 0 |  | SMororcules | 6 |
| Nortubund | Atos | 29.3 | Worthtound. | Autes | 293 | tworthtound | Autos | 293 |
|  | Pated Thects | 26 |  | Wed Touck 5 | 20 |  | Wed Tumbs | 20 |
|  | Hive 7 forks | 13 |  | Hey Trucks | 13 |  | Hive tructs | 13 |
|  | Eusee | 0 |  | Eusis | 0 |  | Euses | 0 |
|  | Whorcictas | 0 |  | 1:hotocyles | 0 |  | AAmorciedes | 0 |
| Cemend |  |  | Demend |  |  | [amăп! |  |  |
| Seuthemed | Autos | 38 | Sablanam | Athes | 246 | Soundmum | Autos | 4 i |
|  | Bed Tincts | 3 |  | West Theks | if |  | Phed Tracks | 15 |
|  | Hoy Fuctes | 2 |  | Hay intks | 11 |  | Hwy Frachs | 11 |
|  | Euses | 0 |  | Eutes | 0 |  | Ex-s\% | 3 |
|  | Ammetues | 9 |  | tharemes | 0 |  | wormetes | 3 |
| Nombtame | Atites | 30 | Wentivem: | Astor | 16. | letrememe | 2atus | 18.4 |
|  |  | 2 |  | tebthecks | 13 |  | Und Tums | 13 |
|  | tsicluty | ! |  | H\% Trewt | 9 |  | they tums | 4 |
|  | Esmer | \% |  | ?asts <br> Fundrate | 1 |  | Euce <br>  | ii |
|  |  | 1 |  |  | 13 |  |  | i |

## TRAFFIC DATA FOR NOISE STUDIES

| Project | 1.75 PDEE Study from north of SR 52 to soulh of CR 476 B | Dale | 4/5/2006 |
| :---: | :---: | :---: | :---: |
| State Project Number(s) |  | Prepared Ey | EJE |
| Work Program Numberts). |  |  |  |
| Federal Aid Numberts): |  |  |  |
| Segment Description: | Site 10a: Northoound otramp al CR 41 (Elanton Road) |  |  |


NOTE: modeted ADT is the LOS(C) volume referenced in the FDOT LOS taties of demand, whichever is bess

| Existing Facility | No-Build (Design Year) |  | Build (Desion Year) |  |
| :---: | :---: | :---: | :---: | :---: |
| Lanes: $\quad 1$ | Lanes: | $1$ | Lanes: | 1 |
| Year: 2005 | Year: | 2030 | Year: | 2030 |
| $\begin{array}{ll} \hline \mathrm{ADT}: \\ \mathrm{LOS}(\mathrm{C}) & 7.860 \\ \hline \end{array}$ | ADT: | 7.860 | ADT: <br> $\cos (C)$ | 7.860 |
| Demand $\quad 2.400$ | Demand | 11.900 | Demand | 11.900 |
| Speed: | Speed | $\frac{35}{56} \mathrm{mph}$ | Speed: | $\frac{35}{56}$ |
| $K=0.4 \%$ | $k=$ | 9.4 \% | $K=$ | $9.41 \%$ |
| $D=\frac{56}{\%}$ | $\mathrm{D}=$ | 56 \% | $D=$ | 56 \% |
| $T=\frac{20.0}{\text { \% }}$ \% for 24 lus. | $T=$ | 20.0 \% tor 24 hrs | $T=$ | 20.0 \% for 24 hrs |
| $T=\frac{10.0}{\%}$ \% Design hr | $T=$ | 10.0 \% Design hr | T* | 10.0 \% Design hr |
| 6.0 \% Medium Trucks OHV |  | dium Trucks DHy |  | edium Trucks DHV |
| 40 \% Heavy Trucks DHV |  | vy Trucks DHV | 4.0 | eavy Trucks Dtiv |
| 0.0 \% Buses DHV |  | es DHV | 0.0 | uses DHVV |
| 00 \% Molracycles DHV |  | arcycles DHV | 00 | otarcycles DHV |


