

***Traffic Impact Study  
Southern Colorado Rail Park  
El Paso County, Colorado***

Submitted by:  
Wilson & Company  
5755 Mark Dabling Boulevard, Suite 100  
Colorado Springs, CO 80919  
(719) 520-5800

September 2023

Wilson & Company, Inc., Engineers & Architects

By 

Eric Lundberg, PE, PTOE, RSP1  
Senior Traffic Planning Project Manager

## TABLE OF CONTENTS

|  |    |
|--|----|
| 1 – Introduction .....   | 4  |
| 1.1 Project Description .....  | 4  |
| 1.2 Study Objectives .....   | 4  |
| 1.3 Intersection Analysis Methodology.....                           | 6  |
| 2 – Existing Conditions .....  | 8  |
| 2.1 Roadway System .....   | 8  |
| 2.2 Traffic Volumes.....   | 8  |
| 2.3 Traffic Operations .....   | 9  |
| 3 – Project Trip Generation .....                                    | 11 |
| 4 – Trip Distribution and Assignment.....                            | 15 |
| 5 – Forecast Traffic Volumes .....                                   | 20 |
| 5.1 Background Traffic .....   | 20 |
| 5.2 Total Traffic .....  | 20 |
| 6 – Intersection LOS Analysis.....                                   | 27 |
| 6.1 Background Conditions Traffic Operations Analysis .....          | 27 |
| 6.1.1 Traffic Operations Analysis for 2035 Background Traffic .....  | 27 |
| 6.1.2 Traffic Operations Analysis for 2040 Background Traffic .....  | 27 |
| 6.1.3 Traffic Operations Analysis for 2045 Background Traffic .....  | 28 |
| 6.2 Background Plus Site Conditions Traffic Operations Analysis..... | 27 |
| 6.2.1 Traffic Operations Analysis for 2035 Total Traffic .....       | 28 |
| 6.2.2 Traffic Operations Analysis for 2040 Total Traffic .....       | 29 |
| 6.2.3 Traffic Operations Analysis for 2045 Total Traffic .....       | 29 |
| 7 – Recommendations .....  | 30 |
| 7.1 Future Connection to I-25 .....                                  | 30 |
| 7.2 Internal Roadway Classifications.....                            | 30 |
| List of Acronyms and Definitions .....                               | 31 |
| List of References .....   | 33 |

## List of Figures

|  |    |
|--|----|
| Figure 1-1 Southern Colorado Rail Park Site Location .....     | 5  |
| Figure 2-1. 2023 Existing Traffic Volumes .....                | 10 |
| Figure 4-1. Trip Directional Distribution .....                | 16 |
| Figure 4-2. Phases 1&2 Site-Generated Traffic Assignment ..... | 17 |
| Figure 4-3. Phases 1-3 Site-Generated Traffic Assignment ..... | 18 |
| Figure 4-4. Buildout Site-Generated Traffic Assignment .....   | 19 |
| Figure 5-1. 2035 Background Traffic .....                      | 21 |
| Figure 5-2. 2040 Background Traffic .....                      | 22 |
| Figure 5-3. 2045 Background Traffic .....                      | 23 |
| Figure 5-4. 2035 Total Traffic .....                           | 24 |
| Figure 5-5. 2040 Total Traffic .....                           | 25 |
| Figure 5-6. 2045 Total Traffic .....                           | 26 |

## List of Tables

|  |    |
|--|----|
| Table 1-1. LOS Criteria for Signalized Intersections .....                         | 6  |
| Table 1-2. LOS Criteria for Unsignalized Intersections .....                       | 7  |
| Table 2-1. Existing Conditions Traffic Operations Summary.....                     | 9  |
| Table 3-1. Southern Colorado Rail Park– Trip Generation Estimate (Phases 1-2)..... | 12 |
| Table 3-2. Southern Colorado Rail Park– Trip Generation Estimate (Phases 1-3)..... | 13 |
| Table 3-3. Southern Colorado Rail Park– Trip Generation Estimate (Phases 1-4)..... | 14 |
| Table 6-1. Traffic Operations Summary for 2035 Background Traffic .....            | 27 |
| Table 6-2. Traffic Operations Summary for 2040 Background Traffic .....            | 27 |
| Table 6-3. Traffic Operations Summary for 2045 Background Traffic .....            | 28 |
| Table 6-4. Traffic Operations Summary for 2035 Total Traffic .....                 | 28 |
| Table 6-5. Traffic Operations Summary for 2040 Total Traffic .....                 | 29 |
| Table 6-6. Traffic Operations Summary for 2045 Total Traffic .....                 | 29 |

## Appendices

|  |         |
|--|---------|
| Appendix A: Sketch Plan .....                                  | 34-35   |
| Appendix B: Traffic Counts .....                               | 36-62   |
| Appendix C: Existing Conditions Synchro Analysis Reports ..... | 63-73   |
| Appendix D: Background Traffic Synchro Analysis Reports .....  | 74-104  |
| Appendix E: Total Traffic Synchro Analysis Reports.....        | 105-147 |

## 1 – INTRODUCTION

### 1.1 Project Description

The Southern Colorado Rail Park (SCRP) is a proposed industrial park located within El Paso County, Colorado, with potential future annexation into the City of Fountain. As shown in **Figure 1-1**, the site is bordered by Fort Carson to the north, south, and west, City of Fountain property to the east, and the Ray Nixon powerplant to the southeast. The site is planned to be developed over four phases, with all but the first phase, which involves only extension of the rail line into Fort Carson, evaluated for this study. The planned land use mix for the site will be primarily light and heavy industrial, with some retail and storage/warehousing uses also expected. The Sketch Plan exhibit is included in **Appendix A**.

Build-out of the site is expected to progress over a period of about 20 years, with construction planned to begin in Spring 2025 and each subsequent phase beginning in five-year intervals.

Initially, access to the site will be to Charter Oak Ranch Road only. A planned future connection to Interstate 25 (I-25) near milepoint (MP) 125.7 (or approximately 2.25 miles south of the US 85 interchange) will improve access to the site and provide the connectivity to adequately serve full buildout of the development. The planned connection to I-25 would align with the proposed extension of Powers Boulevard, which will connect with I-25 from the east.

### 1.2 Study Objectives

This report provides an assessment of potential traffic impacts to Charter Oak Ranch Road and US 85 associated with each phase of the development of the Rail Park. Recommendations for the functional classification of the roadways internal to the site are also provided.

Although assumed to be in place by the full buildout of the site for this study, the planned future connection to I-25 is not analyzed as part of this report. The planned I-25 interchange will be evaluated as part of a future interstate access request.

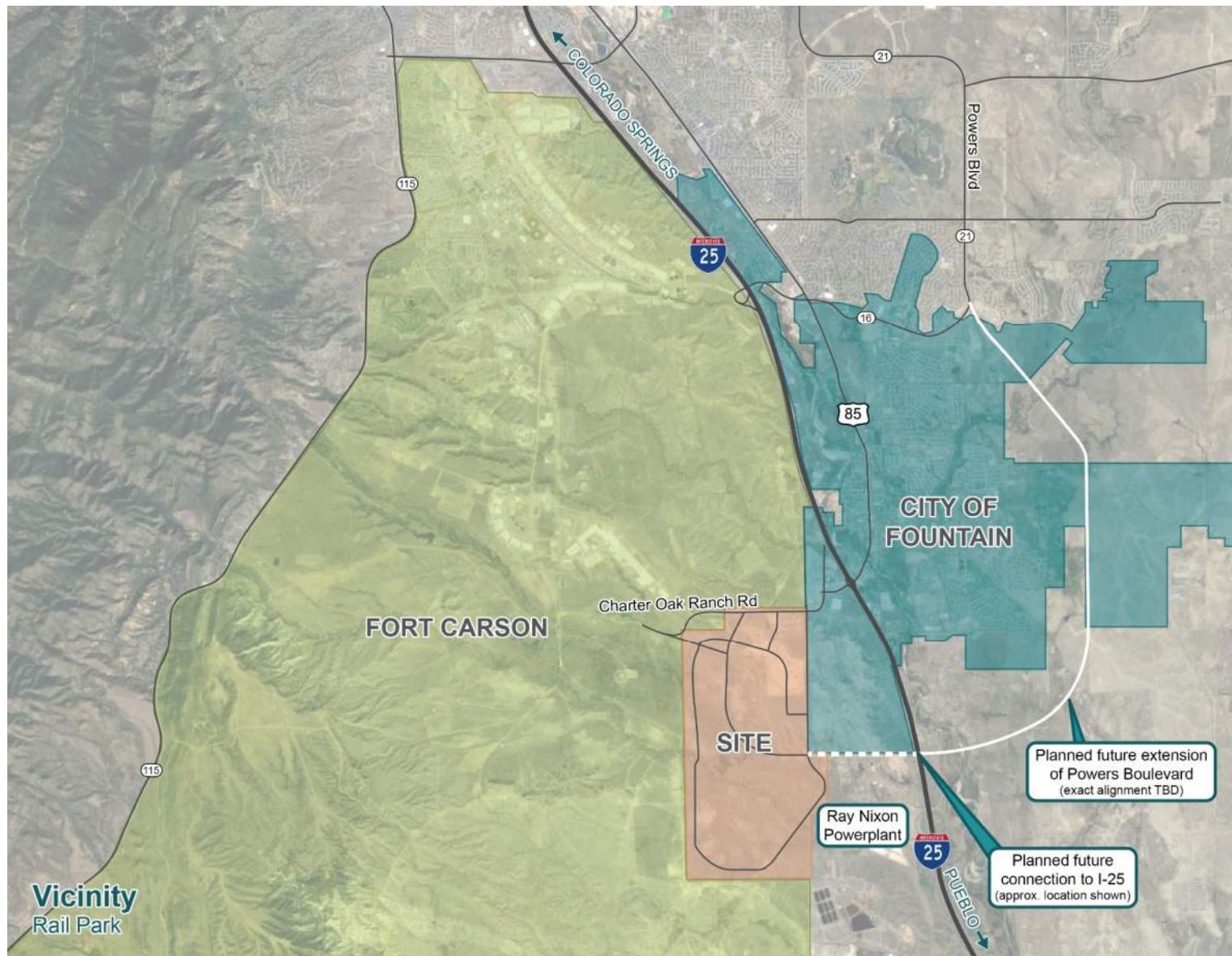


Figure 1-1. Southern Colorado Rail Park Site Location

## 1.3 Intersection Analysis Methodology

### Traffic Operations

The traffic operations analysis addresses unsignalized, signalized and modern roundabout intersection operations using the procedures and methodologies contained in the Highway Capacity Manual Sixth Edition (HCM6) (Transportation Research Board, 2016) for weekday AM and PM peak hour traffic operations. Study intersection operations were evaluated using level of service calculations as analyzed in the Synchro software version 11.

To measure and describe the operational status of the local roadway network and corresponding intersections, transportation engineers and planners commonly use a grading system called level of service (LOS). LOS is a description of an intersection's operation, ranging from LOS A (indicating free flow traffic conditions with little or no delay) to LOS F (representing oversaturated conditions where traffic flows exceed design capacity, resulting in long queues and delays).

### Signalized Intersections

At signalized intersections, the operational analysis uses various intersection characteristics (such as traffic volumes, lane geometry, and signal phasing) to estimate the intersection's volume-to-capacity (v/c) ratio. For signalized intersections, the HCM defines the LOS as the average delay per vehicle for the overall intersection. **Table 1-1** summarizes the relationship between delay and LOS for signalized intersections.

**Table 1-1. LOS Criteria for Signalized Intersections**

| Level of Service | Interpretation   | Control Delay (sec/vehicle) |
|------------------|--|-----------------------------|
| A                | Progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may contribute to low delay.                                 | ≤10                         |
| B                | Good progression, short cycle lengths, or both. More vehicles stop than with LOS A.  | >10 and ≤20                 |
| C                | Fair progression longer cycle lengths, or both. The number of vehicles stopping is significant, though many still pass through without stopping.   | >20 and ≤35                 |
| D                | Longer delays result from some combination of unfavorable progression, long cycle lengths, or high v/c ratios. Many vehicles stop.   | >35 and ≤55                 |
| E                | High delay values generally indicate poor progression, long cycle lengths, and high v/c ratios. Individual cycle failures are frequent occurrences.  | >55 and ≤80                 |
| F                | This level often occurs with oversaturation when arrival flow rates exceed the capacity of the intersection. Poor progression and long cycle lengths may be major contributing factors to such delays. | >80                         |

### Roundabouts

At roundabout intersections, the operational analysis uses various intersection characteristics (such as traffic volumes and lane geometry) to estimate the roundabout's v/c ratio. The HCM defines the LOS as the average delay per vehicle for the overall intersection. Approach delay detail is also generated. The relationship between delay and LOS for roundabouts is the same as shown in the following table for unsignalized intersections.

## Unsignalized Intersections

For unsignalized stop sign-controlled intersections, operations are defined by the average control delay per vehicle (measured in seconds) for each stop-controlled movement. The method incorporates delay associated with deceleration, acceleration, stopping, and moving up in the queue. For two-way stop-controlled (TWSC) intersections, LOS is reported for the approach with the highest average delay/vehicle. **Table 1-2** summarizes the relationship between delay and LOS for unsignalized intersections.

**Table 1-2. LOS Criteria for Unsignalized Intersections**

| Level of Service | Interpretation   | Control Delay (sec/vehicle) |
|------------------|--|-----------------------------|
| a                | Little or no delay   | $0 \leq 10$                 |
| b                | Short traffic delays   | $>10 \leq 15$               |
| c                | Average traffic delays   | $>15 \leq 25$               |
| d                | Long traffic delays  | $>25 \leq 35$               |
| e                | Very long traffic delays   | $>35 \leq 50$               |
| f                | When demand volume exceeds the capacity of the lane, extreme delays will be encountered with queuing that may cause severe congestion affecting other traffic movements in the intersection. This condition usually warrants improving the intersection. | $>50$                       |

## 2 – EXISTING CONDITIONS

### 2.1 Roadway System

Key existing roadways that serve the site include Charter Oak Ranch Road, US 85 (Santa Fe Avenue), and I-25. Initially, access to the site will be to Charter Oak Ranch Road only. A future connection to I-25 near MP 125.7 is also planned.

**Charter Oak Ranch Road** is a two-lane roadway extending through Fort Carson as a frontage road on the west side of I-25, continuing south through the City of Fountain where it crosses US 85 and then curves to the west and runs along the northern boundary of the site. Just outside of Fort Carson Gate 19, Charter Oak Ranch Road turns to the south, ultimately terminating within the project site. Along the northern border of the site, the roadway was recently reconstructed with a 40-foot cross-section, having 12-foot lanes and 8-foot shoulders. Curb and gutter, left-turn deceleration lanes, and a sidewalk along its north side were also added. Its intersection with US 85 was re-constructed as a one-lane roundabout. The roadway is classified as a Collector on the El Paso County 2040 Major Transportation Corridor Plan. The posted speed limit is 35 miles per hour (mph) in the vicinity of the site.

**US 85A (Santa Fe Avenue)** is a state highway nearly 10 miles in length, beginning at Charter Oak Ranch Road 1,800 feet west of I-25, extending through the City of Fountain, and ending at B Street. It is primarily a two-lane roadway. The posted speed limit is 35 mph in the vicinity of the site.

**Interstate 25 (I-25)** is a freeway that extends in a north-south direction throughout Colorado, providing access to/from Colorado Springs to the north and to/from Pueblo to the south. It has two lanes in each direction and a speed limit of 75 mph in the study area.

**Powers Boulevard (SH 21)** is an Expressway that extends north from Mesa Ridge Parkway in the City of Fountain for about 22.5 miles to SH 83 on the north side of Colorado Springs. SH 21 is planned to be extended north from SH 83 to connect with I-25 and is also planned to be extended south from Mesa Ridge Parkway through the City of Fountain, eventually connecting with I-25 near MP 125.7. The planned future connection to I-25 from the site will align with SH 21.

### 2.2 Traffic Volumes

Traffic count data was collected on Tuesday, June 13, 2023, including intersection turning-movement counts (TMC) between the hours of 5:00-8:00 a.m. and 4:00-6:00 p.m., and an average daily count (ADT) on Charter Oak Ranch Road east of Fort Carson Gate 19. The existing traffic volumes are shown in **Figure 2.1**. The traffic count data is included in **Appendix B**.

It should be noted that for the morning peak-period analysis of this report, the peak hour at the I-25/US 85 interchange (6:45-7:45 a.m.) was used, whereas the peak hour of Fort Carson traffic using Gate 19 was shown to be either about an hour earlier or about an hour later based on the TMC and ADT counts, respectively. It is expected that the morning peak period of the proposed Rail Park will coincide with the traditional peak period as exhibited by the I-25/US 85 interchange counts, rather than the atypical peak periods of Fort Carson traffic, as exhibited by the counts west of the interchange.

## 2.3 Traffic Operations

All analyzed intersections are reported to currently operate at LOS B or better during both the AM and PM peak hours. Existing overall intersection LOS and delay results are summarized in **Table 2-1**. Full Synchro analysis reports for existing conditions are included in **Appendix C**.

**Table 2-1. Existing Conditions Traffic Operations Summary**

| Control    | Intersection                                       | LOS/Delay [in seconds/vehicle] (Critical Movement) |                 |
|------------|--|--|-----------------|
|            |  | AM Peak Hour                                       | PM Peak Hour    |
| Signal     | US 85 & I-25 NB Ramps                              | A / 5.6  | A / 5.7         |
| Signal     | US 85 & I-25 SB Ramps                              | B / 16.5   | B / 18.3        |
| Roundabout | Charter Oak Ranch Road & US 85                     | A / 4.3  | A / 5.8         |
| TWSC       | Charter Oak Ranch Road & Fountain Utilities Access | a / 9.5 (NB)                                       | a / 9.5 (NB)    |
| TWSC       | Charter Oak Ranch Road & Essayons Road             | a / 8.2 (WB LT)                                    | a / 8.0 (WB LT) |

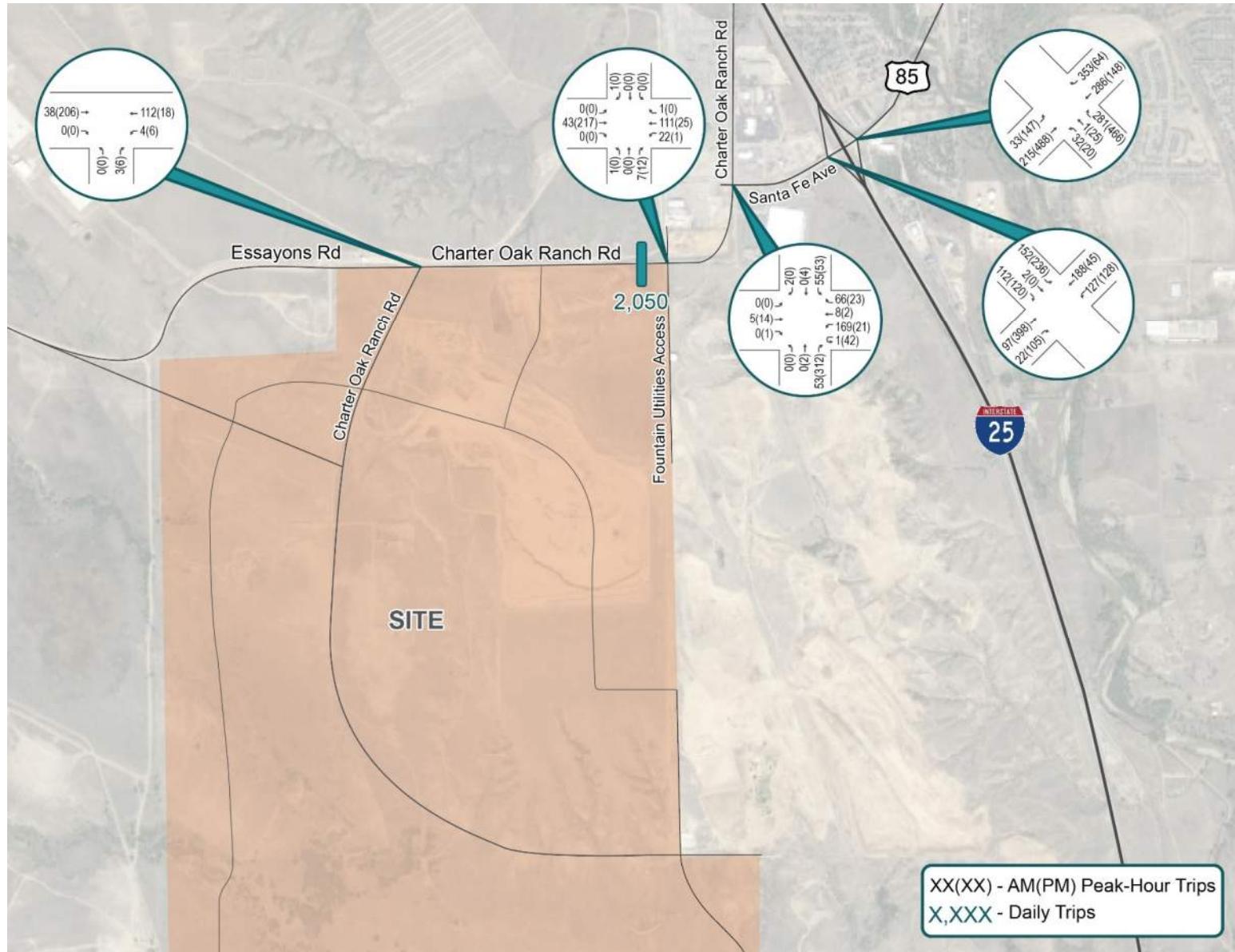


Figure 2-1. 2023 Existing Traffic Volumes

### 3 – PROJECT TRIP GENERATION

The vehicle trips to be generated by the site were estimated using the ITE *Trip Generation Manual*, Eleventh Edition (Institute of Traffic Engineers 2021). Trip generation estimates were developed for Phases 2-4. Because Phase 1 only involves the rail line extension into Fort Carson, it is not expected to generate any vehicle traffic on the roadway network.