| The tollown |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The following are spreadsheet calculations based on the inpul above. do not enter data below this line |  |  |  |  |  |  |  |  |
| Existing Fac | ility Model: | Demand | No-Euild 10 | Oesign Year) Modei: | $\operatorname{Los}(C)$ | Autild (Desig | n Yearl Modet: | Los (C) |
| LGSiCi |  |  | 1054 |  |  | 105 Cl |  |  |
| Southround | Autos | 372 | Southtound | Sutos | 372 | Sounteurd | Autos | 372 |
|  | Hivy Trucks | $\frac{25}{17}$ |  | Pred Truchs | 25 |  | : hed Tracts | 25 |
|  | Buses | 0 |  | Hivy Truchs | 17 |  | Hiry Tucks | 77 |
|  | hiciorcyctes | 6 |  | Buses | 0 |  | Euses | 0 |
| Itermbound |  |  | Northbound. | Aulos | 293 |  | fintes |  |
|  | mutos | 243 |  |  |  | Normberme |  | 293 |
|  | thed Trucks | 20 |  | 1. Red Truchs | 5 |  | tuta Trucks | 20 |
|  | Hery inmes | 13 |  | AmeruchSusers | 13 |  | Hey Trucs | 13 |
|  | Eusts | 0 |  |  | 0 |  | Euntorstas | 0 |
|  | motoryctes | 0 |  | motorescles |  |  |  | 9 |
| Demang |  |  | Demined |  |  | Dement |  |  |
| Scumbound | Athos | 114 | Southroura |  |  | Strationamat | Autos | $515+$ |
|  | tied Trues | 6 |  | 1.ted Thate | 2is |  | leme Tructs | 39 |
|  | Heve Tucks | 5 |  | Haytucte | 35 |  | Hey Trums | 25 |
|  | Euses | 0 |  | Euses <br> informetes | 4 |  |  | \% |
|  | Bratemes | 6 |  |  | 9 |  | Euses <br> thotorgetes | 6 |
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|  | that itmes | 6 |  |  | $\bigcirc$ |  |  | 31 |
|  | bus iruts | 4 |  |  | 3 |  |  | 20 |
|  | Bile: <br> FAMtheras | 3 |  |  | ! |  |  | 0 |
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## TRAFFIC DATA FOR NOISE STUDIES


(Data sheels are to De filled oul tor every segment havala a change in tratir parameters such as volumes, posted speeds, Mpical section. ene )
NOTE: Modeled ADT is the LOS(C) volume referenced in the FDOT LOS tatles or demand, whicheves is less.


| STAMINATNM INPUT |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The following are spreadsheet catculations based on the inputabove - do not entet data betow this line |  |  |  |  |  |  |  |  |
| Existing fac | cility Model: | Demand | No-Build (Design Year) Model: |  | Oemand | Euld (Design Year) Model: |  | Demand |
| LGSC: |  |  | LOS(C) |  |  | LOS iC: |  |  |
| scuthfouns | Autes | 372 | Southtound | Autos | 372 | Southbound | Autas | 372 |
|  | Ment Theks | 25 |  | taed Trucks | 25 |  | Medtruchs | 25 |
|  | Hisy louts | 17 |  |  | 17 |  | Hey Teucts | 17 |
|  | Buses | 0 |  | Hvy Trucks Buses | 0 |  | Euses | 0 |
|  | Itouteractes | 0 |  | Motorcycles | 0 |  | 6.tomoraife | 4 |
| fouthtound | Athus | 293 | Flotbbound | 4tios | 293 | Nentherum | Altos | 293 |
|  | Ange Truchs | 20 |  | vied Tiucte | 20 |  | Wed truts | 20 |
|  | Heretack | 1.3 |  | Hry Trucks | 13 |  | Hu: Thats | 13 |
|  | Euccs | 0 |  | Eusts | 0 |  | Euses | 0 |
|  | Arteremes | 9 |  | Riotaroyes | 3 |  | thatoments | ${ }^{3}$ |
| Semend |  |  | Demand |  |  | Dcmend |  |  |
|  | -ntus | 85 | Soumberat | antos | 246 | Sumaremis: | -thes | 226 |
|  |  | 3 |  | Stect Thech | 16 |  | hestiacts | 15 |
|  | HSTHINS | 2 |  | Hmpructs | 11 |  | Hoy isuchs | 11 |
|  | Entas | 0 |  | Euses <br> fictorentits | 0 |  | Whtorefer | 4 |
|  | Themerats | 0 |  |  | 3 |  |  | 1 |
|  | Antr | 0 |  | 2510. <br> Tue Times <br> ine frucs <br> Bust <br>  | 19.9 | 120.0.abers | aute | 164 |
|  | tatillat | 2 |  |  | 13 |  | tactutuls | 14 |
|  | $\cdots \mathrm{Catam}$ | 1 |  |  | 6 |  | $\cdots \mathrm{moum}$ | 3 |
|  | \%es\% | \% |  |  | 0 |  | Enses | 1 |
|  | bituremex | $\square$ |  |  | 1 |  | Ftataneme | $\square$ |

## TRAFFIC DATAFOR NOISE STUDIES

| Project | 1.75 PD8E Study from north of SR 52 to south of CR 476 B | Date: | 4/5/2006 |
| :---: | :---: | :---: | :---: |
| Stale Project Number(s) |  | Prepared By | EJE |
| Work Program Number(s) |  |  |  |
| Federal Aid Number(s): |  |  |  |
| Segment Descriplion: | Site 12a: Southbound offramp at SR 50 (Contez Blud) |  |  |

(Bata sheets ate to be fibed oft for every segment having a change in fratlic parameters such as volumes. posted spetas, typucat section, exc)
NOTE: Modeled AOT is the LOS(C) volume reterenced in the FDOT LOS tables or demand, whichever is less


|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The following are spreadsheel catculations based on the input above - do not emter data below this line |  |  |  |  |  |  |  |  |
| Existing Facility Model: |  | Demand | No-Buid \{Design Yearl Model: |  | $\operatorname{Los}(C)$ | Build (Design Yearj Modet: |  | $\operatorname{LOS}(C)$ |
| $\operatorname{Los}(\mathrm{C})$ |  |  | LOS (C) |  |  | iosici |  |  |
| Smithtound | Autos | 335 | Soubltound | Autos | 335 | Southerund | Alus | 335 |
|  | lited Trucks | 48 |  | Fined Trucks | 48 |  | Fsed Tructs | 48 |
|  | Hivy Trucks | 31 |  | Hivy Truchs | 31 |  | Hery Trucks | 31 |
|  | Euses | 0 |  | Euses | 0 |  | Buses | 0 |
|  | Wotoracles | 0 |  | hotorcerses | 0 |  | Motercycles | 0 |
| Northourd | Autos | 26.3 | Herthoom: | Autas | 263 | Wentbund | Lutos | 263 |
|  | Fhed Thucks | 37 |  | Stes Trucks | 37 |  | Sted Trucks | 37 |
|  | Hy Thars |  |  | Hor Tructs | 24 |  | Hoy Thucks | 24 |
|  | Euses | 0 |  | Eusce | 0 |  | Euses | 0 |
|  | *torcyes | 0 |  | Whormmes | i |  | sictorcries | 0 |
| Demand |  |  | Demerd |  |  | Oemant |  |  |
| Scrntomat | itutos | 183 | Smeltwhat | Auis | 538 | Srumbuat | Antus | 66s |
|  | frecf hucks | 26 |  | Ofodicucos | 84 |  | thed Tucre | E4 |
|  | Hey Truchs | 17 |  | -tatruts | 54 |  | Hey Truches | 54 |
|  | Buses | 0 |  | Euses <br> thatracentes | ] |  | Euses <br> wotermes | 0 |
|  | twnoryotes | i) |  |  | 1 |  |  | 6 |
| Mathement | Atifoc | 114 | Wembemene | Ahts |  | fursiteran | antros <br> fuct liont: | $16 \%$ |
|  | Sos lincts | 4 |  | Sat litusift leats | 66 |  |  | 66 |
|  | We lums | 13 |  |  | 43 |  | 14.\% ? | 41 |
|  | Ebters | 4 |  | lusesarturates | 6 |  |  <br>  | \% |
|  | 勺bumem | 0 |  |  | 3 |  |  | ! |