The ITE method consists of choosing an appropriate independent variable for each land use, the value of which is multiplied by a weighted average rate or inserted into a regression equation to calculate the trips that can be expected to be generated by the land use. The ITE land uses applied for the trip generation estimate of this site are:

- Industrial Park (130)
- Warehousing (150)
- Mini-Warehouse (151)
- Shopping Plaza (40-150 ksf) (821)

As part of the development of the Sketch Plan, floor area ratios (FAR) were assumed for each land use type in order to calculate an expected building square-footage given the acreage of each parcel. These building square footages were used in the Include where these percentages were obtained for the reduction (Industry standard, manual, code, etc).

#### Rail Trips

Given that this site is being developed as Include where these percentages were obtained for the reduction (Industry standard, manual, code, etc). extension planned to traverse it, a trip reduction has been applied to account for trips that will be made by rail rather than by motor vehicle. A reduction of 15% has been applied to the portions of the site designated for heavy industrial and a reduction of 5% has been applied to the portions of the site designated for light industrial.

#### Pass-by Trips

Given the location of the proposed retail land use, it is expected to primarily serve the employees of the industrial park as well as those entering/exiting Fort Carson. As such, a high pass-by trip percentage (70%) has been assumed for the proposed retail parcel. A pass-by trip is made by a motorist who would already be on the adjacent roadway regardless of the development, but who stops in at the site while passing by. The motorist would then continue on their way to a final destination in the original direction.

The site will generate approximately 6,685 new daily trips, 10,275 new daily trips, and 17,630 new daily trips at the completion of Phase 2, Phase 3, and Phase 4, respectively. Approximately 8-9% of the daily traffic will be generated during the morning peak hour and approximately 9-10% will be generated during the afternoon peak hour, depending on the phase of completion.

Tables 3-1 through 3-3 show the trip generation at each phase of the development.

**Table 3-1. Southern Colorado Rail Park - Trip Generation Estimate (Phases 1-2)**

| Sketch Plan Zone        | Land Use Code | Land Use Description                        | Developable Acres | Units   | Trip Generation Rates   |                   |      |                     |      | Total Trips Generated   |                   |     |                     |     | Pass-by/Rail Trip Reduction | Pass-by/Rail Trips Generated |                   |       |                     |     | Primary/Non-Rail Trips Generated |                   |       |                     |     |     |     |
|-------------------------|---------------|---|-------------------|---------|-------------------------|-------------------|------|---------------------|------|-------------------------|-------------------|-----|---------------------|-----|-----------------------------|------------------------------|-------------------|-------|---------------------|-----|----------------------------------|-------------------|-------|---------------------|-----|-----|-----|
|                         |               |   |                   |         | Average Weekday Traffic | Morning Peak Hour |      | Afternoon Peak Hour |      | Average Weekday Traffic | Morning Peak Hour |     | Afternoon Peak Hour |     |                             | Average Weekday Traffic      | Morning Peak Hour |       | Afternoon Peak Hour |     | Average Weekday Traffic          | Morning Peak Hour |       | Afternoon Peak Hour |     |     |     |
|                         |               |   |                   |         |                         | In                | Out  | In                  | Out  |                         | In                | Out | In                  | Out |                             | In                           | Out               | In    | Out                 | In  | Out                              | In                | Out   |                     |     |     |     |
| <b>PHASES 1-2</b>       |               |   |                   |         |                         |                   |      |                     |      |                         |                   |     |                     |     |                             |                              |                   |       |                     |     |                                  |                   |       |                     |     |     |     |
| 7                       | 130           | Industrial Park                             | 125.20            | 169.28  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 570               | 47  | 11                  | 13  | 45                          | 15%                          | 86                | 7     | 2                   | 2   | 7                                | 485               | 40    | 9                   | 11  | 38  |     |
| 8                       | 130           | Industrial Park                             | 9.80              | 13.25   | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 45                | 4   | 1                   | 1   | 4                           | 15%                          | 7                 | 1     | 0                   | 0   | 1                                | 38                | 3     | 1                   | 1   | 3   |     |
| 9                       | 130           | Industrial Park                             | 39.30             | 53.14   | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 179               | 15  | 3                   | 4   | 14                          | 15%                          | 27                | 2     | 1                   | 1   | 2                                | 152               | 12    | 3                   | 3   | 12  |     |
| 10                      | 130           | Industrial Park                             | 61.10             | 82.61   | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 278               | 23  | 5                   | 6   | 22                          | 15%                          | 42                | 3     | 1                   | 1   | 3                                | 237               | 19    | 5                   | 5   | 19  |     |
| 11                      | 130           | Industrial Park                             | 144.70            | 195.65  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 659               | 54  | 13                  | 15  | 52                          | 15%                          | 99                | 8     | 2                   | 2   | 8                                | 560               | 46    | 11                  | 12  | 44  |     |
| 14                      | ---           | Low Impact Use                              | 100.60            | ---     | ---                     | ---               | ---  | ---                 | ---  | 0                       | 0                 | 0   | 0                   | 0   | 0%                          | 0                            | 0                 | 0     | 0                   | 0   | 0                                | 0                 | 0     | 0                   | 0   |     |     |
| 15                      | 130           | Industrial Park                             | 26.80             | 36.24   | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 122               | 10  | 2                   | 3   | 10                          | 15%                          | 18                | 1     | 0                   | 0   | 1                                | 104               | 8     | 2                   | 2   | 8   |     |
| 16                      | 130           | Industrial Park                             | 32.90             | 44.48   | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 150               | 12  | 3                   | 3   | 12                          | 15%                          | 22                | 2     | 0                   | 0   | 2                                | 127               | 10    | 2                   | 3   | 10  |     |
| 17                      | 130           | Industrial Park                             | 57.90             | 78.29   | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 264               | 22  | 5                   | 6   | 21                          | 15%                          | 40                | 3     | 1                   | 1   | 3                                | 224               | 18    | 4                   | 5   | 18  |     |
| 18                      | 130           | Industrial Park                             | 56.00             | 195.15  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 658               | 54  | 13                  | 15  | 52                          | 5%                           | 33                | 3     | 1                   | 1   | 3                                | 625               | 51    | 12                  | 14  | 49  |     |
| 19                      | 130           | Industrial Park                             | 63.70             | 221.98  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 748               | 61  | 14                  | 17  | 59                          | 5%                           | 37                | 3     | 1                   | 1   | 3                                | 711               | 58    | 14                  | 16  | 56  |     |
| 27                      | 130           | Industrial Park                             | 59.60             | 207.69  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 700               | 57  | 13                  | 16  | 55                          | 5%                           | 35                | 3     | 1                   | 1   | 3                                | 665               | 54    | 13                  | 15  | 52  |     |
| 31                      | 130           | Industrial Park                             | 24.00             | 83.64   | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 282               | 23  | 5                   | 6   | 22                          | 5%                           | 14                | 1     | 0                   | 0   | 1                                | 268               | 22    | 5                   | 6   | 21  |     |
| 32                      | 130           | Industrial Park                             | 18.30             | 63.77   | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 215               | 18  | 4                   | 5   | 17                          | 5%                           | 11                | 1     | 0                   | 0   | 1                                | 204               | 17    | 4                   | 5   | 16  |     |
| 33                      | 130           | Industrial Park                             | 28.60             | 99.67   | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 336               | 27  | 6                   | 7   | 26                          | 5%                           | 17                | 1     | 0                   | 0   | 1                                | 319               | 26    | 6                   | 7   | 25  |     |
| 34                      | 130           | Industrial Park                             | 24.30             | 84.68   | KSF                     | 3.37              | 0.28 | 0.06                | 0.07 | 0.27                    | 285               | 23  | 5                   | 6   | 22                          | 5%                           | 14                | 1     | 0                   | 0   | 1                                | 271               | 22    | 5                   | 6   | 21  |     |
| 39                      | 151           | Mini-Warehouse                              | 20.40             | 106.63  | KSF                     | 1.45              | 0.05 | 0.04                | 0.07 | 0.08                    | 155               | 6   | 4                   | 8   | 8                           | 0%                           | 0                 | 0     | 0                   | 0   | 0                                | 155               | 6     | 4                   | 8   | 8   |     |
| 40                      | 821           | Shopping Plaza (40-150k) - Supermarket - No | 10.90             | 75.97   | KSF                     | 67.52             | 1.07 | 0.66                | 2.54 | 2.65                    | 5129              | 81  | 50                  | 193 | 201                         | 70%                          | 3591              | 46    | 46                  | 138 | 138                              | 1539              | 35    | 4                   | 55  | 63  |     |
| <b>PHASES 1-2 TOTAL</b> |               | Industrial Park (Light/Heavy Industrial)    | 772               | 1629.52 | KSF                     |                   |      |                     |      |                         | 10,776            | 536 | 159                 | 323 | 642                         |                              |                   | 4,092 | 87                  | 56  | 149                              | 177               | 6,684 | 449                 | 104 | 173 | 464 |

**Table 3-2. Southern Colorado Rail Park - Trip Generation Estimate (Phases 1-3)**

| Sketch Plan Zone        | Land Use Code | Land Use Description                        | Developable Acres | Units   | Trip Generation Rates   |                   |                     |                         |                   | Total Trips Generated   |                   |                     |                         |                   | Pass-by/Rail Trip Reduction | Pass-by/Rail Trips Generated |                   |                     |                         |                   | Primary/Non-Rail Trips Generated |                         |                   |                     |     |     |     |
|-------------------------|---------------|---|-------------------|---------|-------------------------|-------------------|---------------------|-------------------------|-------------------|-------------------------|-------------------|---------------------|-------------------------|-------------------|-----------------------------|------------------------------|-------------------|---------------------|-------------------------|-------------------|----------------------------------|-------------------------|-------------------|---------------------|-----|-----|-----|
|                         |               |   |                   |         | Average Weekday Traffic | Morning Peak Hour | Afternoon Peak Hour | Average Weekday Traffic | Morning Peak Hour | Average Weekday Traffic | Morning Peak Hour | Afternoon Peak Hour | Average Weekday Traffic | Morning Peak Hour | Afternoon Peak Hour         | Average Weekday Traffic      | Morning Peak Hour | Afternoon Peak Hour | Average Weekday Traffic | Morning Peak Hour | Afternoon Peak Hour              | Average Weekday Traffic | Morning Peak Hour | Afternoon Peak Hour |     |     |     |
|                         |               |   |                   |         | In                      | Out               | In                  | Out                     | In                | In                      | Out               | In                  | Out                     | In                | Out                         | In                           | Out               | In                  | Out                     | In                | Out                              | In                      | Out               | In                  | Out |     |     |
| <b>PHASES 1-3</b>       |               |   |                   |         |                         |                   |                     |                         |                   |                         |                   |                     |                         |                   |                             |                              |                   |                     |                         |                   |                                  |                         |                   |                     |     |     |     |
| 1                       | 130           | Industrial Park                             | 93.70             | 126.69  | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 427               | 35                  | 8                       | 9                 | 34                          | 15%                          | 64                | 5                   | 1                       | 1                 | 5                                | 363                     | 30                | 7                   | 8   | 29  |     |
| 2                       | 130           | Industrial Park                             | 47.00             | 63.55   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 214               | 18                  | 4                       | 5                 | 17                          | 15%                          | 32                | 3                   | 1                       | 1                 | 3                                | 182                     | 15                | 3                   | 4   | 14  |     |
| 3                       | 130           | Industrial Park                             | 124.20            | 167.93  | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 566               | 46                  | 11                      | 13                | 45                          | 15%                          | 85                | 7                   | 2                       | 2                 | 7                                | 481                     | 39                | 9                   | 11  | 38  |     |
| 4                       | 130           | Industrial Park                             | 186.50            | 252.17  | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 850               | 69                  | 16                      | 19                | 67                          | 15%                          | 127               | 10                  | 2                       | 3                 | 10                               | 722                     | 59                | 14                  | 16  | 57  |     |
| 5                       | 130           | Industrial Park                             | 164.60            | 222.56  | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 750               | 61                  | 14                      | 17                | 59                          | 15%                          | 113               | 9                   | 2                       | 2                 | 9                                | 638                     | 52                | 12                  | 14  | 50  |     |
| 6                       | 130           | Industrial Park                             | 181.00            | 244.73  | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 825               | 67                  | 16                      | 18                | 65                          | 15%                          | 124               | 10                  | 2                       | 3                 | 10                               | 701                     | 57                | 13                  | 16  | 55  |     |
| 7                       | 130           | Industrial Park                             | 125.20            | 169.28  | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 570               | 47                  | 11                      | 13                | 45                          | 15%                          | 86                | 7                   | 2                       | 2                 | 7                                | 485                     | 40                | 9                   | 11  | 38  |     |
| 8                       | 130           | Industrial Park                             | 9.80              | 13.25   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 45                | 4                   | 1                       | 1                 | 4                           | 15%                          | 7                 | 1                   | 0                       | 0                 | 1                                | 38                      | 3                 | 1                   | 1   | 3   |     |
| 9                       | 130           | Industrial Park                             | 39.30             | 53.14   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 179               | 15                  | 3                       | 4                 | 14                          | 15%                          | 27                | 2                   | 1                       | 1                 | 2                                | 152                     | 12                | 3                   | 3   | 12  |     |
| 10                      | 130           | Industrial Park                             | 61.10             | 82.61   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 278               | 23                  | 5                       | 6                 | 22                          | 15%                          | 42                | 3                   | 1                       | 1                 | 3                                | 237                     | 19                | 5                   | 5   | 19  |     |
| 11                      | 130           | Industrial Park                             | 144.70            | 195.65  | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 659               | 54                  | 13                      | 15                | 52                          | 15%                          | 99                | 8                   | 2                       | 2                 | 8                                | 560                     | 46                | 11                  | 12  | 44  |     |
| 12                      | 130           | Industrial Park                             | 74.10             | 100.19  | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 338               | 28                  | 6                       | 7                 | 27                          | 15%                          | 51                | 4                   | 1                       | 1                 | 4                                | 287                     | 23                | 6                   | 6   | 23  |     |
| 13                      | 130           | Industrial Park                             | 56.50             | 76.39   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 257               | 21                  | 5                       | 6                 | 20                          | 15%                          | 39                | 3                   | 1                       | 1                 | 3                                | 219                     | 18                | 4                   | 5   | 17  |     |
| 14                      | ---           | Low Impact Use                              | 100.60            | ---     | ---                     | ---               | ---                 | ---                     | ---               | 0                       | 0                 | 0                   | 0                       | 0                 | 0%                          | 0                            | 0                 | 0                   | 0                       | 0                 | 0                                | 0                       | 0                 | 0                   | 0   |     |     |
| 15                      | 130           | Industrial Park                             | 26.80             | 36.24   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 122               | 10                  | 2                       | 3                 | 10                          | 15%                          | 18                | 1                   | 0                       | 0                 | 1                                | 104                     | 8                 | 2                   | 2   | 8   |     |
| 16                      | 130           | Industrial Park                             | 32.90             | 44.48   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 150               | 12                  | 3                       | 3                 | 12                          | 15%                          | 22                | 2                   | 0                       | 0                 | 2                                | 127                     | 10                | 2                   | 3   | 10  |     |
| 17                      | 130           | Industrial Park                             | 57.90             | 78.29   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 264               | 22                  | 5                       | 6                 | 21                          | 15%                          | 40                | 3                   | 1                       | 1                 | 3                                | 224                     | 18                | 4                   | 5   | 18  |     |
| 18                      | 130           | Industrial Park                             | 56.00             | 195.15  | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 658               | 54                  | 13                      | 15                | 52                          | 5%                           | 33                | 3                   | 1                       | 1                 | 3                                | 625                     | 51                | 12                  | 14  | 49  |     |
| 19                      | 130           | Industrial Park                             | 63.70             | 221.98  | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 748               | 61                  | 14                      | 17                | 59                          | 5%                           | 37                | 3                   | 1                       | 1                 | 3                                | 711                     | 58                | 14                  | 16  | 56  |     |
| 27                      | 130           | Industrial Park                             | 59.60             | 207.69  | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 700               | 57                  | 13                      | 16                | 55                          | 5%                           | 35                | 3                   | 1                       | 1                 | 3                                | 665                     | 54                | 13                  | 15  | 52  |     |
| 31                      | 130           | Industrial Park                             | 24.00             | 83.64   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 282               | 23                  | 5                       | 6                 | 22                          | 5%                           | 14                | 1                   | 0                       | 0                 | 1                                | 268                     | 22                | 5                   | 6   | 21  |     |
| 32                      | 130           | Industrial Park                             | 18.30             | 63.77   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 215               | 18                  | 4                       | 5                 | 17                          | 5%                           | 11                | 1                   | 0                       | 0                 | 1                                | 204                     | 17                | 4                   | 5   | 16  |     |
| 33                      | 130           | Industrial Park                             | 28.60             | 99.67   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 336               | 27                  | 6                       | 7                 | 26                          | 5%                           | 17                | 1                   | 0                       | 0                 | 1                                | 319                     | 26                | 6                   | 7   | 25  |     |
| 34                      | 130           | Industrial Park                             | 24.30             | 84.68   | KSF                     | 3.37              | 0.28                | 0.06                    | 0.07              | 0.27                    | 285               | 23                  | 5                       | 6                 | 22                          | 5%                           | 14                | 1                   | 0                       | 0                 | 1                                | 271                     | 22                | 5                   | 6   | 21  |     |
| 39                      | 151           | Mini-Warehouse                              | 20.40             | 106.63  | KSF                     | 1.45              | 0.05                | 0.04                    | 0.07              | 0.08                    | 155               | 6                   | 4                       | 8                 | 8                           | 0%                           | 0                 | 0                   | 0                       | 0                 | 0                                | 155                     | 6                 | 4                   | 8   | 8   |     |
| 40                      | 821           | Shopping Plaza (40-150k) - Supermarket - No | 10.90             | 75.97   | KSF                     | 67.52             | 1.07                | 0.66                    | 2.54              | 2.65                    | 5129              | 81                  | 50                      | 193               | 201                         | 70%                          | 3591              | 46                  | 46                      | 138               | 138                              | 1539                    | 35                | 4                   | 55  | 63  |     |
| <b>PHASES 1-3 TOTAL</b> |               | Industrial Park (Light/Heavy Industrial)    | 1700              | 2883.73 | KSF                     |                   |                     |                         |                   |                         | 15,002            | 881                 | 240                     | 416               | 974                         |                              |                   | 4,726               | 139                     | 68                | 163                              | 227                     | 10,276            | 743                 | 172 | 253 | 747 |

Table 3-3. Southern Colorado Rail Park - Trip Generation Estimate (Phases 1-4)

| Sketch Plan Zone                     | Land Use Code | Land Use Description | Developable Acres | Units  | Trip Generation Rates   |                   |      |                     | Total Trips Generated |                         |                   |     |                     |     | Pass-by/Rail Trip Reduction | Pass-by/Rail Trips Generated |                   |    |                     |    |                         | Primary/Non-Rail Trips Generated |     |                     |     |                         |                   |   |                     |  |  |
|--------------------------------------|---------------|----------------------|-------------------|--------|-------------------------|-------------------|------|---------------------|-----------------------|-------------------------|-------------------|-----|---------------------|-----|-----------------------------|------------------------------|-------------------|----|---------------------|----|-------------------------|----------------------------------|-----|---------------------|-----|-------------------------|-------------------|---|---------------------|--|--|
|                                      |               |                      |                   |        | Average Weekday Traffic | Morning Peak Hour |      | Afternoon Peak Hour |                       | Average Weekday Traffic | Morning Peak Hour |     | Afternoon Peak Hour |     |                             | Average Weekday Traffic      | Morning Peak Hour |    | Afternoon Peak Hour |    | Average Weekday Traffic | Morning Peak Hour                |     | Afternoon Peak Hour |     | Average Weekday Traffic | Morning Peak Hour |   | Afternoon Peak Hour |  |  |
|                                      |               |                      |                   |        |                         | In                | Out  | In                  | Out                   |                         | In                | Out | In                  | Out |                             | In                           | Out               | In | Out                 | In | Out                     | In                               | Out | In                  | Out | In                      | Out               |   |                     |  |  |
| <b>PROJECT BUILDOUT (PHASES 1-4)</b> |               |                      |                   |        |                         |                   |      |                     |                       |                         |                   |     |                     |     |                             |                              |                   |    |                     |    |                         |                                  |     |                     |     |                         |                   |   |                     |  |  |
| 1                                    | 130           | Industrial Park      | 93.70             | 126.69 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 427               | 35  | 8                   | 9   | 34                          | 15%                          | 64                | 5  | 1                   | 1  | 5                       | 363                              | 30  | 7                   | 8   | 29                      |                   |   |                     |  |  |
| 2                                    | 130           | Industrial Park      | 47.00             | 63.55  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 214               | 18  | 4                   | 5   | 17                          | 15%                          | 32                | 3  | 1                   | 1  | 3                       | 182                              | 15  | 3                   | 4   | 14                      |                   |   |                     |  |  |
| 3                                    | 130           | Industrial Park      | 124.20            | 167.93 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 566               | 46  | 11                  | 13  | 45                          | 15%                          | 85                | 7  | 2                   | 2  | 7                       | 481                              | 39  | 9                   | 11  | 38                      |                   |   |                     |  |  |
| 4                                    | 130           | Industrial Park      | 186.50            | 252.17 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 850               | 69  | 16                  | 19  | 67                          | 15%                          | 127               | 10 | 2                   | 3  | 10                      | 722                              | 59  | 14                  | 16  | 57                      |                   |   |                     |  |  |
| 5                                    | 130           | Industrial Park      | 164.60            | 222.56 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 750               | 61  | 14                  | 17  | 59                          | 15%                          | 113               | 9  | 2                   | 2  | 9                       | 638                              | 52  | 12                  | 14  | 50                      |                   |   |                     |  |  |
| 6                                    | 130           | Industrial Park      | 181.00            | 244.73 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 825               | 67  | 16                  | 18  | 65                          | 15%                          | 124               | 10 | 2                   | 3  | 10                      | 701                              | 57  | 13                  | 16  | 55                      |                   |   |                     |  |  |
| 7                                    | 130           | Industrial Park      | 125.20            | 169.28 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 570               | 47  | 11                  | 13  | 45                          | 15%                          | 86                | 7  | 2                   | 2  | 7                       | 485                              | 40  | 9                   | 11  | 38                      |                   |   |                     |  |  |
| 8                                    | 130           | Industrial Park      | 9.80              | 13.25  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 45                | 4   | 1                   | 1   | 4                           | 15%                          | 7                 | 1  | 0                   | 0  | 1                       | 38                               | 3   | 1                   | 1   | 3                       |                   |   |                     |  |  |
| 9                                    | 130           | Industrial Park      | 39.30             | 53.14  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 179               | 15  | 3                   | 4   | 14                          | 15%                          | 27                | 2  | 1                   | 1  | 2                       | 152                              | 12  | 3                   | 3   | 12                      |                   |   |                     |  |  |
| 10                                   | 130           | Industrial Park      | 61.10             | 82.61  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 278               | 23  | 5                   | 6   | 22                          | 15%                          | 42                | 3  | 1                   | 1  | 3                       | 237                              | 19  | 5                   | 5   | 19                      |                   |   |                     |  |  |
| 11                                   | 130           | Industrial Park      | 144.70            | 195.65 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 659               | 54  | 13                  | 15  | 52                          | 15%                          | 99                | 8  | 2                   | 2  | 8                       | 560                              | 46  | 11                  | 12  | 44                      |                   |   |                     |  |  |
| 12                                   | 130           | Industrial Park      | 74.10             | 100.19 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 338               | 28  | 6                   | 7   | 27                          | 15%                          | 51                | 4  | 1                   | 1  | 4                       | 287                              | 23  | 6                   | 6   | 23                      |                   |   |                     |  |  |
| 13                                   | 130           | Industrial Park      | 56.50             | 76.39  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 257               | 21  | 5                   | 6   | 20                          | 15%                          | 39                | 3  | 1                   | 1  | 3                       | 219                              | 18  | 4                   | 5   | 17                      |                   |   |                     |  |  |
| 14                                   | --            | Low Impact Use       | 100.60            | ---    | ---                     | ---               | ---  | ---                 | ---                   | 0                       | 0                 | 0   | 0                   | 0   | 0%                          | 0                            | 0                 | 0  | 0                   | 0  | 0                       | 0                                | 0   | 0                   | 0   | 0                       | 0                 | 0 | 0                   |  |  |
| 15                                   | 130           | Industrial Park      | 26.80             | 36.24  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 122               | 10  | 2                   | 3   | 10                          | 15%                          | 18                | 1  | 0                   | 0  | 1                       | 104                              | 8   | 2                   | 2   | 8                       |                   |   |                     |  |  |
| 16                                   | 130           | Industrial Park      | 32.90             | 44.48  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 150               | 12  | 3                   | 3   | 12                          | 15%                          | 22                | 2  | 0                   | 0  | 2                       | 127                              | 10  | 2                   | 3   | 10                      |                   |   |                     |  |  |
| 17                                   | 130           | Industrial Park      | 57.90             | 78.29  | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 264               | 22  | 5                   | 6   | 21                          | 15%                          | 40                | 3  | 1                   | 1  | 3                       | 224                              | 18  | 4                   | 5   | 18                      |                   |   |                     |  |  |
| 18                                   | 130           | Industrial Park      | 56.00             | 195.15 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 658               | 54  | 13                  | 15  | 52                          | 5%                           | 33                | 3  | 1                   | 1  | 3                       | 625                              | 51  | 12                  | 14  | 49                      |                   |   |                     |  |  |
| 19                                   | 130           | Industrial Park      | 63.70             | 221.98 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 748               | 61  | 14                  | 17  | 59                          | 5%                           | 37                | 3  | 1                   | 1  | 3                       | 711                              | 58  | 14                  | 16  | 56                      |                   |   |                     |  |  |
| 20                                   | 130           | Industrial Park      | 67.20             | 234.18 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 789               | 64  | 15                  | 18  | 62                          | 5%                           | 39                | 3  | 1                   | 1  | 3                       | 750                              | 61  | 14                  | 17  | 59                      |                   |   |                     |  |  |
| 21                                   | 130           | Industrial Park      | 66.40             | 231.39 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 780               | 64  | 15                  | 17  | 61                          | 5%                           | 39                | 3  | 1                   | 1  | 3                       | 741                              | 61  | 14                  | 16  | 58                      |                   |   |                     |  |  |
| 22                                   | 130           | Industrial Park      | 40.80             | 142.18 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 479               | 39  | 9                   | 11  | 38                          | 5%                           | 24                | 2  | 0                   | 1  | 2                       | 455                              | 37  | 9                   | 10  | 36                      |                   |   |                     |  |  |
| 23                                   | 130           | Industrial Park      | 57.00             | 198.63 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 669               | 55  | 13                  | 15  | 53                          | 5%                           | 33                | 3  | 1                   | 1  | 3                       | 636                              | 52  | 12                  | 14  | 50                      |                   |   |                     |  |  |
| 24                                   | 130           | Industrial Park      | 63.00             | 219.54 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 740               | 60  | 14                  | 16  | 58                          | 5%                           | 37                | 3  | 1                   | 1  | 3                       | 703                              | 57  | 13                  | 16  | 55                      |                   |   |                     |  |  |
| 25                                   | 130           | Industrial Park      | 63.60             | 221.63 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 747               | 61  | 14                  | 17  | 59                          | 5%                           | 37                | 3  | 1                   | 1  | 3                       | 710                              | 58  | 14                  | 16  | 56                      |                   |   |                     |  |  |
| 26                                   | 130           | Industrial Park      | 61.60             | 214.66 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 723               | 59  | 14                  | 16  | 57                          | 5%                           | 36                | 3  | 1                   | 1  | 3                       | 687                              | 56  | 13                  | 15  | 54                      |                   |   |                     |  |  |
| 27                                   | 130           | Industrial Park      | 59.60             | 207.69 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 700               | 57  | 13                  | 16  | 55                          | 5%                           | 35                | 3  | 1                   | 1  | 3                       | 665                              | 54  | 13                  | 15  | 52                      |                   |   |                     |  |  |
| 28                                   | 130           | Industrial Park      | 34.80             | 121.27 | KSF                     | 3.37              | 0.28 | 0.06                | 0.07                  | 0.27                    | 409               | 33  | 8                   | 9   | 32                          | 5%                           | 20                | 2  | 0                   | 0  | 2                       | 388                              | 32  | 7                   | 9   | 31                      |                   |   |                     |  |  |
| 29                                   | 130           | Industrial Park      | 63.40             | 220.94 | KSF                     | 3.37              | 0.28 | 0.06                | 0.                    |                         |                   |     |                     |     |                             |                              |                   |    |                     |    |                         |                                  |     |                     |     |                         |                   |   |                     |  |  |

## 4 – TRIP DISTRIBUTION AND ASSIGNMENT

The trip distribution used for the assignment of site-generated traffic was estimated based on the following factors: the location of the site with respect to nearby employment, commercial, and activity centers including Fort Carson, Fountain, Colorado Springs, and Pueblo; the land uses proposed for the site; the proposed access system for the site; and the roadway system serving the site. Through Phase 3, the trip distribution was based on the existing roadway network, with site access via Charter Oak Ranch Road only. For full project buildout, the trip distribution was based on the planned roadway network within and surrounding the site, including the planned connection from the site to I-25, aligning with the planned extension of Powers Boulevard south from Mesa Ridge Parkway to I-25.

**Figure 4-1** shows the trip distribution estimates for the short-term and long-term.

The trips estimated to be generated by Phases 1-2, as well as those estimated to be generated by Phases 1-3, were assigned based upon access via Charter Oak Ranch Road only. For Phases 1-4 (full site buildout), the trips were assigned based on completion of the planned roadway network. The assignment of site-generated traffic volumes on the surrounding roadway network is determined by applying the distribution percentages in **Figure 4-1** to the trip generation estimates shown in **Tables 3-1** through **3-3**. **Figures 4-2** to **4-4** show the trips as assigned for Phases 1-2, Phases 1-3, and full project buildout, respectively.