## TRAFFIC DATA FOR NOISE STUDIES

| Project: | 1-75PO\&E Study from north of SR 52 to south ar CR 476 B | Date: | 4/5/2006 |
| :---: | :---: | :---: | :---: |
| Slate Project Numberts) |  | Prepared Ey | EJE |
| Work Program Numberts) |  |  |  |
| Federal Aid Numbers) |  |  |  |
| Segment Descriplion | Site 12b: Southbound onramp at SR 50 (Cortez Blvd) |  |  |


NOTE: Modeled ADT is the LOS(C) volume referenced in the FDOT LOS tables or demand, whichever is fess


| The STAMINATNM INPUT |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The following are spreadsheet catculations based on the input above - do not enter data below this line |  |  |  |  |  |  |  |  |
| Existing Facility Model: |  | Demand | No-Butd (Design Year) Model: |  | $\operatorname{LOS}(\mathrm{C})$ | Euild (Design Year) Model: |  | Demand |
| $\operatorname{Los}(C)$ |  |  | 10510 |  |  | Losci |  |  |
| Scuthbound | Autos | 335 | Southround | mutos | 335 | Soumbeund | Autcs | 839 |
|  | lied Trucks | 48 |  | Med Trucks | 48 |  | fied Tfucts | 119 |
|  | Hyy Tuucks Euses | 31 |  | Hey Trucks | 31 |  | Hisy Trucks | 78 |
|  | Euses | 0 |  | Buses <br> Motercicies | 0 |  | Euses | 0 |
|  | Motercyctes | 0 |  |  | 9 |  | AOtmeytas |  |
| flombound | futus | 263 | Nemthound. | Aulos | 263 | Dorthbened | futos | 659 |
|  | Med Tricks Hoy Teucks | 37 |  | Med Trucks | 37 |  | Heat Itacks | 0.4 |
|  | Hry Tucks Euses | 24 |  | Hin Tucks | 24 | Hyutucks 61 |  |  |
|  | i.totore | 0 |  | Busesmotoryeses | 3 | Eusos 0 |  |  |
|  |  |  |  |  | 5 | froteremsa |  | 0 |
| Demani |  |  | Eifmeng |  |  | Crment |  |  |
| Sartimanat | Antos | 260 | Southterns | antos | 67 | Srumatand | Sum | $5 \% 4$ |
|  | Wed Theks | 37 |  | thed Thok: | 6 |  | Med Inmes | 4 |
|  | Hy Thects | 24 |  | Ifo Tructs | 6 |  | Hevimots Eust: | 62 |
|  | Euses | 0 |  | Euses <br> botructes | 6 |  |  | 1 |
|  | magcites | 0 |  |  | 9 |  | Euste <br> Hommes | D |
| :30tyman | Anme | 29 |  | antos <br>  <br> Hey Theres <br> Elises <br> Tramar \|s | $\frac{5}{5}$ | 4, 4tant |  <br>  <br>  <br> 1.15-3. <br>  | 52 |
|  | 1.7ed Thate | $\underline{29}$ |  |  |  |  |  | 75 |
|  | tey Tomes | 19 |  |  | 4 |  |  | 14 |
|  | etats | 0 |  |  | 6 |  |  | \% |
|  |  | () |  |  | $\bigcirc$ |  |  | 3 |

## TRAFFIC DATA FOR NOISE STUDIES

| Project | 1-75 PD\& Siudy flom north of SR 52 to south of CR 476 E | Date | 4/5/2006 |
| :---: | :---: | :---: | :---: |
| State Project Number(s): |  | Prepared By: | E. 38 |
| Work Program Number\{s) |  |  |  |
| Federal Aid Number(s) |  |  |  |
| Segment Dascription: | Site 13a: Northbound offramp at SR 50 (Cortez Elva) |  |  |


NOTE Modeled ADT is the LOS(C) volume referenced in the FDOT LOS zables of demand, whichever is less.