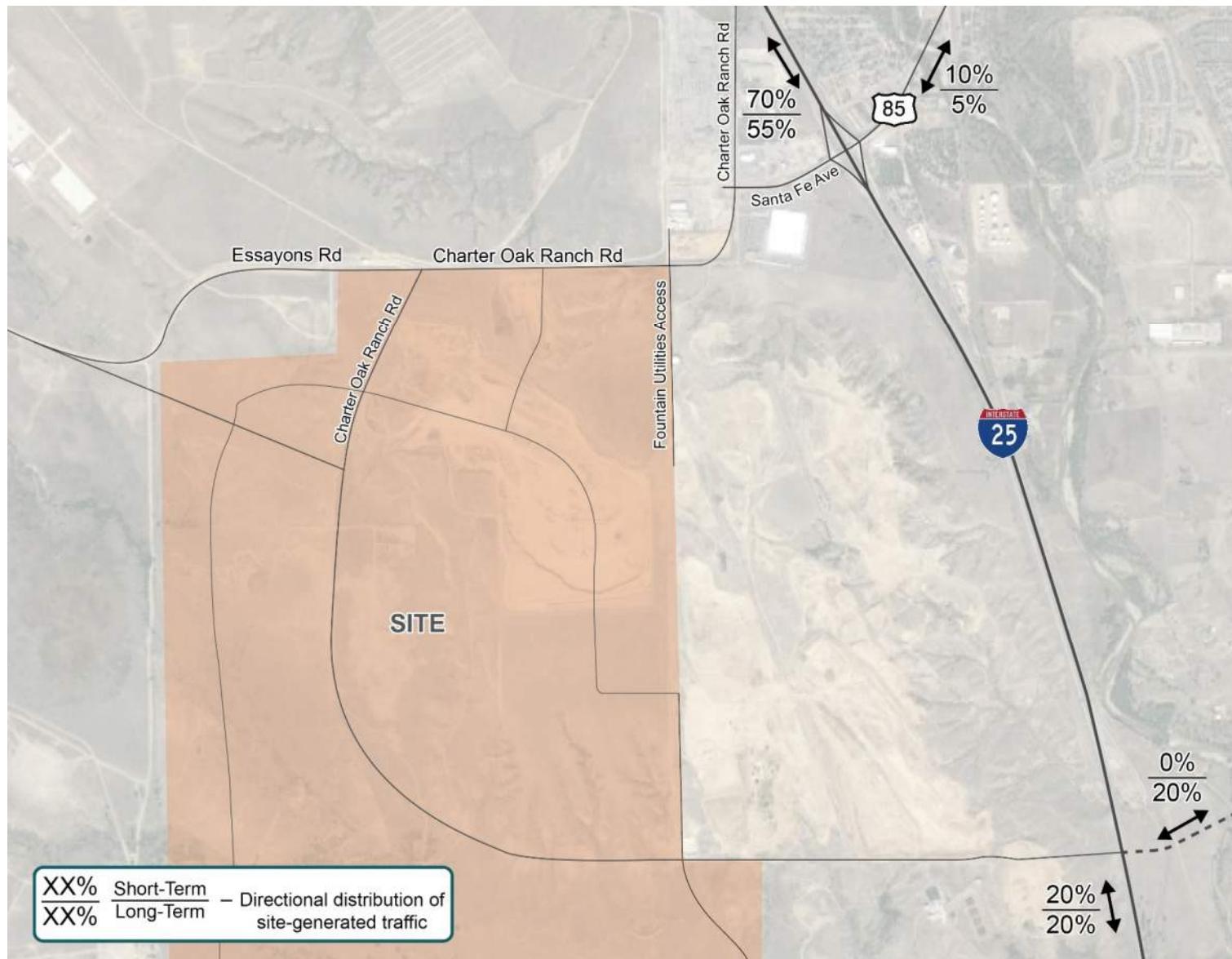


Figure 4-1. Trip Directional Distribution

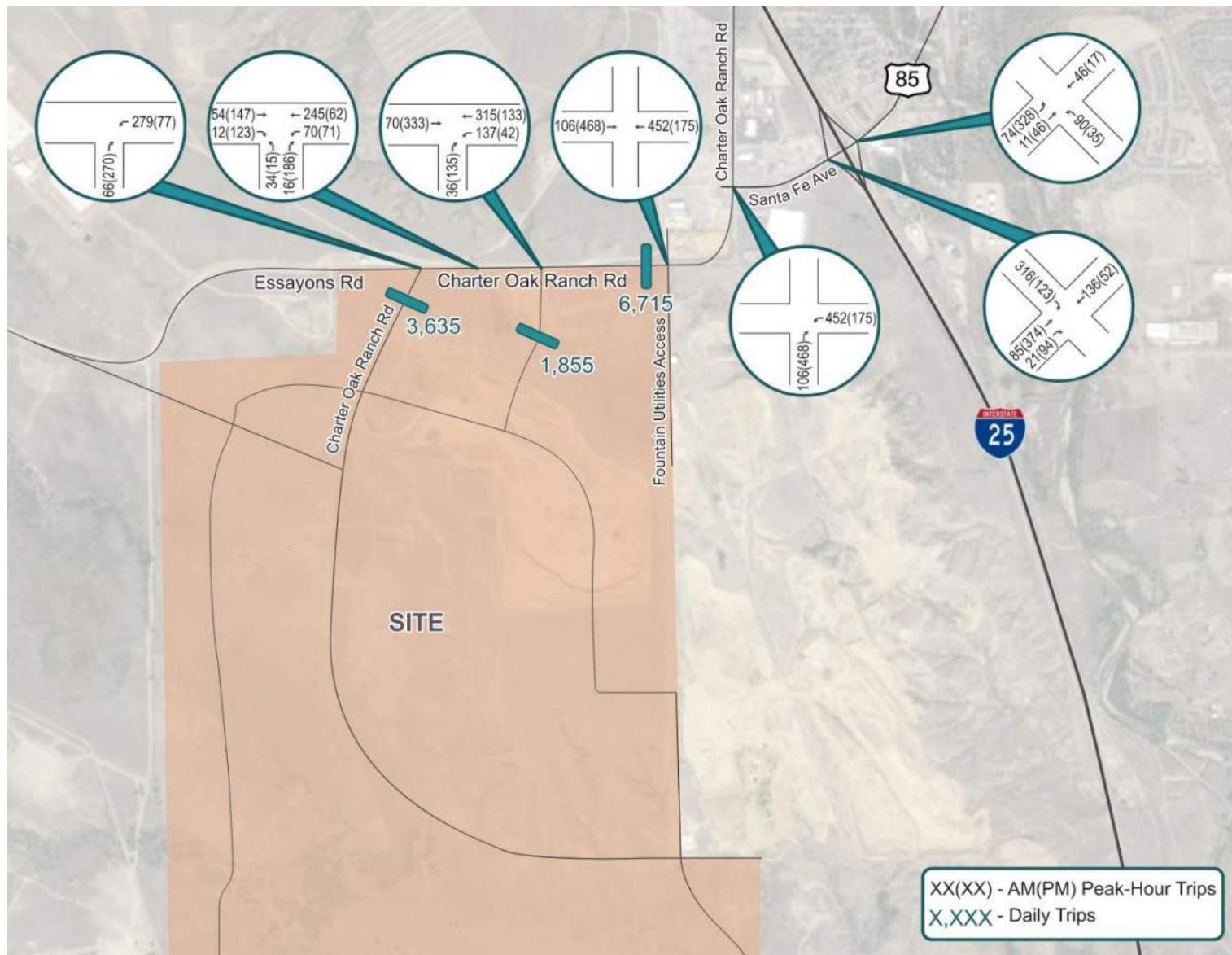


Figure 4-2. Phases 1&2 Site-Generated Traffic Assignment

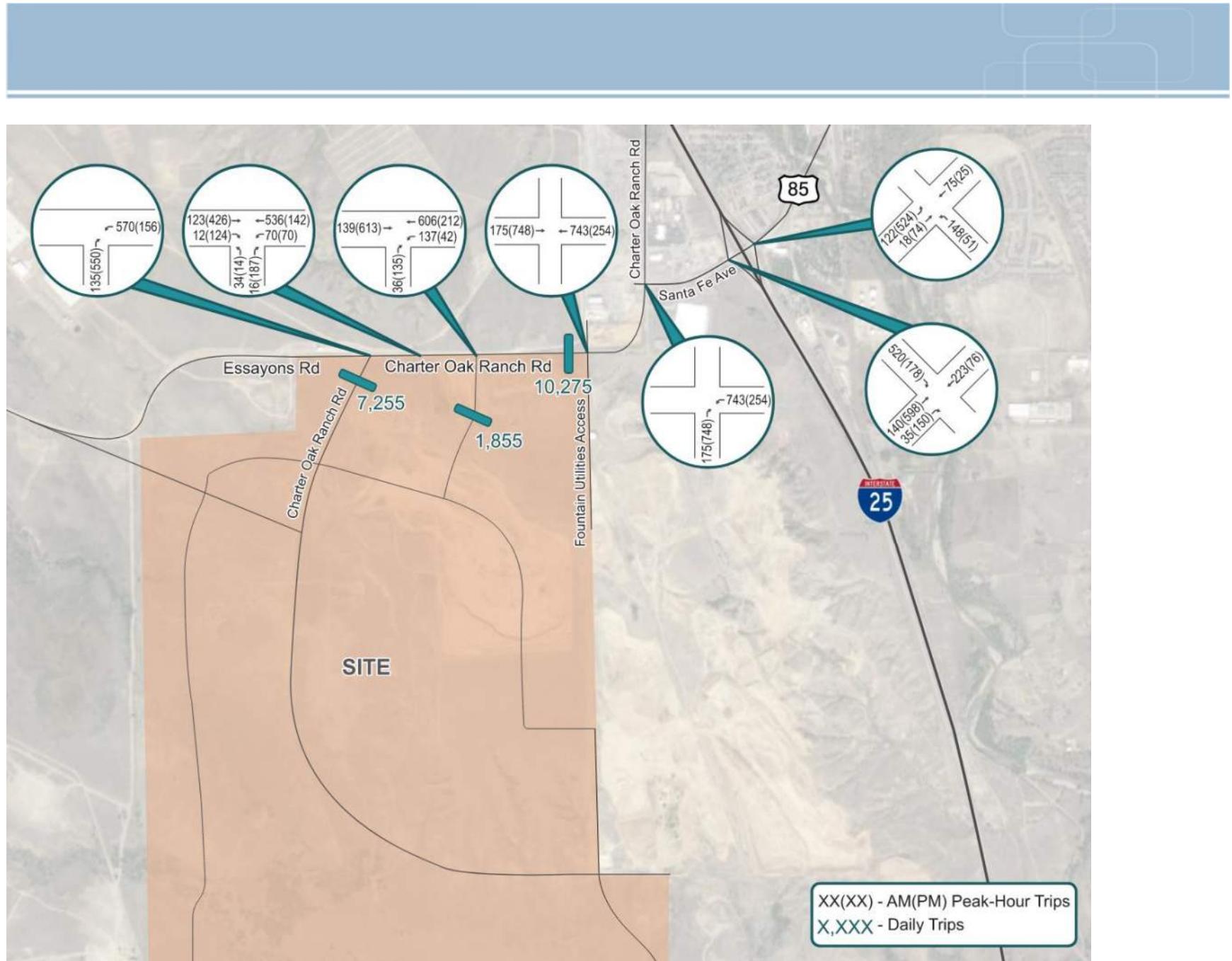


Figure 4-3. Phases 1-3 Site-Generated Traffic Assignment

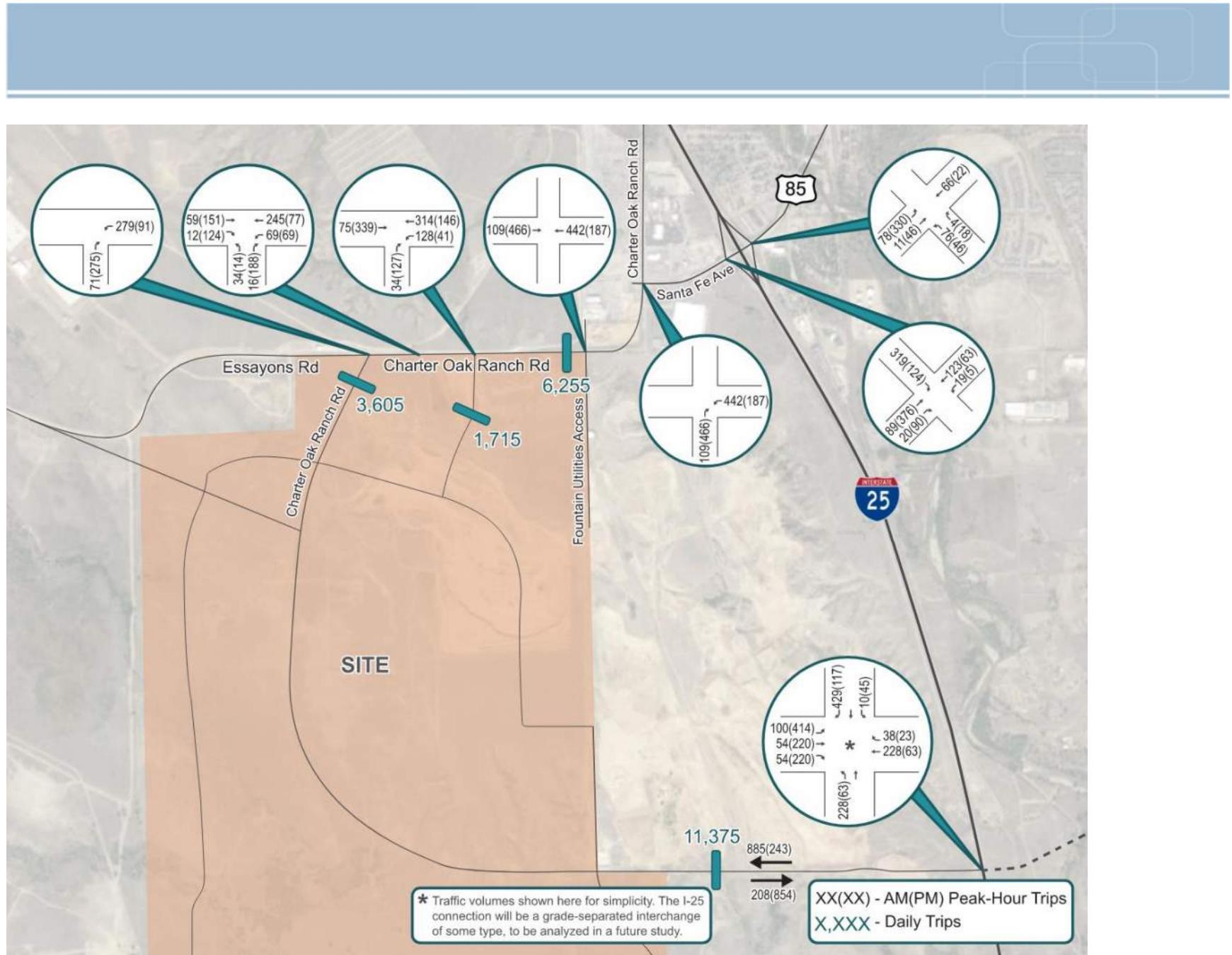


Figure 4-4. Buildout Site-Generated Traffic Assignment

## 5 – FORECAST TRAFFIC VOLUMES

### 5.1 Background Traffic

Background traffic is the traffic that would be on adjacent roads without the trips that will be generated by the proposed development. Background traffic includes through traffic as well as trips generated by developed and currently undeveloped parcels within the project area. Background traffic volumes were estimated for 2035, 2040, and 2045. These are the identified planning horizons for completion of Phases 2-4 of the development.

The background traffic forecasts were developed by applying a combination of growth factors to the existing traffic volumes. The 20-year growth factor for the southern end of US 85 from CDOT's OTIS website of 1.25 was applied to the study area roadway network (1.1%/year). However, the growth in traffic using Gate 19 was determined from a study completed by Fort Carson in January 2023, which showed an anticipated future traffic volume using Gate 19 nearly three times the amount counted in June 2023 (~5%/year assuming linear growth through 2045). The combination of these two annual growth rates was applied to the existing traffic counts to calculate the future background traffic volumes. The 2035, 2040, and 2045 background traffic volumes are shown in **Figures 5-1 to 5-3**.

### 5.2 Total Traffic

Phases 1-2 were evaluated with 2035 background traffic to assess short-term project impacts to the currently existing roadway network. Year 2040 was evaluated utilizing the Year 2040 background traffic and Phases 1-3 site traffic to identify the intermediate-term impacts of the development to the roadway network. Year 2045 was evaluated utilizing the Year 2045 background traffic and full buildout of the site to identify the long-term impacts of the development to the planned future roadway network.

The 2035 total traffic conditions include 2035 background traffic plus development traffic generated by Phases 1-2 of the site. The 2035 Total traffic volumes are shown in **Figure 5-4**.

The 2040 total traffic conditions include 2040 background traffic plus development traffic generated by Phases 1-3 of the site. The 2040 Total traffic volumes are shown in **Figure 5-5**.

The 2045 total traffic conditions include 2045 background traffic plus development traffic generated by full build-out of the site. The 2045 Total traffic volumes are shown in **Figure 5-6**.

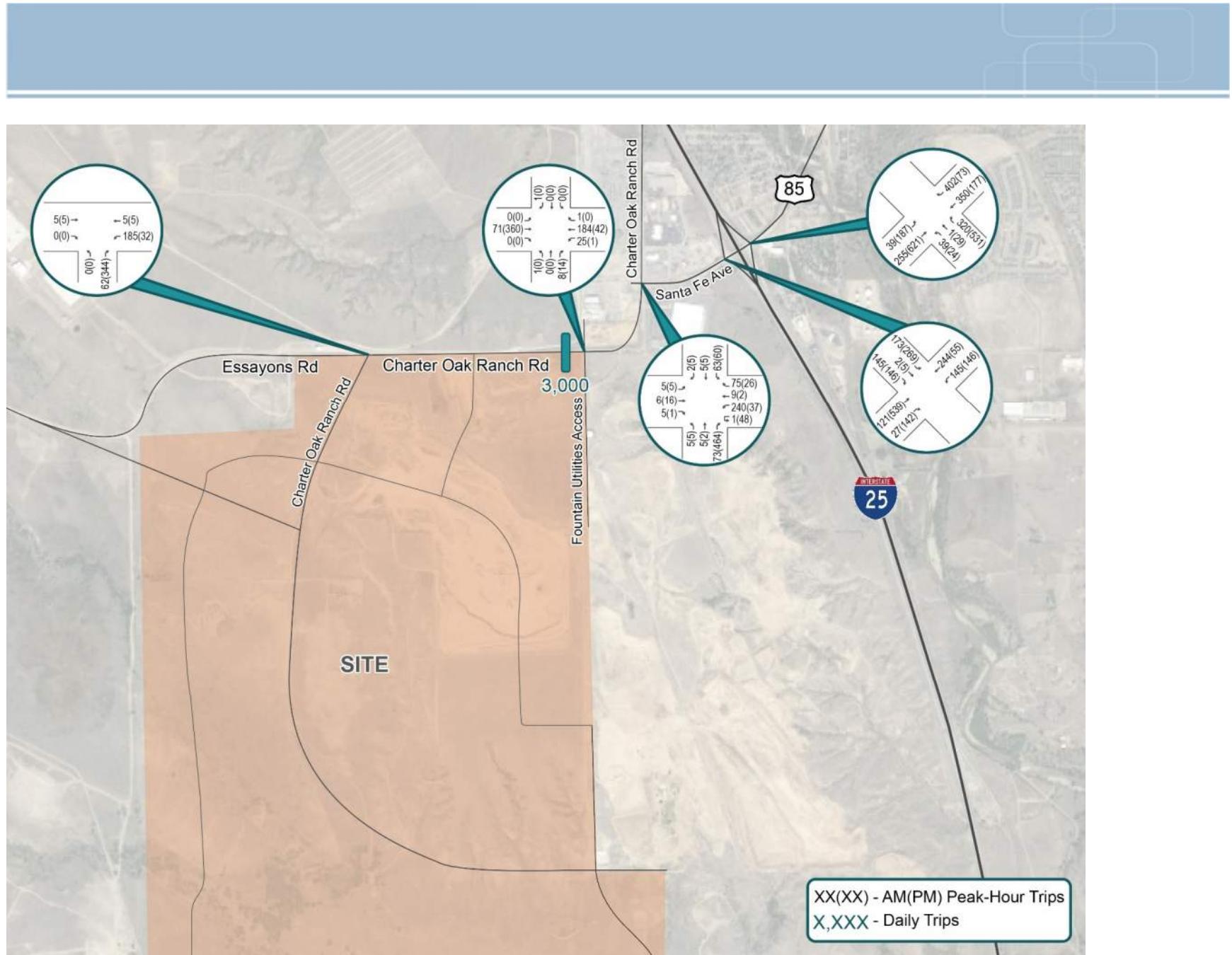


Figure 5-1. 2035 Background Traffic

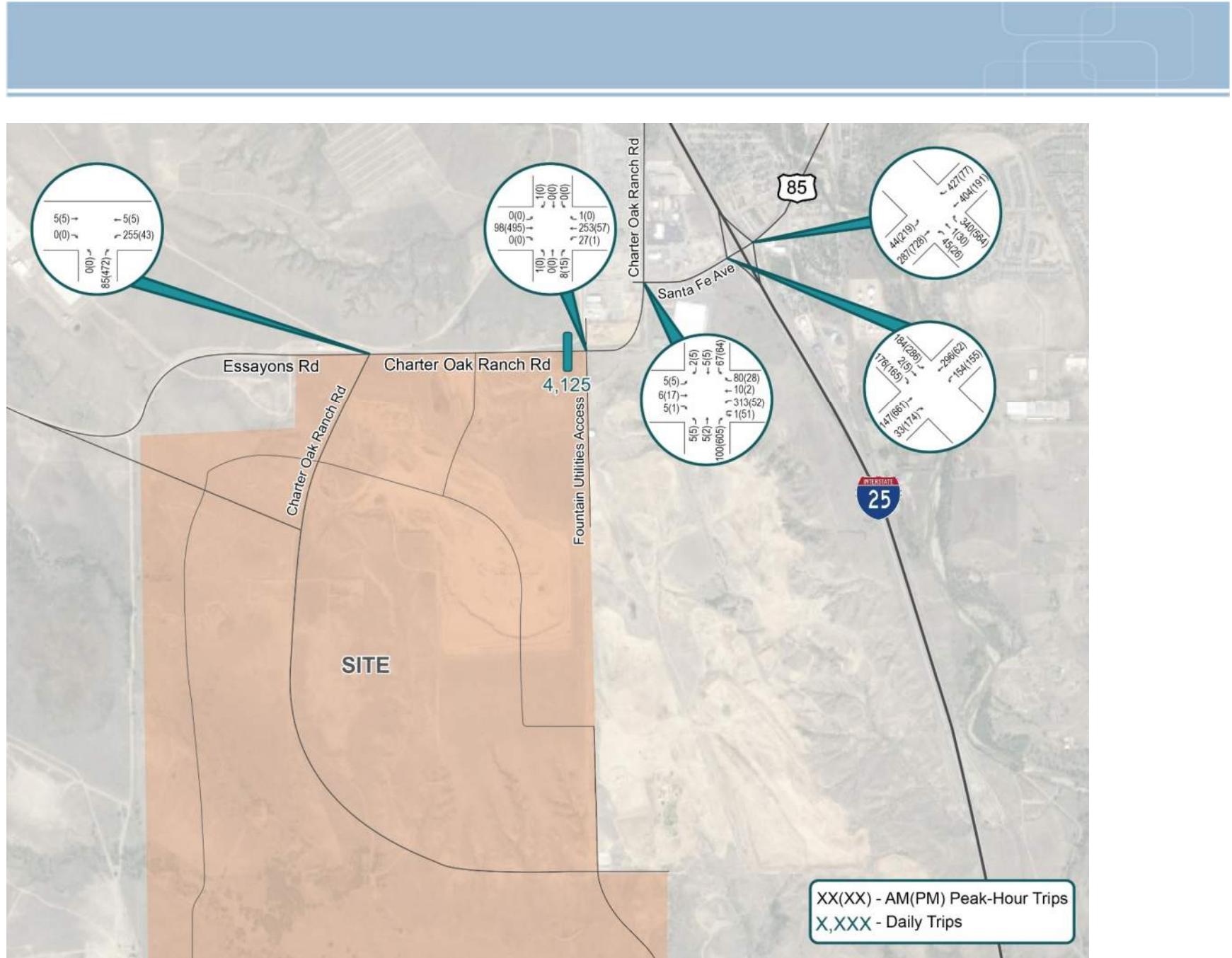


Figure 5-2. 2040 Background Traffic

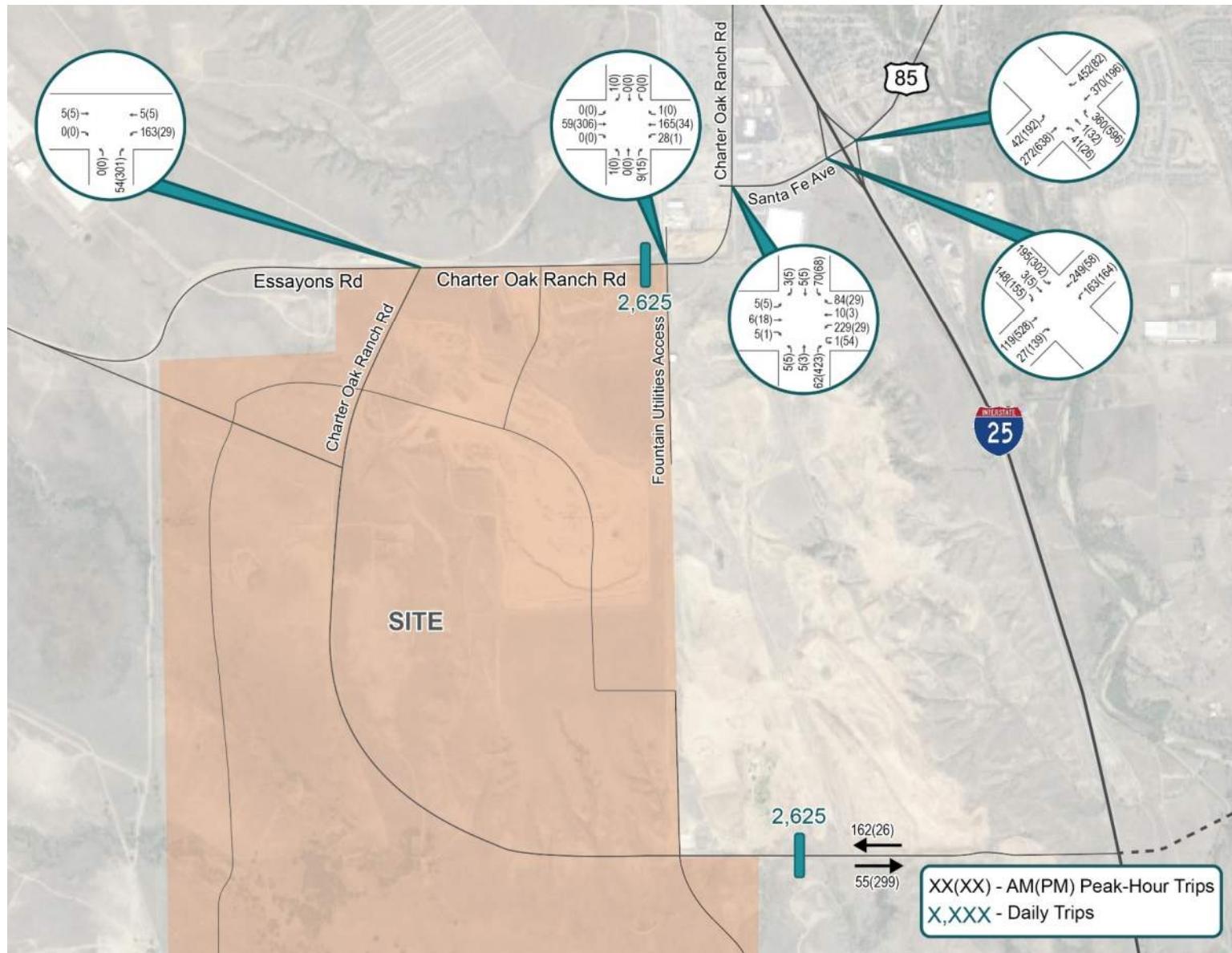


Figure 5-3. 2045 Background Traffic

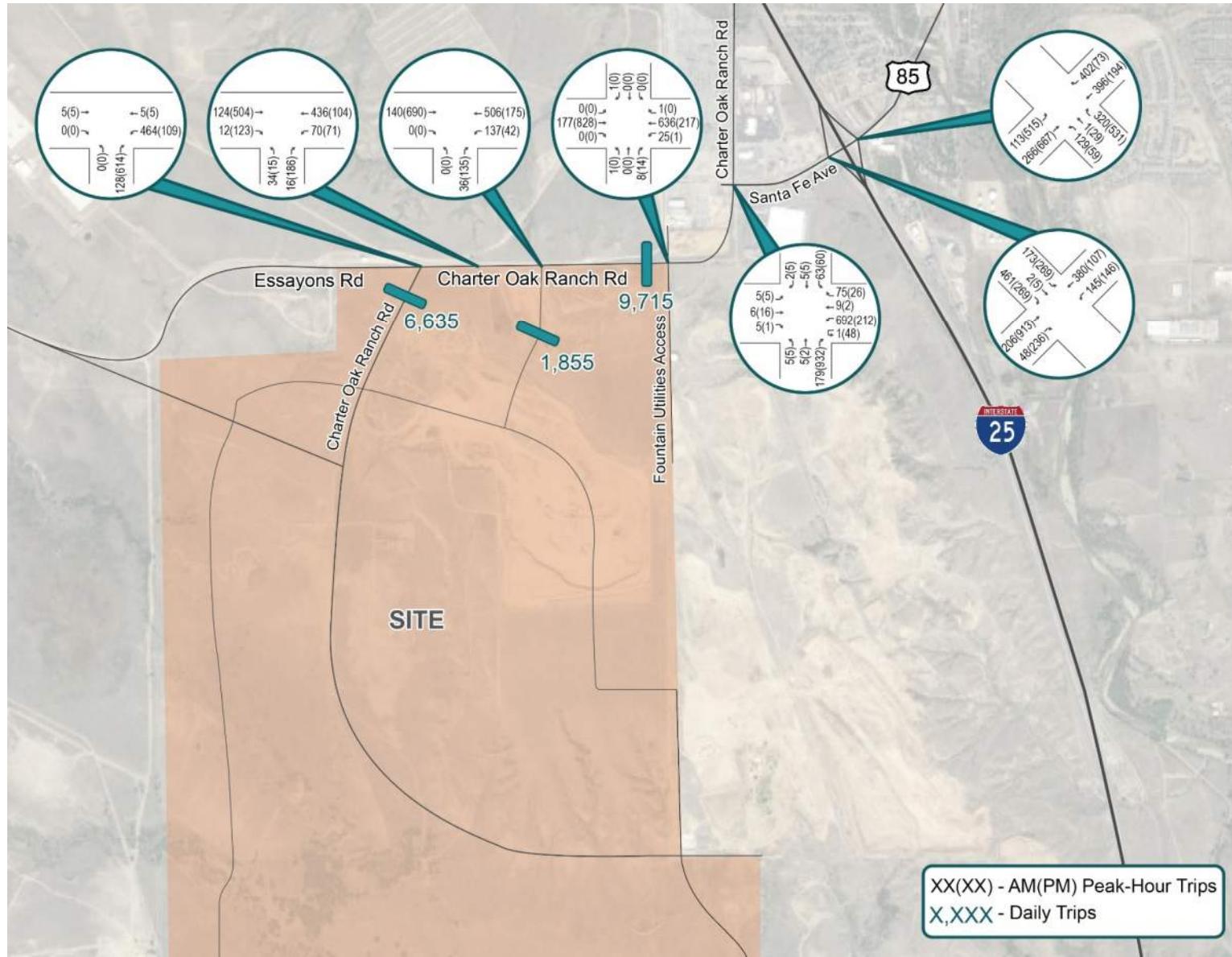


Figure 5-4. 2035 Total Traffic

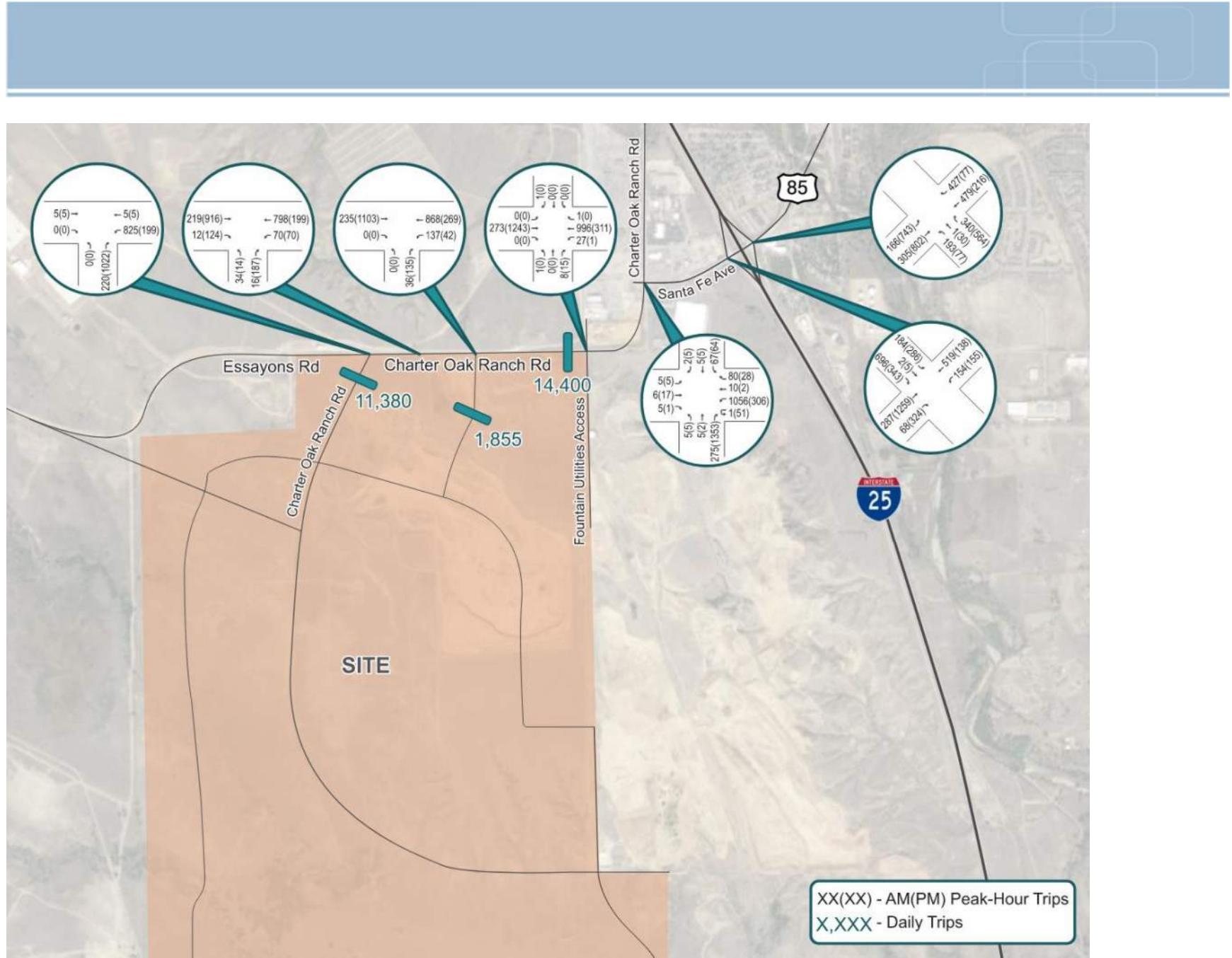


Figure 5-5. 2040 Total Traffic

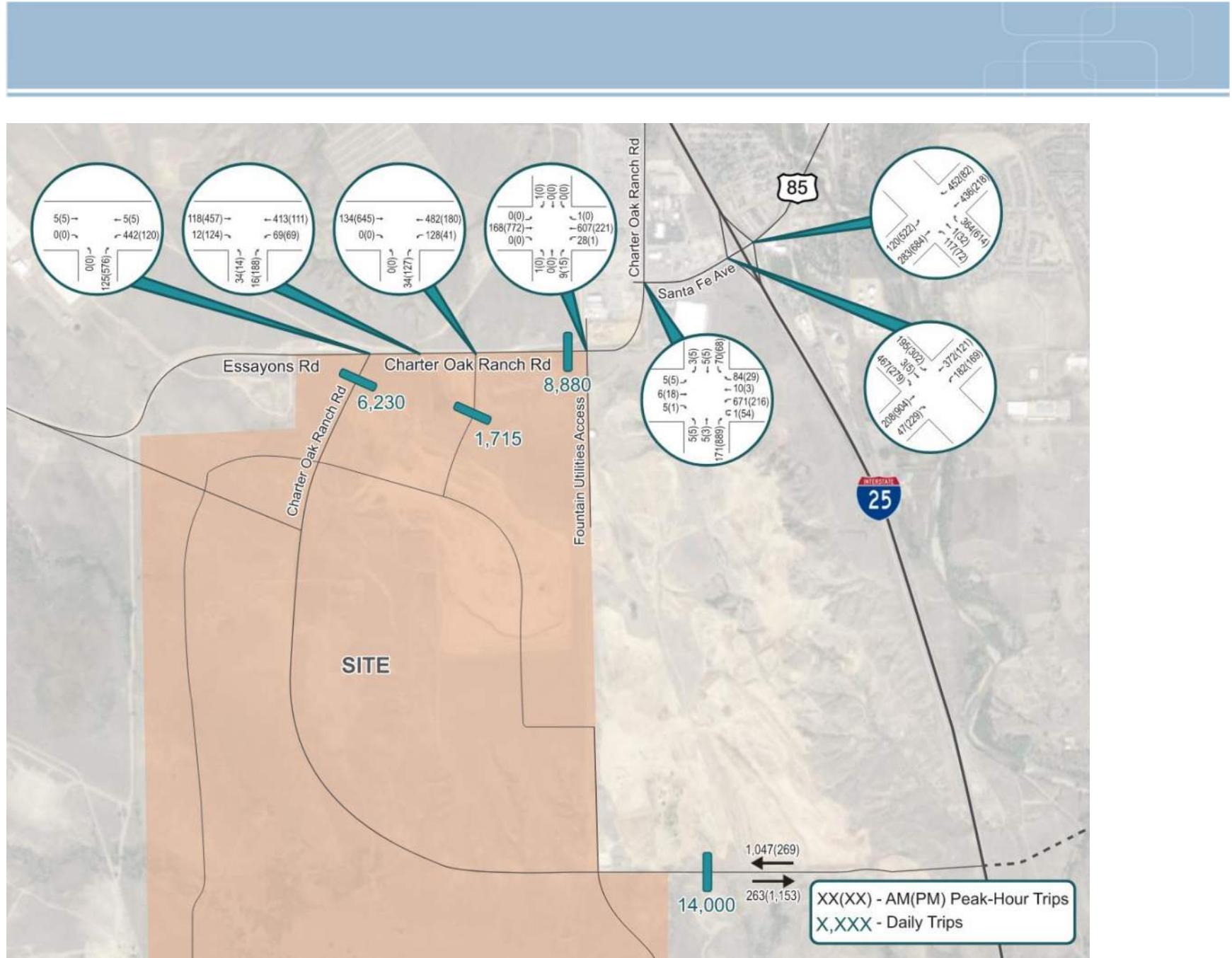


Figure 5-6. 2045 Total Traffic

## 6 – INTERSECTION LOS ANALYSIS

### 6.1 Background Conditions Traffic Operations Analysis

Intersection level of service analysis was completed for future background conditions to determine an operational baseline without the traffic to be generated by the site. Full Synchro analysis reports for the background conditions are included in **Appendix D**.

#### 6.1.1 Traffic Operations Analysis for 2035 Background Traffic

It is anticipated that Phases 1-2 of the site will be completed by 2035. Traffic operations performance was evaluated for 2035 background conditions without site development traffic. Intersection LOS and delay results for 2035 background traffic conditions are summarized in **Table 6-1**.

Based on the analysis of 2035 background traffic, all analyzed intersections are reported to operate at LOS B or better during the AM and PM peak hours.

**Table 6-1. Traffic Operations Summary for 2035 Background Traffic**

| Control    | Intersection                                     | LOS/Delay [in seconds/vehicle] (Critical Movement) |                 |
|------------|--|--|-----------------|
|            |  | AM Peak Hour                                       | PM Peak Hour    |
| Signal     | US 85 & I-25 NB Ramps                            | A / 7.4  | A / 4.7         |
| Signal     | US 85 & I-25 SB Ramps                            | B / 16.5   | B / 19.3        |
| Roundabout | Charter Oak Ranch Road & US 85                   | A / 5.1  | A / 6.8         |
| TWSC       | Charter Oak Ranch Rd & Fountain Utilities Access | a / 9.8 (NB)                                       | b / 10.8 (NB)   |
| TWSC       | Charter Oak Ranch Road & Essayons Road           | a / 8.8 (WB LT)                                    | a / 7.6 (WB LT) |

#### 6.1.2 Traffic Operations Analysis for 2040 Background Traffic

It is anticipated that Phases 1-3 of the site will be completed by 2040. Traffic operations performance was evaluated for 2040 background conditions without site development traffic. Intersection LOS and delay results for 2040 background traffic conditions are summarized in **Table 6-2**.

Based on the analysis of 2040 background traffic, all analyzed intersections are reported to operate at LOS B or better during the AM and PM peak hours.

**Table 6-2. Traffic Operations Summary for 2040 Background Traffic**

| Control    | Intersection                                     | LOS/Delay [in seconds/vehicle] (Critical Movement) |                 |
|------------|--|--|-----------------|
|            |  | AM Peak Hour                                       | PM Peak Hour    |
| Signal     | US 85 & I-25 NB Ramps                            | A / 7.6  | A / 4.6         |
| Signal     | US 85 & I-25 SB Ramps                            | B / 16.0   | B / 19.1        |
| Roundabout | Charter Oak Ranch Road & US 85                   | A / 5.4  | A / 8.2         |
| TWSC       | Charter Oak Ranch Rd & Fountain Utilities Access | b / 10.0 (NB)                                      | b / 11.8 (NB)   |
| TWSC       | Charter Oak Ranch Road & Essayons Road           | a / 9.1 (WB LT)                                    | a / 7.6 (WB LT) |

### 6.1.3 Traffic Operations Analysis for 2045 Background Traffic

It is anticipated that full buildout of the site will be completed by 2045. Traffic operations performance was evaluated for 2045 background conditions without site development traffic. Intersection LOS and delay results for 2045 background traffic conditions are summarized in **Table 6-3**. The analysis of 2045 background traffic includes the planned connection between Fort Carson and I-25 through the site.

Based on the analysis of 2045 background traffic, all analyzed intersections are reported to operate at LOS B or better during the AM and PM peak hours.

**Table 6-3. Traffic Operations Summary for 2045 Background Traffic**

| Control    | Intersection                                     | LOS/Delay [in seconds/vehicle] (Critical Movement) |                 |
|------------|--|--|-----------------|
|            |  | AM Peak Hour                                       | PM Peak Hour    |
| Signal     | US 85 & I-25 NB Ramps                            | A / 7.2  | A / 4.8         |
| Signal     | US 85 & I-25 SB Ramps                            | B / 16.9   | B / 19.6        |
| Roundabout | Charter Oak Ranch Road & US 85                   | A / 4.8  | A / 5.9         |
| TWSC       | Charter Oak Ranch Rd & Fountain Utilities Access | a / 9.5 (NB)                                       | b / 10.1 (NB)   |
| TWSC       | Charter Oak Ranch Road & Essayons Road           | a / 8.7 (WB LT)                                    | a / 7.6 (WB LT) |

### 6.2 Background Plus Site Conditions Traffic Operations Analysis

Intersection level of service analysis was completed for future total traffic conditions to determine the impacts of the traffic to be generated by the site. Full Synchro analysis reports for the total traffic conditions are included in **Appendix E**.

#### 6.2.1 Traffic Operations Analysis for 2035 Total Traffic

The 2035 Total intersection LOS and delay results are summarized in **Table 6-4**. The analysis shows that all analyzed intersections are reported to operate at LOS D or better during the AM and PM peak hours.

**Table 6-4. Traffic Operations Summary for 2035 Total Traffic**

| Control    | Intersection                                     | LOS/Delay [in seconds/vehicle] (Critical Movement) |                  |
|------------|--|--|------------------|
|            |  | AM Peak Hour                                       | PM Peak Hour     |
| Signal     | US 85 & I-25 NB Ramps                            | B / 14.0   | A / 6.7          |
| Signal     | US 85 & I-25 SB Ramps                            | B / 15.3   | B / 19.8         |
| Roundabout | Charter Oak Ranch Road & US 85                   | B / 10.9   | D / 25.3         |
| TWSC       | Charter Oak Ranch Rd & Fountain Utilities Access | b / 13.7 (SB)                                      | c / 17.3 (NB)    |
| TWSC       | Charter Oak Ranch Road & retail access           | c / 17.7 (NB LT)                                   | c / 18.5 (NB LT) |
| TWSC       | Charter Oak Ranch Road & site access             | a / 9.3 (NB)                                       | c / 21.2 (NB)    |
| TWSC       | Charter Oak Ranch Road & Essayons Road           | b / 10.9 (WB LT)                                   | a / 7.8 (WB LT)  |

## 6.2.2 Traffic Operations Analysis for 2040 Total Traffic

The 2040 Total intersection LOS and delay results are summarized in **Table 6-5**. The analysis shows that during the PM peak hour, the roundabout at Charter Oak Ranch Road/US 85 is projected to operate at LOS F due to the NB approach being over capacity. Additionally, the stop-controlled approaches to Charter Oak Ranch Road at the site accesses are project to operate at LOS E during the PM peak hour.

**Table 6-5. Traffic Operations Summary for 2040 Total Traffic**

| Control    | Intersection                                     | LOS/Delay [in seconds/vehicle] (Critical Movement) |                  |
|------------|--|--|------------------|
|            |  | AM Peak Hour                                       | PM Peak Hour     |
| Signal     | US 85 & I-25 NB Ramps                            | B / 16.4   | A / 9.9          |
| Signal     | US 85 & I-25 SB Ramps                            | B / 15.0   | C / 21.8         |
| Roundabout | Charter Oak Ranch Road & US 85                   | D / 27.2   | F / 103.2        |
| TWSC       | Charter Oak Ranch Rd & Fountain Utilities Access | c / 18.6 (SB)                                      | d / 26.2 (NB)    |
| TWSC       | Charter Oak Ranch Road & retail access           | d / 30.4 (NB LT)                                   | e / 39.8 (NB RT) |
| TWSC       | Charter Oak Ranch Road & site access             | a / 9.8 (NB)                                       | e / 46.3 (NB)    |
| TWSC       | Charter Oak Ranch Road & Essayons Road           | c / 17.9 (WB LT)                                   | a / 8.0 (WB LT)  |

## 6.2.3 Traffic Operations Analysis for 2045 Total Traffic

Intersection LOS and delay results for 2045 total traffic conditions are summarized in **Table 6-6**. The analysis shows that for 2045 total traffic conditions, all analyzed intersections are reported to operate at LOS C or better during the AM and PM peak hours.

**Table 6-6. Traffic Operations Summary for 2045 Total Traffic**

| Control    | Intersection                                     | LOS/Delay [in seconds/vehicle] (Critical Movement) |                  |
|------------|--|--|------------------|
|            |  | AM Peak Hour                                       | PM Peak Hour     |
| Signal     | US 85 & I-25 NB Ramps                            | B / 12.7   | A / 6.9          |
| Signal     | US 85 & I-25 SB Ramps                            | B / 15.6   | B / 19.3         |
| Roundabout | Charter Oak Ranch Road & US 85                   | A / 9.0  | B / 14.4         |
| TWSC       | Charter Oak Ranch Rd & Fountain Utilities Access | b / 12.5 (SB)                                      | b / 14.8 (NB)    |
| TWSC       | Charter Oak Ranch Road & retail access           | c / 15.4 (NB LT)                                   | c / 15.6 (NB LT) |
| TWSC       | Charter Oak Ranch Road & site access             | a / 9.1 (NB)                                       | c / 16.3 (NB)    |
| TWSC       | Charter Oak Ranch Road & Essayons Road           | b / 10.2 (WB LT)                                   | a / 7.8 (WB LT)  |

## 7 – RECOMMENDATIONS

### 7.1 Future Connection to I-25

Based on the results of this study that show poor intersection levels of service along Charter Oak Ranch Road at buildout of Phase 3, it is likely that the planned future connection to I-25 will be needed prior to completion of Phase 3 to maintain acceptable levels of service at the intersections within the study area. However, given the high-level planning stage of the Sketch Plan, the relatively unique nature of the proposed development as a large rail-served industrial park, and the assumptions made as to the ultimate intensity of development, the actual timing of the need for the new connection to I-25 should be re-evaluated as development progresses within the site.

### 7.2 Internal Roadway Classifications

The analysis results indicate that the proposed functional classifications of the internal roadways as shown on the Sketch Plan are appropriate based on their projected buildout daily traffic volumes, connectivity, and expected use.

Note that Auxiliary lanes & queueing lengths will be looked at and identified with subsequent plan submittals (next levels).

## List of Acronyms and Definitions

### Average Daily Traffic (ADT)

The amount of vehicular traffic that crosses an imaginary line across a roadway in a 24-hour period. ADT information typically includes both directions of vehicle travel (if on a two-way street). When the term ADT is used specifically to mean typical weekday traffic, it is often called Average Weekday Daily Traffic (AWDT).

### Colorado Department of Transportation (CDOT)

The Colorado Department of Transportation Online Traffic Information System (OTIS) was used as a data source for historical trends-based annual and 20-year traffic growth factors. CDOT has jurisdiction over Colorado's State Highway System, including facilities within the project study area.

### Gap in Traffic

A gap in traffic is the space between vehicles approaching the pedestrian crossing. Gaps are typically measured in seconds, not distance, as it is the length of the gap in time in which a pedestrian must be able to cross the street. A directional gap is the gap between vehicles approaching in a single direction. A directional gap can be measured between vehicles in a single lane, or between vehicles approaching in the same direction but in different lanes on a multilane approach. If there is no median refuge at the crossing, a pedestrian will need to find an acceptable gap in traffic approaching from two directions at once. This is much more challenging than finding a gap in each approach direction separately.

### Highway Capacity Manual (HCM)

The Highway Capacity Manual is a publication of the U.S. Transportation Research Board of the National Academies of Science. It contains concepts, guidelines, and computational procedures for computing the capacity and quality of service of various highway facilities, including freeways, highways, arterial roads, roundabouts, signalized and unsignalized intersections, and rural highways, and the effects of mass transit, pedestrians, and bicycles on the performance of these systems. The Highway Capacity Manual Sixth Edition (HCM6) was used as part of this study.

### Lane

A portion of the roadway surface designated for motor vehicle travel, typically in a single direction, that is delineated by pavement marking stripes. Types of lanes include: "through lanes" for travel along the length of the roadway, often through intersections; "turn lanes" which are typically on intersection approaches and provide space for left or right turning motorists; "bike lanes" which are designated for bicycle travel in the same direction as the automobile travel, are typically narrower than vehicle lanes, and are usually located along the outside edges of the roadway.

### **Left Turn (LT)**

Refers to traffic that turns left at an intersection, often using a designated left-turn lane, and is sometimes afforded a dedicated left-turn phase in traffic signal timing.

### **Level of Service (LOS)**

A qualitative measure used to relate the quality of traffic service. LOS is used to analyze highways by categorizing traffic flow and assigning quality levels of traffic based on performance measure such as speed, density, and so forth.

### **Online Transportation Information System (OTIS)**

This is a publicly available website maintained by the Colorado Department of Transportation, providing information on current and projected traffic volumes, state highway attributes, summary roadway statistics, demographics and geographic data.

### **Right Turn (RT)**

Refers to traffic that turns right at an intersection, sometimes using a designated right-turn lane.

### **Through/Right Turn**

Refers to traffic (and the lane that carries it) at an intersection that is continuing forward straight through without turning, together with traffic that turns right at the intersection.

### **Two-Way Stop Controlled (TWSC)**

Cross street minor approaches that are controlled by STOP signs.

### **Turning Movement Counts**

Traffic counts for a given time interval that specify how many vehicles turn left or right, as well as counting vehicles that proceed straight forward through the intersection.

## List of References

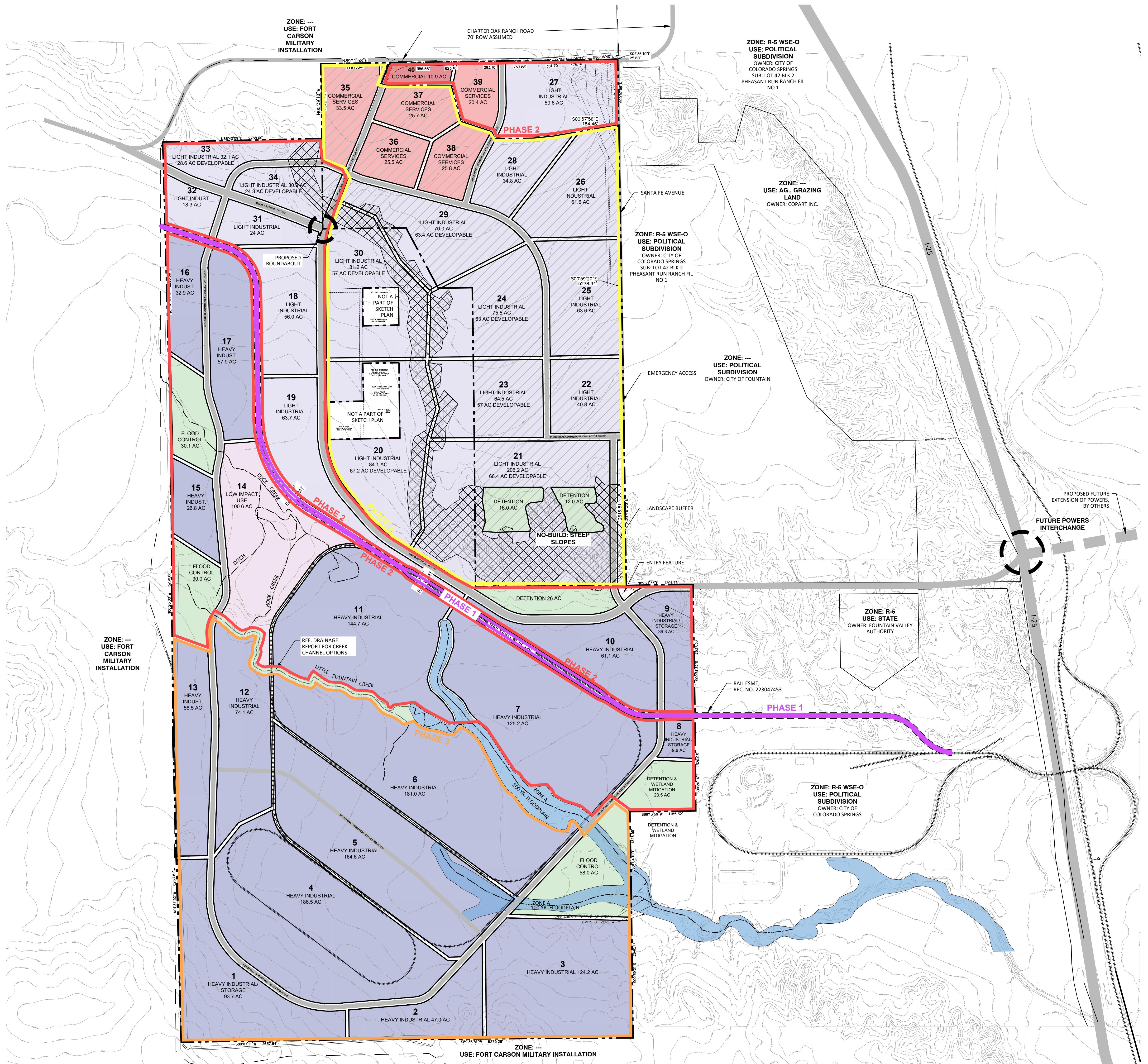
Institute of Traffic Engineers (ITE). 2021. *Trip Generation Manual, 11<sup>th</sup> Edition*. 5 vols. Washington, DC: National Academies Press.