| STAMINATNM INPUT |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The following are spreadsheet calculations based on the inpot above - do not enter data below this line |  |  |  |  |  |  |  |  |
| Existing Facility Model: |  | Demand | No-Guild (Design Yeat) Modet: |  | $\operatorname{LOS}(C)$ | Euild (Design Year) Model: |  | Demand |
| tos 16 |  |  | Cos/ct |  |  | LOS 61 |  |  |
| Scuthtround | Autos | 335 | Sountround | astos | 335 | Southbound | Autos | 939 |
|  | Weatruchs | 48 |  | Tred Trucks | 48 |  | Aned Tructs | 119 |
|  | Hicy Trucks | 31 |  | Higy Tructes | 31 |  | Hojtrucks | 75 |
|  | Butes | 4 |  | Euses | 0 |  | Euses | 5 |
|  | tratoroves | 0 |  | bstorcycies | 1 |  | Wotcreycles | 6 |
| Wentutoma | Autos | 263 | rronkboud | Antos | 263 | Nombenm | Autos | 65:4 |
|  | bedtucts | 37 |  | Wed Truck | 37 |  | ded Trucks | 9. |
|  | Fy, Yacks | 34 |  | WigTrack | 24 |  | Hyy Tuets | 61 |
|  | Euses | 0 |  | Euses | 9 |  | Euses | 9 |
|  | Sturevers | 13 |  | hatoryctes | [1 |  | thetricumits | 11 |
| Demene |  |  | Demand |  |  | Deniant |  |  |
| Gomenato | Fites | 0 | momeamer | 2ntos | 68.4 | Scmaternat | atus | 69 |
|  | Stee Thaks | 37 |  | Stes Thems | 96 |  | Feded Tlucts | 6 |
|  | He\% Thets | 24 |  | idstatis | 52 |  | -rip Praten | 62 |
|  | Euses | 0 |  | Guses | , |  | Euses | ? |
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| Whatanet | Antor | 243 | 16, | Atitet | 5 |  | Anso | 5 |
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|  | 14. Mizits | 19 |  |  | 45 |  | Mel Tat: per figits | 4 |
|  | fucse | 4 |  | $4 \because \text { Tucres }$ | 9 |  | - frivits G:O | i. |
|  |  | 6 |  | - mante: 1.... | $\square$ |  | W?a, ir: | i) |

## TRAFFIC DATA FOR NOISE STUDIES

| Project: | 1.75 PO\&E Sludy from north of SR 52 to south of CR 476 E | Date: | 4/5/2006 |
| :---: | :---: | :---: | :---: |
| State Project Number (5) |  | Piepared By | EJE |
| Work Program Number(s) |  |  |  |
| Federal Aid Number(s): |  |  |  |
| Segment Description: | Site 13b: Northbound onramp at SR 50 (Corfez Blvd) |  |  |


NOTE: Modeled ADT is the LOS(C) volume referenced in the FDOT LOS tables or demand, whichever is iess


| STAMINATNM INPUT |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The following are spreadsheer calculations based on the input above - do not enter data below this tine |  |  |  |  |  |  |  |  |
| Existing Facility Model: |  | Demand | No-Build (Design Year) Model: |  | $\operatorname{LOS}(C)$ | Build (Design Year) Model: |  | $\operatorname{Los}(C)$ |
| $\cos 1 \mathrm{C})$ |  |  | tos (C) |  |  | $\operatorname{Losici}$ |  |  |
| Southtound | Antos | 335 | Soutrbound | sutos | 335 | Suathbourd | Autos | 335 |
|  | h.fed Trucks | 48 |  | twed Tructs | 18 |  | Med Tfuch 5 | 48 |
|  | Hry Trucks | 31 |  | Hoytructs | $3 \pm$ |  | Hive Trucks | 31 |
|  | Euses | 0 |  | Euses | 0 |  | Euses | 0 |
|  | Nibotoricles | 9 |  | Fotutcychers | 1 |  | motorcyeles | 0 |
| Natthousis | Autos | 263 | Nontheurid | Autos | 253 | Hormbouts | Autos | 26.3 |
|  | Wed Tructs | 37 |  | titer Tructs | 37 |  | Wed Trubs | 37 |
|  | FWy Tructs | 24 |  | Hig Thers | 4 |  | Hey Trucks | 24 |
|  | Eusce | 0 |  | Euses | 6 |  | Euses | 0 |
|  | Watrowles | 0 |  | Whomereme | 3 |  | Antrceise | 1 |
| Ofmend |  |  | Trimet |  |  | Sement |  |  |
| Sethtortid | andos | 123 | Satmemes | -uss | \% | Samtamas | Aubs | 568 |
|  | Pees Truchs | 26 |  | Diget Tatis | 94 |  | Fied Trucks | 54 |
|  | H6\% Thers | 17 |  | Heretrets | 5.4 |  | Higitharts | 5 |
|  | Euses | 0 |  | Euses | ? |  | Buses | 0 |
|  | t.agmentes | 6 |  | Hftucuts | 4 |  |  | 0 |
| 20matem: | $\therefore$ Ates | 14.4 | Wexthemer | fisates | 123 | Wenticatios | 2ithes | 162 |
|  | bet bame | 20 |  |  | 6 |  | NRan lowe | 65 |
|  | Welrats | 11 |  | Hre Bhers | 45 |  | Hay ! | 4. |
|  | E, $\mathrm{S}_{\text {cs }}$ | \% |  | Stase | ? |  | Emers | 3 |
|  | Forsesmbey | 0 |  | tatareme | I |  | Shaterater | $\because$ |