Online Traffic Information System (OTIS). n.d. Colorado Department of Transportation (website). Accessed July 17, 2023. <http://dtdapps.coloradodot.info/otis>.

Transportation Research Board. 2016. *Highway Capacity Manual Sixth Edition: A Guide for Multimodal Mobility Analysis* (HCM6). Washington, DC: National Academies Press.

Include paragraph on pedestrian and bike facilities and address safety/accident analysis.

## Appendix A: Sketch Plan



#### CONSTRUCTION TIMELINE

- PHASE 1 BEGINS SPRING 2025
- PHASE 2 BEGINS SPRING 2030
- PHASE 3 BEGINS SPRING 2035
- PHASE 4 BEGINS SPRING 2040

#### LEGEND

|         |                                    |                  |
|---------|------------------------------------|------------------|
| PHASE 1 | 36.8 AC                            | TOTAL            |
|         | 36.8 AC                            | RAIL SPUR & ESMT |
| PHASE 2 | 906.4 AC                           | TOTAL            |
|         | 10.9 AC COMMERCIAL                 |                  |
|         | 20.4 AC COMMERCIAL SERVICES        |                  |
|         | 274.6 AC LIGHT INDUSTRIAL          |                  |
|         | 490.9 AC HEAVY INDUSTRIAL          |                  |
|         | 109.6 AC DETENTION & FLOOD CONTROL |                  |
| PHASE 3 | 949.3 AC                           | TOTAL            |
|         | 891.3 AC HEAVY INDUSTRIAL          |                  |
|         | 58 AC DETENTION & FLOOD CONTROL    |                  |
| PHASE 4 | 719.9 AC                           | TOTAL            |
|         | 110.5 AC COMMERCIAL SERVICES       |                  |
|         | 581.4 AC LIGHT INDUSTRIAL          |                  |
|         | 28 AC DETENTION                    |                  |

#### LAND USE LEGEND

|                                      |
|--------------------------------------|
| COMMERCIAL                           |
| COMMERCIAL SERVICES                  |
| LIGHT INDUSTRIAL                     |
| HEAVY INDUSTRIAL                     |
| PRESERVATION / LOW IMPACT USES       |
| DRAINAGE, FLOOD CONTROL & OPEN SPACE |
| 100 YR FLOODPLAIN                    |
| RAIL EASEMENT                        |
| ROADWAYS                             |
| FUTURE/PROPOSED ROADWAYS, BY OTHERS  |

#### SYMBOL & LINETYPE LEGEND

|       |  |
|-------|--|
| ●     | SITE ACCESS POINT  |
| —     | WATERWAYS  |
| —·—   | RAILWAYS   |
| - - - | PROPERTY BOUNDARY  |
| ■     | PHASE 1  |
| ■     | PHASE 2  |
| ■     | PHASE 3  |
| ■     | PHASE 4  |
| ▨     | NO-BUILD AREA  |
| ■     | 100-YR FLOOD AREA  |
| ▨     | CURRENT MINING OPERATION TO BE DEVELOPED UPON COMPLETION OF MINING OPERATION |

3  
3 OF 4

#

PLAN FILE #

SCALE: 1' = 800'

NORTH

0 400 800 1600

PLATE NUMBER

Sheet Title

Issue / Revision

Date: By: Description:

Stamp

Issue Info

Project Info

Date: Project Mgr: Prepared by:

06/05/2023 A. BARLOW J. SMITH

© 2012. All Rights Reserved.

PLANNER / LANDSCAPE ARCHITECT

N.E.S. Inc.

619 N. Cascade Avenue, Suite 200

Colorado Springs, CO 80903

Tel. 719.471.0073

Fax 719.471.0267

www.nescoolorado.com

IN ASSOCIATION WITH

SOUTHERN COLORADO RAIL PARK

SKETCH PLAN

EAST OF FORT CARSON, WEST OF I-25, SOUTH OF CHARTER OAK RANCH ROAD

ZONE: --- USE: FORT CARSON MILITARY INSTALLATION

9/6/2023 11:04:36 AM JSMith

## Appendix B: Traffic Counts

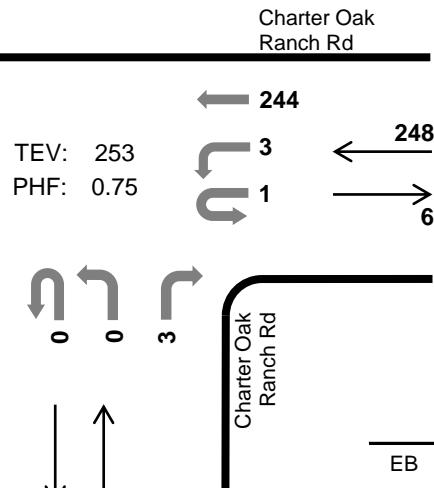
# Charter Oak Ranch Rd Eassayons Rd



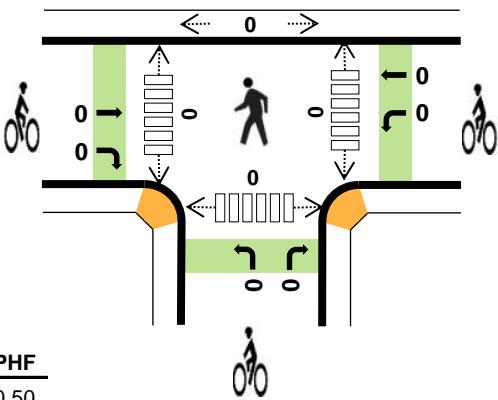
Date: 06/13/2023

Count Period: 5:00 AM to 8:00 AM

Peak Hour: 5:30 AM to 6:30 AM

Peak Hour

|       | HV %: | PHF  |
|-------|-------|------|
| EB    | 0.0%  | 0.50 |
| WB    | 1.2%  | 0.75 |
| NB    | 0.0%  | 0.75 |
| SB    | -     | -    |
| TOTAL | 1.2%  | 0.75 |



## Three-Hour Count Summaries

| Interval Start | Eassayons Rd |    |    |    | Charter Oak Ranch Rd |    |    |     | Charter Oak Ranch Rd |    |    |    | n/a        |    |    |    | 15-min Total | Rolling One Hour |
|----------------|--------------|----|----|----|----------------------|----|----|-----|----------------------|----|----|----|------------|----|----|----|--------------|------------------|
|                | Eastbound    |    |    |    | Westbound            |    |    |     | Northbound           |    |    |    | Southbound |    |    |    |              |                  |
|                | UT           | LT | TH | RT | UT                   | LT | TH | RT  | UT                   | LT | TH | RT | UT         | LT | TH | RT |              |                  |
| 5:30 AM        | 0            | 0  | 0  | 0  | 0                    | 0  | 52 | 0   | 0                    | 0  | 0  | 1  | 0          | 0  | 0  | 0  | 53           | 0                |
| 5:45 AM        | 0            | 0  | 0  | 0  | 1                    | 2  | 80 | 0   | 0                    | 0  | 0  | 1  | 0          | 0  | 0  | 0  | 84           | 0                |
| 6:00 AM        | 0            | 0  | 1  | 0  | 0                    | 1  | 74 | 0   | 0                    | 0  | 0  | 1  | 0          | 0  | 0  | 0  | 77           | 0                |
| 6:15 AM        | 0            | 0  | 1  | 0  | 0                    | 0  | 38 | 0   | 0                    | 0  | 0  | 0  | 0          | 0  | 0  | 0  | 39           | 253              |
| Peak Hour      | All          | 0  | 0  | 2  | 0                    | 1  | 3  | 244 | 0                    | 0  | 0  | 3  | 0          | 0  | 0  | 0  | 253          | 0                |
|                | HV           | 0  | 0  | 0  | 0                    | 0  | 0  | 3   | 0                    | 0  | 0  | 0  | 0          | 0  | 0  | 0  | 3            | 0                |
|                | HV%          | -  | -  | 0% | -                    | 0% | 0% | 1%  | -                    | -  | -  | 0% | -          | -  | -  | -  | 1%           | 0                |

Note: For all three-hour count summary, see next page.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 5:30 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:00 AM        | 0                    | 1  | 0  | 0  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:15 AM        | 0                    | 2  | 0  | 0  | 2     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hour      | 0                    | 3  | 0  | 0  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

**Three-Hour Count Summaries**

| Interval Start | Eassayons Rd |    |    |    | Charter Oak Ranch Rd |    |     |     | Charter Oak Ranch Rd |    |    |    | n/a        |    |    |     | 15-min Total | Rolling One Hour |
|----------------|--------------|----|----|----|----------------------|----|-----|-----|----------------------|----|----|----|------------|----|----|-----|--------------|------------------|
|                | Eastbound    |    |    |    | Westbound            |    |     |     | Northbound           |    |    |    | Southbound |    |    |     |              |                  |
| UT             | LT           | TH | RT | UT | LT                   | TH | RT  | UT  | LT                   | TH | RT | UT | LT         | TH | RT |     |              |                  |
| 5:00 AM        | 0            | 0  | 0  | 0  | 0                    | 0  | 10  | 0   | 0                    | 0  | 0  | 0  | 0          | 0  | 0  | 10  | 0            |                  |
| 5:15 AM        | 0            | 0  | 1  | 0  | 0                    | 0  | 23  | 0   | 0                    | 0  | 0  | 0  | 0          | 0  | 0  | 24  | 0            |                  |
| 5:30 AM        | 0            | 0  | 0  | 0  | 0                    | 0  | 52  | 0   | 0                    | 0  | 0  | 1  | 0          | 0  | 0  | 53  | 0            |                  |
| 5:45 AM        | 0            | 0  | 0  | 0  | 1                    | 2  | 80  | 0   | 0                    | 0  | 0  | 1  | 0          | 0  | 0  | 84  | 171          |                  |
| 6:00 AM        | 0            | 0  | 1  | 0  | 0                    | 1  | 74  | 0   | 0                    | 0  | 0  | 1  | 0          | 0  | 0  | 77  | 238          |                  |
| 6:15 AM        | 0            | 0  | 1  | 0  | 0                    | 0  | 38  | 0   | 0                    | 0  | 0  | 0  | 0          | 0  | 0  | 39  | 253          |                  |
| 6:30 AM        | 0            | 0  | 10 | 0  | 0                    | 1  | 37  | 0   | 0                    | 0  | 0  | 0  | 0          | 0  | 0  | 48  | 248          |                  |
| 6:45 AM        | 0            | 0  | 6  | 0  | 0                    | 0  | 36  | 0   | 0                    | 0  | 0  | 1  | 0          | 0  | 0  | 43  | 207          |                  |
| 7:00 AM        | 0            | 0  | 7  | 0  | 0                    | 1  | 23  | 0   | 0                    | 0  | 0  | 1  | 0          | 0  | 0  | 32  | 162          |                  |
| 7:15 AM        | 0            | 0  | 10 | 0  | 0                    | 1  | 27  | 0   | 0                    | 0  | 0  | 0  | 0          | 0  | 0  | 38  | 161          |                  |
| 7:30 AM        | 0            | 0  | 15 | 0  | 0                    | 2  | 26  | 0   | 0                    | 0  | 0  | 1  | 0          | 0  | 0  | 44  | 157          |                  |
| 7:45 AM        | 0            | 0  | 17 | 0  | 1                    | 0  | 36  | 0   | 0                    | 0  | 0  | 2  | 0          | 0  | 0  | 56  | 170          |                  |
| Count Total    | 0            | 0  | 68 | 0  | 2                    | 8  | 462 | 0   | 0                    | 0  | 0  | 8  | 0          | 0  | 0  | 548 | 0            |                  |
| Peak Hour      | All          | 0  | 0  | 2  | 0                    | 1  | 3   | 244 | 0                    | 0  | 0  | 0  | 3          | 0  | 0  | 0   | 253          | 0                |
|                | HV           | 0  | 0  | 0  | 0                    | 0  | 0   | 3   | 0                    | 0  | 0  | 0  | 0          | 0  | 0  | 3   | 0            |                  |
|                | HV%          | -  | -  | 0% | -                    | 0% | 0%  | 1%  | -                    | -  | -  | -  | 0%         | -  | -  | -   | 1%           | 0                |

Note: Three-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |   | Total |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|---|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South |   |       |
| 5:00 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| 5:15 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| 5:30 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| 5:45 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| 6:00 AM        | 0                    | 1  | 0  | 0  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| 6:15 AM        | 0                    | 2  | 0  | 0  | 2     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| 6:30 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| 6:45 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| 7:00 AM        | 0                    | 1  | 1  | 0  | 2     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| 7:15 AM        | 0                    | 1  | 0  | 0  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| 7:30 AM        | 0                    | 2  | 1  | 0  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| 7:45 AM        | 0                    | 0  | 2  | 0  | 2     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| Count Total    | 0                    | 7  | 4  | 0  | 11    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |
| Peak Hr        | 0                    | 3  | 0  | 0  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0 | 0     |

**Three-Hour Count Summaries - Heavy Vehicles**

| Interval Start   | Eassayons Rd |          |          |          | Charter Oak Ranch Rd |          |          |          | Charter Oak Ranch Rd |          |          |          | n/a        |          |          |          | 15-min Total | Rolling One Hour |  |  |
|------------------|--------------|----------|----------|----------|----------------------|----------|----------|----------|----------------------|----------|----------|----------|------------|----------|----------|----------|--------------|------------------|--|--|
|                  | Eastbound    |          |          |          | Westbound            |          |          |          | Northbound           |          |          |          | Southbound |          |          |          |              |                  |  |  |
|                  | UT           | LT       | TH       | RT       | UT                   | LT       | TH       | RT       | UT                   | LT       | TH       | RT       | UT         | LT       | TH       | RT       |              |                  |  |  |
| 5:00 AM          | 0            | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| 5:15 AM          | 0            | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| <b>5:30 AM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:45 AM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>6:00 AM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>1</b>     | <b>1</b>         |  |  |
| <b>6:15 AM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>2</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>2</b>     | <b>3</b>         |  |  |
| 6:30 AM          | 0            | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 3                |  |  |
| 6:45 AM          | 0            | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 3                |  |  |
| 7:00 AM          | 0            | 0        | 0        | 0        | 0                    | 1        | 0        | 0        | 0                    | 0        | 0        | 0        | 1          | 0        | 0        | 0        | 2            | 4                |  |  |
| 7:15 AM          | 0            | 0        | 0        | 0        | 0                    | 1        | 0        | 0        | 0                    | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 1            | 3                |  |  |
| 7:30 AM          | 0            | 0        | 0        | 0        | 0                    | 2        | 0        | 0        | 0                    | 0        | 0        | 0        | 1          | 0        | 0        | 0        | 3            | 6                |  |  |
| 7:45 AM          | 0            | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 2        | 0          | 0        | 0        | 0        | 2            | 8                |  |  |
| Count Total      | 0            | 0        | 0        | 0        | 0                    | 4        | 3        | 0        | 0                    | 0        | 0        | 4        | 0          | 0        | 0        | 0        | 11           | 0                |  |  |
| <b>Peak Hour</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>3</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>3</b>     | <b>0</b>         |  |  |

**Three-Hour Count Summaries - Bikes**

| Interval Start   | Eassayons Rd |          |          |  | Charter Oak Ranch Rd |          |          |  | Charter Oak Ranch Rd |          |          |  | n/a        |          |          |  | 15-min Total | Rolling One Hour |  |  |
|------------------|--------------|----------|----------|--|----------------------|----------|----------|--|----------------------|----------|----------|--|------------|----------|----------|--|--------------|------------------|--|--|
|                  | Eastbound    |          |          |  | Westbound            |          |          |  | Northbound           |          |          |  | Southbound |          |          |  |              |                  |  |  |
|                  | LT           | TH       | RT       |  | LT                   | TH       | RT       |  | LT                   | TH       | RT       |  | LT         | TH       | RT       |  |              |                  |  |  |
| 5:00 AM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| 5:15 AM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| <b>5:30 AM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> |  | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:45 AM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> |  | <b>0</b>     | <b>0</b>         |  |  |
| <b>6:00 AM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> |  | <b>0</b>     | <b>0</b>         |  |  |
| <b>6:15 AM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> |  | <b>0</b>     | <b>0</b>         |  |  |
| 6:30 AM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| 6:45 AM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| 7:00 AM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| 7:15 AM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| 7:30 AM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| 7:45 AM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| Count Total      | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| <b>Peak Hour</b> | <b>0</b>     | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> |  | <b>0</b>     | <b>0</b>         |  |  |

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

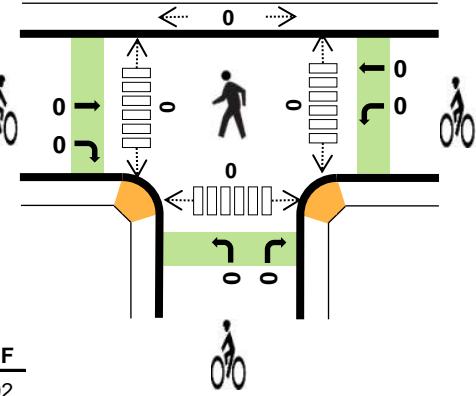
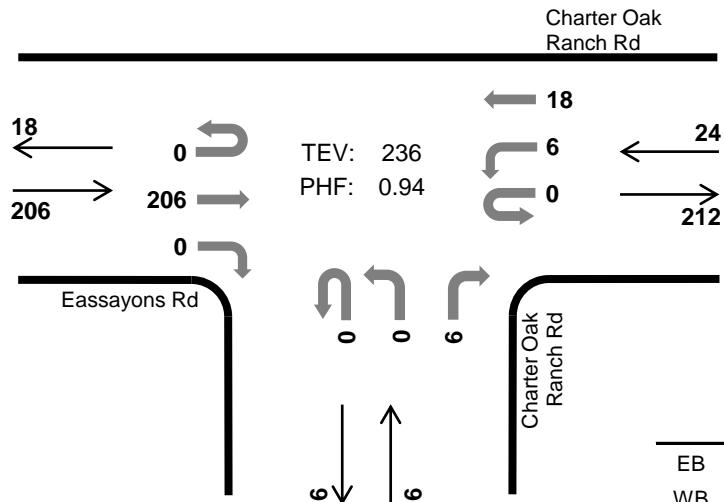
# Charter Oak Ranch Rd Eassayons Rd



Date: 06/13/2023

Count Period: 4:00 PM to 6:00 PM

Peak Hour: 4:30 PM to 5:30 PM

Peak Hour

|       | HV %: | PHF  |
|-------|-------|------|
| EB    | 0.0%  | 0.92 |
| WB    | 12.5% | 0.86 |
| NB    | 16.7% | 0.38 |
| SB    | -     | -    |
| TOTAL | 1.7%  | 0.94 |