## TRAFFIC DATA FOR NOISE STUDIES


（Data sheels ate to be filled out for every segmem haviry a charge in traffic parameters such as vohames，posted spetws，fypical section，etc）
NOTE：Modeled ADT is the LOS（C）volume referenced in the FDOT LOS tables or demand，whichever is less


|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The following are spreadsheet caiculations based on the imput above do not enfer data below this line |  |  |  |  |  |  |  |  |
| Existing Facility Model： |  | Demand | No－Buitd（Design Year）Model： |  | $\operatorname{LOS}(C)$ | Buidd（Design Yeafy Madea： |  | 105101 |
| 153 |  |  | 6 Cb |  |  | 196 |  |  |
| Wembramaj | Antos | 117\％ | $\therefore$ abstumud | Abso | 1176 | Masplumat | Aldes | i是； |
|  | Fion Truss | 23 |  | Spet ituctu | 23 |  | Sted Fruste | 36 |
|  | －rov Truts | 67 |  | HE，Trucs | 5 |  | H－4 Thacks | 315 |
|  | Etices | 6 |  | Entos | E |  | E1： | 9 |
|  | thtormetes | 5 |  | Wibtorestes | 5 |  | Whtoterdes | 9 |
| Fenthomm | Aimes | 982 | E3ctioun： | Atas |  | Exatemad | rututiz | 1689 |
|  | Fitcl Thets | 19 |  | Mast Tomets | 19 |  | Otat Truth | 31 |
|  | foy Tames | 56 |  |  | 37 |  | －ty Tucta | 39 |
|  | Etaster | 5 |  | 5ises | \％ |  | Enses | ？ |
|  | Stomereths | כ |  |  | 6 |  | SAntreveres | － |
| 「armbis |  |  | Exames |  |  | Terman |  |  |
|  | － Cta | 11：2 |  |  | 3819 |  | S 1418 | \％ 15 |
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|  | Buram | ＋ |  |  | U |  | 二小， | 16 |
|  |  | 5 |  |  | ！ |  | $\cdots$ 成为 | ！ |
| －8， | $\therefore \mathrm{Ca}$ | \％ |  | ? | 36 |  |  | S |
|  |  | ＋ |  |  | \％ |  |  | \％ |
|  | $\because$ ！：．： |  |  |  | \％ |  | －\％： | $\cdots$ |
|  |  | \％ |  | \％－ | 16 |  | $\therefore$ ： | $\because$ |
|  |  | \％ |  |  | 4 |  | $\because \because$. | $\bigcirc$ |

## TRAFFIC DATA FOR NOISE STUDIES

| Project. | 1.75 PDEE Study from north of SR 52 to south of CR 476 B | Oate | 11/2/2006 |
| :---: | :---: | :---: | :---: |
| State Project Number(s): |  | Prepared By: | FJo |
| Work Program Number(s) |  |  |  |
| Federal Aid Numberis): |  |  |  |
| Segment Description: | Site 8: SR 50 (Contez Blvd) West of t-75 |  |  |

(Data sheets are to be bited out lor every segment having a change in traftic parameters such as wotumes posled speeds. typtal sectuan. Etc.)
NOTE: Modeled ADT is the LOS(C) volume referenced in the FDOT LOS sables or demand, whichever is less.