## Two-Hour Count Summaries

| Interval Start | Eassayons Rd |          |           |          | Charter Oak Ranch Rd |          |          |          | Charter Oak Ranch Rd |          |          |          | n/a        |          |          |          | 15-min Total | Rolling One Hour |  |
|----------------|--------------|----------|-----------|----------|----------------------|----------|----------|----------|----------------------|----------|----------|----------|------------|----------|----------|----------|--------------|------------------|--|
|                | Eastbound    |          |           |          | Westbound            |          |          |          | Northbound           |          |          |          | Southbound |          |          |          |              |                  |  |
|                | UT           | LT       | TH        | RT       | UT                   | LT       | TH       | RT       | UT                   | LT       | TH       | RT       | UT         | LT       | TH       | RT       |              |                  |  |
| 4:00 PM        | 0            | 0        | 48        | 0        | 0                    | 0        | 5        | 0        | 0                    | 0        | 0        | 1        | 0          | 0        | 0        | 0        | 54           | 0                |  |
| 4:15 PM        | 0            | 0        | 42        | 0        | 0                    | 0        | 2        | 0        | 0                    | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 44           | 0                |  |
| <b>4:30 PM</b> | <b>0</b>     | <b>0</b> | <b>48</b> | <b>0</b> | <b>0</b>             | <b>2</b> | <b>3</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>53</b>    | <b>0</b>         |  |
| <b>4:45 PM</b> | <b>0</b>     | <b>0</b> | <b>53</b> | <b>0</b> | <b>0</b>             | <b>3</b> | <b>4</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>61</b>    | <b>212</b>       |  |
| <b>5:00 PM</b> | <b>0</b>     | <b>0</b> | <b>49</b> | <b>0</b> | <b>0</b>             | <b>1</b> | <b>5</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>4</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>59</b>    | <b>217</b>       |  |
| <b>5:15 PM</b> | <b>0</b>     | <b>0</b> | <b>56</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>6</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>63</b>    | <b>236</b>       |  |
| 5:30 PM        | 0            | 0        | 27        | 0        | 0                    | 0        | 6        | 0        | 0                    | 0        | 0        | 2        | 0          | 0        | 0        | 0        | 35           | 218              |  |
| 5:45 PM        | 0            | 0        | 12        | 1        | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 2        | 0          | 0        | 0        | 0        | 15           | 172              |  |
| Count Total    | 0            | 0        | 335       | 1        | 0                    | 6        | 31       | 0        | 0                    | 0        | 0        | 11       | 0          | 0        | 0        | 0        | 384          | 0                |  |
| Peak Hour      | All          | 0        | 0         | 206      | 0                    | 0        | 6        | 18       | 0                    | 0        | 0        | 6        | 0          | 0        | 0        | 0        | 236          | 0                |  |
|                | HV           | 0        | 0         | 0        | 0                    | 0        | 2        | 1        | 0                    | 0        | 0        | 1        | 0          | 0        | 0        | 0        | 4            | 0                |  |
| HV%            | -            | -        | 0%        | -        | -                    | 33%      | 6%       | -        | -                    | -        | -        | 17%      | -          | -        | -        | -        | 2%           | 0                |  |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |          |          |          |          | Bicycles |          |          |          |          | Pedestrians (Crossing Leg) |          |          |          |          |
|----------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|----------|
|                | EB                   | WB       | NB       | SB       | Total    | EB       | WB       | NB       | SB       | Total    | East                       | West     | North    | South    | Total    |
| 4:00 PM        | 0                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 4:15 PM        | 0                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| <b>4:30 PM</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>4:45 PM</b> | <b>0</b>             | <b>3</b> | <b>1</b> | <b>0</b> | <b>4</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>5:00 PM</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>5:15 PM</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| 5:30 PM        | 0                    | 0        | 1        | 0        | 1        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 5:45 PM        | 0                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| Count Total    | 0                    | 3        | 2        | 0        | 5        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| Peak Hr        | 0                    | 3        | 1        | 0        | 4        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |

**Two-Hour Count Summaries - Heavy Vehicles**

| Interval Start   | Eassayons Rd |          |          |          | Charter Oak Ranch Rd |          |          |          | Charter Oak Ranch Rd |          |          |          | n/a        |          |          |          | 15-min Total | Rolling One Hour |  |  |
|------------------|--------------|----------|----------|----------|----------------------|----------|----------|----------|----------------------|----------|----------|----------|------------|----------|----------|----------|--------------|------------------|--|--|
|                  | Eastbound    |          |          |          | Westbound            |          |          |          | Northbound           |          |          |          | Southbound |          |          |          |              |                  |  |  |
|                  | UT           | LT       | TH       | RT       | UT                   | LT       | TH       | RT       | UT                   | LT       | TH       | RT       | UT         | LT       | TH       | RT       |              |                  |  |  |
| 4:00 PM          | 0            | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| 4:15 PM          | 0            | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| <b>4:30 PM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>4:45 PM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>2</b> | <b>1</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>4</b>     | <b>4</b>         |  |  |
| <b>5:00 PM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>4</b>         |  |  |
| <b>5:15 PM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>4</b>         |  |  |
| 5:30 PM          | 0            | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 1        | 0          | 0        | 0        | 0        | 1            | 5                |  |  |
| 5:45 PM          | 0            | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 1                |  |  |
| Count Total      | 0            | 0        | 0        | 0        | 0                    | 2        | 1        | 0        | 0                    | 0        | 0        | 2        | 0          | 0        | 0        | 0        | 5            | 0                |  |  |
| <b>Peak Hour</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>2</b> | <b>1</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>4</b>     | <b>0</b>         |  |  |

**Two-Hour Count Summaries - Bikes**

| Interval Start   | Eassayons Rd |          |          |  | Charter Oak Ranch Rd |          |          |  | Charter Oak Ranch Rd |          |          |  | n/a        |          |          |  | 15-min Total | Rolling One Hour |  |  |
|------------------|--------------|----------|----------|--|----------------------|----------|----------|--|----------------------|----------|----------|--|------------|----------|----------|--|--------------|------------------|--|--|
|                  | Eastbound    |          |          |  | Westbound            |          |          |  | Northbound           |          |          |  | Southbound |          |          |  |              |                  |  |  |
|                  | LT           | TH       | RT       |  | LT                   | TH       | RT       |  | LT                   | TH       | RT       |  | LT         | TH       | RT       |  |              |                  |  |  |
| 4:00 PM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| 4:15 PM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| <b>4:30 PM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> |  | <b>0</b>     | <b>0</b>         |  |  |
| <b>4:45 PM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> |  | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:00 PM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> |  | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:15 PM</b>   | <b>0</b>     | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> |  | <b>0</b>     | <b>0</b>         |  |  |
| 5:30 PM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| 5:45 PM          | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| Count Total      | 0            | 0        | 0        |  | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0          | 0        | 0        |  | 0            | 0                |  |  |
| <b>Peak Hour</b> | <b>0</b>     | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> |  | <b>0</b>     | <b>0</b>         |  |  |

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

# Fountain Utilities Access

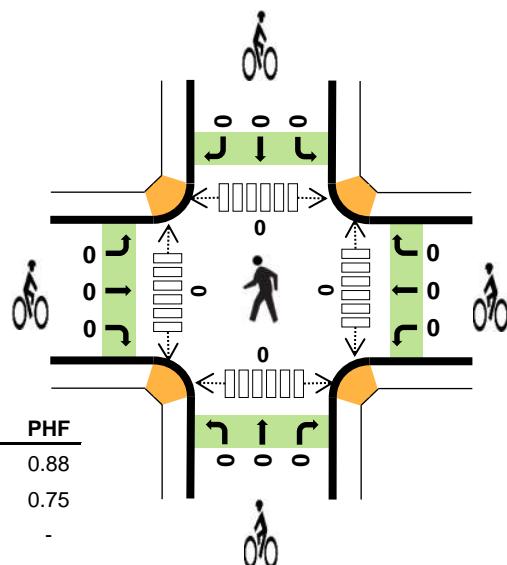
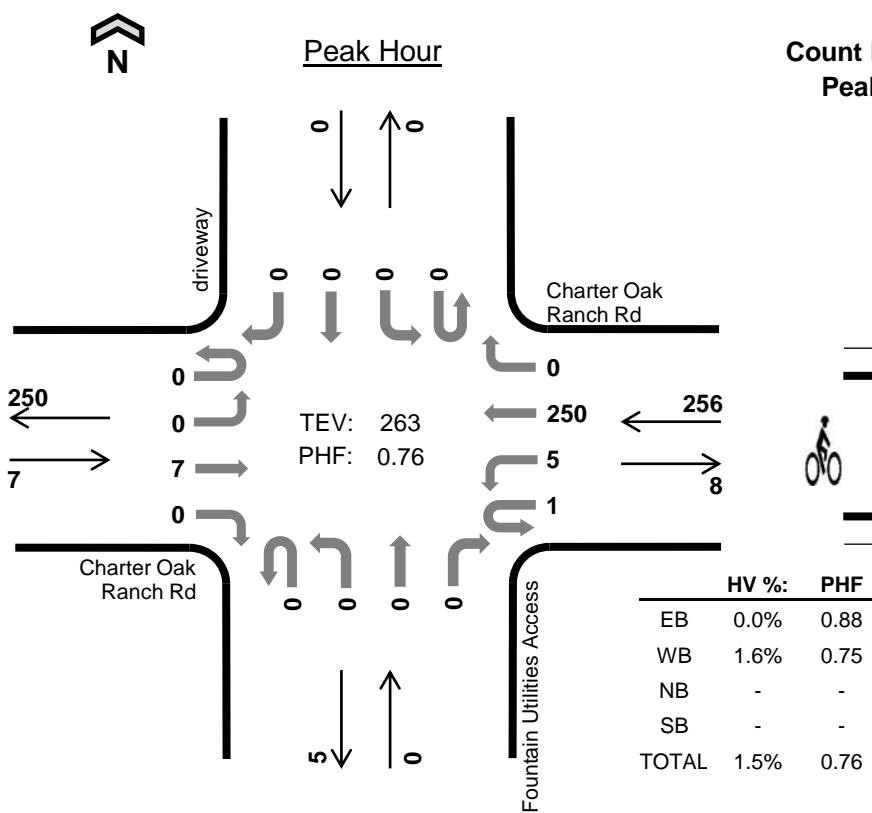
## Charter Oak Ranch Rd



Date: 06/13/2023

Count Period: 5:00 AM to 8:00 AM

Peak Hour: 5:30 AM to 6:30 AM



### Three-Hour Count Summaries

| Interval Start | Charter Oak Ranch Rd |    |    |    | Charter Oak Ranch Rd |    |     |     | Fountain Utilities Access |    |    |    | driveway   |    |    |    | 15-min Total | Rolling One Hour |  |
|----------------|----------------------|----|----|----|----------------------|----|-----|-----|---------------------------|----|----|----|------------|----|----|----|--------------|------------------|--|
|                | Eastbound            |    |    |    | Westbound            |    |     |     | Northbound                |    |    |    | Southbound |    |    |    |              |                  |  |
|                | UT                   | LT | TH | RT | UT                   | LT | TH  | RT  | UT                        | LT | TH | RT | UT         | LT | TH | RT |              |                  |  |
| 5:30 AM        | 0                    | 0  | 1  | 0  | 0                    | 0  | 59  | 0   | 0                         | 0  | 0  | 0  | 0          | 0  | 0  | 0  | 60           | 0                |  |
| 5:45 AM        | 0                    | 0  | 2  | 0  | 0                    | 1  | 84  | 0   | 0                         | 0  | 0  | 0  | 0          | 0  | 0  | 0  | 87           | 0                |  |
| 6:00 AM        | 0                    | 0  | 2  | 0  | 1                    | 2  | 72  | 0   | 0                         | 0  | 0  | 0  | 0          | 0  | 0  | 0  | 77           | 0                |  |
| 6:15 AM        | 0                    | 0  | 2  | 0  | 0                    | 2  | 35  | 0   | 0                         | 0  | 0  | 0  | 0          | 0  | 0  | 0  | 39           | 263              |  |
| Peak Hour      | All                  | 0  | 0  | 7  | 0                    | 1  | 5   | 250 | 0                         | 0  | 0  | 0  | 0          | 0  | 0  | 0  | 263          | 0                |  |
|                | HV                   | 0  | 0  | 0  | 0                    | 0  | 1   | 3   | 0                         | 0  | 0  | 0  | 0          | 0  | 0  | 0  | 4            | 0                |  |
|                | HV%                  | -  | -  | 0% | -                    | 0% | 20% | 1%  | -                         | -  | -  | -  | -          | -  | -  | -  | 2%           | 0                |  |

Note: For all three-hour count summary, see next page.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 5:30 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:00 AM        | 0                    | 1  | 0  | 0  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:15 AM        | 0                    | 3  | 0  | 0  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hour      | 0                    | 4  | 0  | 0  | 4     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

| Three-Hour Count Summaries |                      |    |    |    |                      |    |     |     |                           |    |    |    |            | 15-min Total | Rolling One Hour |    |              |                  |  |  |
|----------------------------|----------------------|----|----|----|----------------------|----|-----|-----|---------------------------|----|----|----|------------|--------------|------------------|----|--------------|------------------|--|--|
| Interval Start             | Charter Oak Ranch Rd |    |    |    | Charter Oak Ranch Rd |    |     |     | Fountain Utilities Access |    |    |    | driveway   |              |                  |    | 15-min Total | Rolling One Hour |  |  |
|                            | Eastbound            |    |    |    | Westbound            |    |     |     | Northbound                |    |    |    | Southbound |              |                  |    |              |                  |  |  |
|                            | UT                   | LT | TH | RT | UT                   | LT | TH  | RT  | UT                        | LT | TH | RT | UT         | LT           | TH               | RT |              |                  |  |  |
| 5:00 AM                    | 0                    | 0  | 0  | 0  | 0                    | 0  | 11  | 0   | 0                         | 0  | 0  | 0  | 0          | 0            | 0                | 0  | 11           | 0                |  |  |
| 5:15 AM                    | 0                    | 0  | 1  | 0  | 0                    | 0  | 22  | 0   | 0                         | 0  | 0  | 0  | 0          | 0            | 0                | 0  | 23           | 0                |  |  |
| 5:30 AM                    | 0                    | 0  | 1  | 0  | 0                    | 0  | 59  | 0   | 0                         | 0  | 0  | 0  | 0          | 0            | 0                | 0  | 60           | 0                |  |  |
| 5:45 AM                    | 0                    | 0  | 2  | 0  | 0                    | 1  | 84  | 0   | 0                         | 0  | 0  | 0  | 0          | 0            | 0                | 0  | 87           | 181              |  |  |
| 6:00 AM                    | 0                    | 0  | 2  | 0  | 1                    | 2  | 72  | 0   | 0                         | 0  | 0  | 0  | 0          | 0            | 0                | 0  | 77           | 247              |  |  |
| 6:15 AM                    | 0                    | 0  | 2  | 0  | 0                    | 2  | 35  | 0   | 0                         | 0  | 0  | 0  | 0          | 0            | 0                | 0  | 39           | 263              |  |  |
| 6:30 AM                    | 0                    | 0  | 6  | 0  | 0                    | 7  | 41  | 0   | 0                         | 0  | 0  | 0  | 0          | 0            | 0                | 0  | 54           | 257              |  |  |
| 6:45 AM                    | 0                    | 0  | 9  | 0  | 0                    | 11 | 36  | 0   | 0                         | 0  | 0  | 0  | 0          | 0            | 0                | 0  | 56           | 226              |  |  |
| 7:00 AM                    | 0                    | 0  | 7  | 0  | 1                    | 3  | 22  | 1   | 0                         | 0  | 0  | 1  | 0          | 0            | 0                | 1  | 36           | 185              |  |  |
| 7:15 AM                    | 0                    | 0  | 10 | 0  | 0                    | 2  | 24  | 0   | 0                         | 1  | 0  | 0  | 0          | 0            | 0                | 0  | 37           | 183              |  |  |
| 7:30 AM                    | 0                    | 0  | 17 | 0  | 0                    | 6  | 29  | 0   | 0                         | 0  | 0  | 6  | 0          | 0            | 0                | 0  | 58           | 187              |  |  |
| 7:45 AM                    | 0                    | 0  | 20 | 0  | 1                    | 6  | 36  | 0   | 0                         | 0  | 0  | 4  | 0          | 0            | 0                | 0  | 67           | 198              |  |  |
| Count Total                | 0                    | 0  | 77 | 0  | 3                    | 40 | 471 | 1   | 0                         | 1  | 0  | 11 | 0          | 0            | 0                | 1  | 605          | 0                |  |  |
| Peak Hour                  | All                  | 0  | 0  | 7  | 0                    | 1  | 5   | 250 | 0                         | 0  | 0  | 0  | 0          | 0            | 0                | 0  | 263          | 0                |  |  |
|                            | HV                   | 0  | 0  | 0  | 0                    | 0  | 1   | 3   | 0                         | 0  | 0  | 0  | 0          | 0            | 0                | 0  | 4            | 0                |  |  |
|                            | HV%                  | -  | -  | 0% | -                    | 0% | 20% | 1%  | -                         | -  | -  | -  | -          | -            | -                | -  | 2%           | 0                |  |  |

Note: Three-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 5:00 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:30 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:00 AM        | 0                    | 1  | 0  | 0  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:15 AM        | 0                    | 3  | 0  | 0  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:30 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:45 AM        | 0                    | 1  | 0  | 0  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 7:00 AM        | 1                    | 2  | 0  | 0  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 7:15 AM        | 0                    | 2  | 1  | 0  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 7:30 AM        | 1                    | 1  | 4  | 0  | 6     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 7:45 AM        | 2                    | 1  | 1  | 0  | 4     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 4                    | 11 | 6  | 0  | 21    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hour      | 0                    | 4  | 0  | 0  | 4     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

| Three-Hour Count Summaries - Heavy Vehicles |                      |          |          |          |                      |          |          |          |                           |          |          |          |            |          |          |          |              |                  |  |  |
|---|----------------------|----------|----------|----------|----------------------|----------|----------|----------|---------------------------|----------|----------|----------|------------|----------|----------|----------|--------------|------------------|--|--|
| Interval Start                              | Charter Oak Ranch Rd |          |          |          | Charter Oak Ranch Rd |          |          |          | Fountain Utilities Access |          |          |          | driveway   |          |          |          | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound            |          |          |          | Westbound            |          |          |          | Northbound                |          |          |          | Southbound |          |          |          |              |                  |  |  |
|   | UT                   | LT       | TH       | RT       | UT                   | LT       | TH       | RT       | UT                        | LT       | TH       | RT       | UT         | LT       | TH       | RT       |              |                  |  |  |
| 5:00 AM                                     | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| 5:15 AM                                     | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| <b>5:30 AM</b>                              | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:45 AM</b>                              | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>6:00 AM</b>                              | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>1</b>     | <b>1</b>         |  |  |
| <b>6:15 AM</b>                              | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>1</b> | <b>2</b> | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>3</b>     | <b>4</b>         |  |  |
| 6:30 AM                                     | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| 6:45 AM                                     | 0                    | 0        | 0        | 0        | 0                    | 1        | 0        | 0        | 0                         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 1            | 5                |  |  |
| 7:00 AM                                     | 0                    | 0        | 1        | 0        | 1                    | 0        | 1        | 0        | 0                         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 3            | 7                |  |  |
| 7:15 AM                                     | 0                    | 0        | 0        | 0        | 0                    | 1        | 1        | 0        | 0                         | 1        | 0        | 0        | 0          | 0        | 0        | 0        | 3            | 7                |  |  |
| 7:30 AM                                     | 0                    | 0        | 1        | 0        | 0                    | 0        | 1        | 0        | 0                         | 0        | 0        | 4        | 0          | 0        | 0        | 0        | 6            | 13               |  |  |
| 7:45 AM                                     | 0                    | 0        | 2        | 0        | 1                    | 0        | 0        | 0        | 0                         | 0        | 0        | 1        | 0          | 0        | 0        | 0        | 4            | 16               |  |  |
| Count Total                                 | 0                    | 0        | 4        | 0        | 2                    | 3        | 6        | 0        | 0                         | 1        | 0        | 5        | 0          | 0        | 0        | 0        | 21           | 0                |  |  |
| <b>Peak Hour</b>                            | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>1</b> | <b>3</b> | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>4</b> | <b>0</b>     |                  |  |  |

| Three-Hour Count Summaries - Bikes |                      |          |          |  |                      |          |          |  |                           |          |          |  |            |          |          |          |              |                  |  |  |
|------------------------------------|----------------------|----------|----------|--|----------------------|----------|----------|--|---------------------------|----------|----------|--|------------|----------|----------|----------|--------------|------------------|--|--|
| Interval Start                     | Charter Oak Ranch Rd |          |          |  | Charter Oak Ranch Rd |          |          |  | Fountain Utilities Access |          |          |  | driveway   |          |          |          | 15-min Total | Rolling One Hour |  |  |
|                                    | Eastbound            |          |          |  | Westbound            |          |          |  | Northbound                |          |          |  | Southbound |          |          |          |              |                  |  |  |
|                                    | LT                   | TH       | RT       |  | LT                   | TH       | RT       |  | LT                        | TH       | RT       |  | LT         | TH       | RT       |          |              |                  |  |  |
| 5:00 AM                            | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0                         | 0        | 0        |  | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| 5:15 AM                            | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0                         | 0        | 0        |  | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| <b>5:30 AM</b>                     | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>                  | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:45 AM</b>                     | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>                  | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>6:00 AM</b>                     | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>                  | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>6:15 AM</b>                     | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>                  | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b>         |  |  |
| 6:30 AM                            | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0                         | 0        | 0        |  | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| 6:45 AM                            | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0                         | 0        | 0        |  | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| 7:00 AM                            | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0                         | 0        | 0        |  | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| 7:15 AM                            | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0                         | 0        | 0        |  | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| 7:30 AM                            | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0                         | 0        | 0        |  | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| 7:45 AM                            | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0                         | 0        | 0        |  | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| Count Total                        | 0                    | 0        | 0        |  | 0                    | 0        | 0        |  | 0                         | 0        | 0        |  | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| <b>Peak Hour</b>                   | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>             | <b>0</b> | <b>0</b> |  | <b>0</b>                  | <b>0</b> | <b>0</b> |  | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b>         |  |  |