| STAMINATNM INPUT |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The following are spreadsheet calculations based on the input above - do not enter data helow this lime |  |  |  |  |  |  |  |  |
| Existing Fa | cility Model: | Demand | No-Euild foesign Year) Model: |  | $\operatorname{Los}(C)$ | Buid (Design Year) Model: |  | $\operatorname{Los}(\mathrm{C})$ |
| Cs |  |  | 108 |  |  | 45 |  |  |
| 2ivermond | a 4 ¢! | 1105 | Hosthomivt | athes | 165 | Vestecm | tutos | 1815 |
|  | Foen Theme | 0 |  | fed trieks | 5 |  | Fied Truets | 39 |
|  | Hy Tucts | 7 |  | fy heres | 5 |  | Hotuchs | $1: 6$ |
|  | Busen | ? |  | $3: \mathrm{EES}$ | $\stackrel{7}{7}$ |  | Euses | ! |
|  | Everomes | i) |  | Neracyers | $\cdots$ |  | thtmeghs | \% |
| Essboumi | Autes | 972 | Eximoma | matios | 02\% | Ememonmi | Andes <br> ?w Tramb | 1515 |
|  | Matmest | 21 |  | Sed Temets | 2 |  |  | $3{ }^{3}$ |
|  | ary Thas | $\underline{\square}$ |  | +9, Tucts | \% |  | sob lramb | 97 |
|  | Buses | \% |  | 3ises | \% |  | Guses | 3 |
|  | Womemem | \% |  | 6omentins | \% |  | Wancram | 7 |
| Eamat |  |  | Camam |  |  | Yement |  |  |
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|  | 8, | \% |  | 3nes | ! |  | Amom | ! |
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|  | H-1, : | 3 |  |  | \% |  | $\begin{aligned} & \because \pi \\ & \because \end{aligned}$ | 3 |

# DISTRICT 7 TRAFFIC DATA FOR AIR STUDY SCREENING TEST 

DATE: 04/25/06 $\qquad$

PREPARED BY: Ed Bryant, PE

Work Program Item Segment Number(s): 411014-1-22-01

Federal Aid Number(s): 0751-1201
Project Description: 1-75 PD\&E Study from north of SR 52 to south of CR 476B (Pasco, Hemando, and Sumter Counties, Florida)

NOTE: The most congested intersection is the intersection with the highest total volume and lowest departure speeds and it could be two different intersections based on the Build vs. No-Build alternatives. The traffic volumes are to be the peak vph of the most congested leg approaching the intersection (values between 1000-9999 are accepted into the computer model). The speeds are to be the average cruise speed / mid-block speed for the most congested leg and the model will accept values between $15-65 \mathrm{mph}$.

OPENING YEAR: 2010
"BUILD"
Most Congested Intersection:
$1-75$ (SR 93) SB Ramps at SR 50
Peak Hour Traffic
for most congested leg: _1,561 uph
Specify leg: WB SR 50-Cortez Blvd
Average Cruise Speed: 45 mph
"NO-BULLD"

Most Congested Intersection: 1-75 (SR 93) SB Ramps at SR 50 Peak Hour Traffic for most congested leg: $1,561 \mathrm{vph}$ Specify leg:WB SR 50-Cortez Blvd Average Cruise Speed: 45 mph

DESIGN YEAR : 2030

## "BUILD"

Most Congested Intersection:
1-75 (SR 93) NB Ramps at SR 50
Peak Hour Traffic
for most congested leg: $3,389 \mathrm{vph}$
Specify leg: WB SR 50-Cortez Blvd
Average Cruise Speed: 45 mph

## "NO-BUILD"

Most Congested Intersection:
1-75 (SR 93) NB Ramps at SR 50
Peak Hour Traffic
for most congested leg: 3,389 vph Specify leg: WB SR 50-Cortez Blvd
Average Cruise Speed: 45 mph


[^0]:    DDHV - Directional design hour volume
    LOS, S, FFS, $V_{D}$-Exhibits 23-2, 23-3 $\quad f_{1 D}$ - Exhibit 23-7
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