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

# Fountain Utilities Access

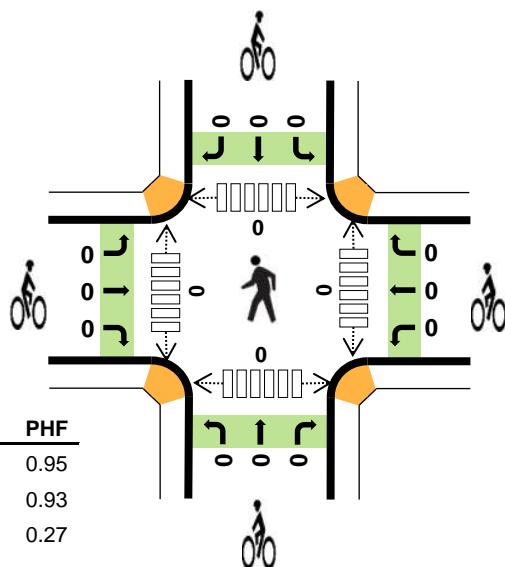
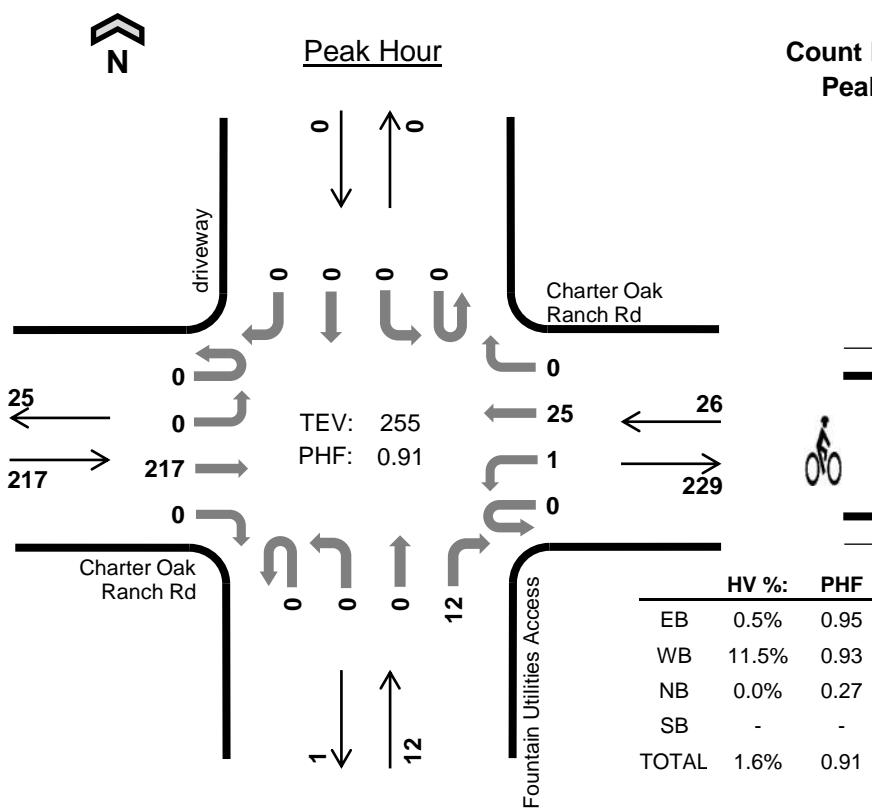
## Charter Oak Ranch Rd



Date: 06/13/2023

Count Period: 4:00 PM to 6:00 PM

Peak Hour: 4:30 PM to 5:30 PM



### Two-Hour Count Summaries

| Interval Start | Charter Oak Ranch Rd |          |           |          | Charter Oak Ranch Rd |          |            |          | Fountain Utilities Access |          |          |           | driveway |          |          |          | 15-min Total | Rolling One Hour |   |
|----------------|----------------------|----------|-----------|----------|----------------------|----------|------------|----------|---------------------------|----------|----------|-----------|----------|----------|----------|----------|--------------|------------------|---|
|                | Eastbound            |          | Westbound |          | Northbound           |          | Southbound |          | UT                        |          | LT       |           | TH       |          | RT       |          |              |                  |   |
|                | UT                   | LT       | TH        | RT       | UT                   | LT       | TH         | RT       | UT                        | LT       | TH       | RT        | UT       | LT       | TH       | RT       |              |                  |   |
| 4:00 PM        | 0                    | 0        | 44        | 0        | 0                    | 1        | 4          | 0        | 0                         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 52           | 0                |   |
| 4:15 PM        | 0                    | 0        | 40        | 0        | 0                    | 0        | 4          | 0        | 0                         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 46           | 0                |   |
| <b>4:30 PM</b> | <b>0</b>             | <b>0</b> | <b>52</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>7</b>   | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>11</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>70</b>    | <b>0</b>         |   |
| <b>4:45 PM</b> | <b>0</b>             | <b>0</b> | <b>52</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>5</b>   | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>57</b>    | <b>225</b>       |   |
| <b>5:00 PM</b> | <b>0</b>             | <b>0</b> | <b>57</b> | <b>0</b> | <b>0</b>             | <b>1</b> | <b>6</b>   | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>64</b>    | <b>237</b>       |   |
| <b>5:15 PM</b> | <b>0</b>             | <b>0</b> | <b>56</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>7</b>   | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>1</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>64</b>    | <b>255</b>       |   |
| 5:30 PM        | 0                    | 0        | 30        | 0        | 0                    | 0        | 5          | 0        | 0                         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 35           | 220              |   |
| 5:45 PM        | 0                    | 0        | 16        | 0        | 0                    | 0        | 0          | 0        | 0                         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 16           | 179              |   |
| Count Total    | 0                    | 0        | 347       | 0        | 0                    | 2        | 38         | 0        | 0                         | 0        | 0        | 17        | 0        | 0        | 0        | 0        | 404          | 0                |   |
| Peak Hour      | All                  | 0        | 0         | 217      | 0                    | 0        | 1          | 25       | 0                         | 0        | 0        | 0         | 12       | 0        | 0        | 0        | 0            | 255              | 0 |
| HV             | 0                    | 0        | 1         | 0        | 0                    | 0        | 3          | 0        | 0                         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 4            | 0                |   |
| HV%            | -                    | -        | 0%        | -        | -                    | 0%       | 12%        | -        | -                         | -        | -        | 0%        | -        | -        | -        | -        | 2%           | 0                |   |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |          |          |          |          | Bicycles |          |          |          |          | Pedestrians (Crossing Leg) |          |          |          |          |
|----------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|----------|
|                | EB                   | WB       | NB       | SB       | Total    | EB       | WB       | NB       | SB       | Total    | East                       | West     | North    | South    | Total    |
| 4:00 PM        | 0                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 4:15 PM        | 0                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| <b>4:30 PM</b> | <b>0</b>             | <b>2</b> | <b>0</b> | <b>0</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>4:45 PM</b> | <b>1</b>             | <b>1</b> | <b>0</b> | <b>0</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>5:00 PM</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>5:15 PM</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| 5:30 PM        | 1                    | 0        | 0        | 0        | 1        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 5:45 PM        | 0                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| Count Total    | 2                    | 3        | 0        | 0        | 5        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| Peak Hour      | 1                    | 3        | 0        | 0        | 4        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |

| Two-Hour Count Summaries - Heavy Vehicles                         |                      |          |          |          |                      |          |          |          |                           |          |          |          |            |          |          |          |              |                  |  |  |
|---|----------------------|----------|----------|----------|----------------------|----------|----------|----------|---------------------------|----------|----------|----------|------------|----------|----------|----------|--------------|------------------|--|--|
| Interval Start  | Charter Oak Ranch Rd |          |          |          | Charter Oak Ranch Rd |          |          |          | Fountain Utilities Access |          |          |          | driveway   |          |          |          | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound            |          |          |          | Westbound            |          |          |          | Northbound                |          |          |          | Southbound |          |          |          |              |                  |  |  |
|   | UT                   | LT       | TH       | RT       | UT                   | LT       | TH       | RT       | UT                        | LT       | TH       | RT       | UT         | LT       | TH       | RT       |              |                  |  |  |
| 4:00 PM   | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| 4:15 PM   | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 0                |  |  |
| <b>4:30 PM</b>  | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>2</b> | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>2</b>     | <b>0</b>         |  |  |
| <b>4:45 PM</b>  | <b>0</b>             | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>2</b>     | <b>4</b>         |  |  |
| <b>5:00 PM</b>  | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>4</b>         |  |  |
| <b>5:15 PM</b>  | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>4</b>         |  |  |
| 5:30 PM   | 0                    | 0        | 1        | 0        | 0                    | 0        | 0        | 0        | 0                         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 1            | 3                |  |  |
| 5:45 PM   | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0            | 1                |  |  |
| Count Total   | 0                    | 0        | 2        | 0        | 0                    | 0        | 3        | 0        | 0                         | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 5            | 0                |  |  |
| Peak Hour   | <b>0</b>             | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>3</b> | <b>0</b> | <b>0</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>4</b> | <b>0</b>     |                  |  |  |
| Two-Hour Count Summaries - Bikes                                  |                      |          |          |          |                      |          |          |          |                           |          |          |          |            |          |          |          |              |                  |  |  |
| Interval Start  | Charter Oak Ranch Rd |          |          |          | Charter Oak Ranch Rd |          |          |          | Fountain Utilities Access |          |          |          | driveway   |          |          |          | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound            |          |          |          | Westbound            |          |          |          | Northbound                |          |          |          | Southbound |          |          |          |              |                  |  |  |
|   | LT                   | TH       | RT       |          | LT                   | TH       | RT       |          | LT                        | TH       | RT       |          | LT         | TH       | RT       |          |              |                  |  |  |
| 4:00 PM   | 0                    | 0        | 0        |          | 0                    | 0        | 0        |          | 0                         | 0        | 0        |          | 0          | 0        | 0        |          | 0            | 0                |  |  |
| 4:15 PM   | 0                    | 0        | 0        |          | 0                    | 0        | 0        |          | 0                         | 0        | 0        |          | 0          | 0        | 0        |          | 0            | 0                |  |  |
| <b>4:30 PM</b>  | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>                  | <b>0</b> | <b>0</b> |          | <b>0</b>   | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| <b>4:45 PM</b>  | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>                  | <b>0</b> | <b>0</b> |          | <b>0</b>   | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:00 PM</b>  | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>                  | <b>0</b> | <b>0</b> |          | <b>0</b>   | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:15 PM</b>  | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>                  | <b>0</b> | <b>0</b> |          | <b>0</b>   | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| 5:30 PM   | 0                    | 0        | 0        |          | 0                    | 0        | 0        |          | 0                         | 0        | 0        |          | 0          | 0        | 0        |          | 0            | 0                |  |  |
| 5:45 PM   | 0                    | 0        | 0        |          | 0                    | 0        | 0        |          | 0                         | 0        | 0        |          | 0          | 0        | 0        |          | 0            | 0                |  |  |
| Count Total   | 0                    | 0        | 0        |          | 0                    | 0        | 0        |          | 0                         | 0        | 0        |          | 0          | 0        | 0        |          | 0            | 0                |  |  |
| Peak Hour   | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>                  | <b>0</b> | <b>0</b> |          | <b>0</b>   | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| Note: U-Turn volumes for bikes are included in Left-Turn, if any. |                      |          |          |          |                      |          |          |          |                           |          |          |          |            |          |          |          |              |                  |  |  |

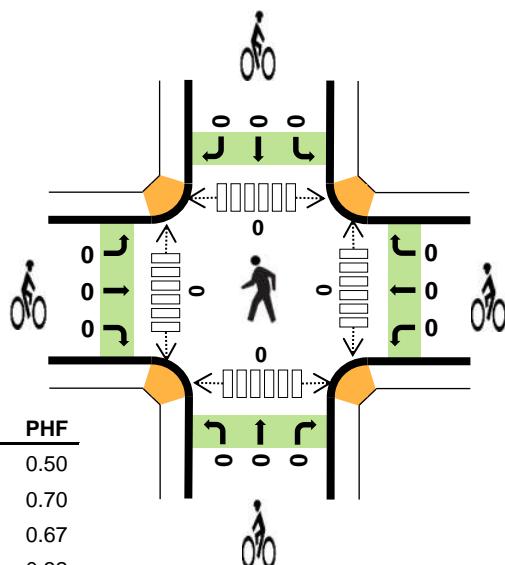
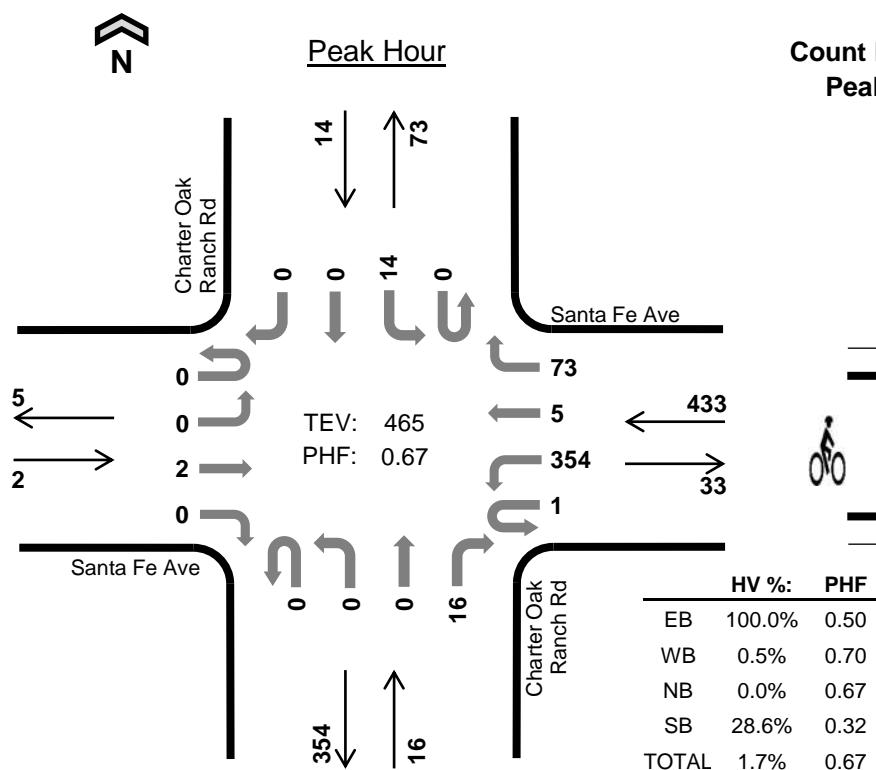
# Charter Oak Ranch Rd Santa Fe Ave



Date: 06/13/2023

Count Period: 5:00 AM to 8:00 AM

Peak Hour: 5:15 AM to 6:15 AM



## Three-Hour Count Summaries

| Interval Start | Santa Fe Ave |    |    |      | Santa Fe Ave |     |     |    | Charter Oak Ranch Rd |    |    |    | Charter Oak Ranch Rd |    |     |    | 15-min Total | Rolling One Hour |   |
|----------------|--------------|----|----|------|--------------|-----|-----|----|----------------------|----|----|----|----------------------|----|-----|----|--------------|------------------|---|
|                | Eastbound    |    |    |      | Westbound    |     |     |    | Northbound           |    |    |    | Southbound           |    |     |    |              |                  |   |
|                | UT           | LT | TH | RT   | UT           | LT  | TH  | RT | UT                   | LT | TH | RT | UT                   | LT | TH  | RT |              |                  |   |
| 5:15 AM        | 0            | 0  | 0  | 0    | 0            | 16  | 2   | 45 | 0                    | 0  | 0  | 2  | 0                    | 0  | 0   | 0  | 65           | 0                |   |
| 5:30 AM        | 0            | 0  | 1  | 0    | 0            | 115 | 1   | 11 | 0                    | 0  | 0  | 5  | 0                    | 0  | 0   | 0  | 133          | 0                |   |
| 5:45 AM        | 0            | 0  | 1  | 0    | 0            | 144 | 1   | 10 | 0                    | 0  | 0  | 6  | 0                    | 11 | 0   | 0  | 173          | 0                |   |
| 6:00 AM        | 0            | 0  | 0  | 0    | 1            | 79  | 1   | 7  | 0                    | 0  | 0  | 3  | 0                    | 3  | 0   | 0  | 94           | 465              |   |
| Peak Hour      | All          | 0  | 0  | 2    | 0            | 1   | 354 | 5  | 73                   | 0  | 0  | 0  | 16                   | 0  | 14  | 0  | 0            | 465              | 0 |
|                | HV           | 0  | 0  | 2    | 0            | 0   | 2   | 0  | 0                    | 0  | 0  | 0  | 0                    | 0  | 4   | 0  | 0            | 8                | 0 |
|                | HV%          | -  | -  | 100% | -            | 0%  | 1%  | 0% | 0%                   | -  | -  | -  | 0%                   | -  | 29% | -  | -            | 2%               | 0 |

Note: For all three-hour count summary, see next page.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 5:15 AM        | 0                    | 1  | 0  | 0  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:30 AM        | 1                    | 0  | 0  | 0  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 AM        | 1                    | 1  | 0  | 1  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:00 AM        | 0                    | 0  | 0  | 3  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hour      | 2                    | 2  | 0  | 4  | 8     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

| Three-Hour Count Summaries |              |    |    |      |              |     |     |     |                      |    |    |     |                      |    |     |    |              |                  |   |  |
|----------------------------|--------------|----|----|------|--------------|-----|-----|-----|----------------------|----|----|-----|----------------------|----|-----|----|--------------|------------------|---|--|
| Interval Start             | Santa Fe Ave |    |    |      | Santa Fe Ave |     |     |     | Charter Oak Ranch Rd |    |    |     | Charter Oak Ranch Rd |    |     |    | 15-min Total | Rolling One Hour |   |  |
|                            | Eastbound    |    |    |      | Westbound    |     |     |     | Northbound           |    |    |     | Southbound           |    |     |    |              |                  |   |  |
|                            | UT           | LT | TH | RT   | UT           | LT  | TH  | RT  | UT                   | LT | TH | RT  | UT                   | LT | TH  | RT |              |                  |   |  |
| 5:00 AM                    | 0            | 0  | 0  | 0    | 0            | 4   | 1   | 9   | 0                    | 0  | 0  | 0   | 0                    | 0  | 0   | 0  | 14           | 0                |   |  |
| 5:15 AM                    | 0            | 0  | 0  | 0    | 0            | 16  | 2   | 45  | 0                    | 0  | 0  | 2   | 0                    | 0  | 0   | 0  | 65           | 0                |   |  |
| 5:30 AM                    | 0            | 0  | 1  | 0    | 0            | 115 | 1   | 11  | 0                    | 0  | 0  | 5   | 0                    | 0  | 0   | 0  | 133          | 0                |   |  |
| 5:45 AM                    | 0            | 0  | 1  | 0    | 0            | 144 | 1   | 10  | 0                    | 0  | 0  | 6   | 0                    | 11 | 0   | 0  | 173          | 385              |   |  |
| 6:00 AM                    | 0            | 0  | 0  | 0    | 1            | 79  | 1   | 7   | 0                    | 0  | 0  | 3   | 0                    | 3  | 0   | 0  | 94           | 465              |   |  |
| 6:15 AM                    | 0            | 0  | 0  | 0    | 0            | 43  | 1   | 7   | 0                    | 0  | 0  | 2   | 0                    | 1  | 0   | 0  | 54           | 454              |   |  |
| 6:30 AM                    | 0            | 0  | 0  | 0    | 0            | 48  | 4   | 9   | 0                    | 0  | 0  | 6   | 0                    | 5  | 0   | 0  | 72           | 393              |   |  |
| 6:45 AM                    | 0            | 0  | 0  | 0    | 0            | 63  | 0   | 24  | 0                    | 0  | 0  | 13  | 0                    | 3  | 0   | 1  | 104          | 324              |   |  |
| 7:00 AM                    | 0            | 0  | 0  | 0    | 1            | 34  | 0   | 16  | 0                    | 0  | 0  | 6   | 0                    | 44 | 0   | 1  | 102          | 332              |   |  |
| 7:15 AM                    | 0            | 0  | 1  | 0    | 0            | 33  | 6   | 14  | 0                    | 0  | 0  | 10  | 0                    | 6  | 0   | 0  | 70           | 348              |   |  |
| 7:30 AM                    | 0            | 0  | 4  | 0    | 1            | 39  | 2   | 12  | 0                    | 0  | 0  | 24  | 0                    | 2  | 0   | 0  | 84           | 360              |   |  |
| 7:45 AM                    | 0            | 0  | 0  | 0    | 0            | 46  | 2   | 14  | 0                    | 0  | 0  | 25  | 0                    | 8  | 0   | 0  | 95           | 351              |   |  |
| Count Total                | 0            | 0  | 7  | 0    | 3            | 664 | 21  | 178 | 0                    | 0  | 0  | 102 | 0                    | 83 | 0   | 2  | 1,060        | 0                |   |  |
| Peak Hour                  | All          | 0  | 0  | 2    | 0            | 1   | 354 | 5   | 73                   | 0  | 0  | 0   | 16                   | 0  | 14  | 0  | 0            | 465              | 0 |  |
|                            | HV           | 0  | 0  | 2    | 0            | 0   | 2   | 0   | 0                    | 0  | 0  | 0   | 0                    | 0  | 4   | 0  | 0            | 8                | 0 |  |
|                            | HV%          | -  | -  | 100% | -            | 0%  | 1%  | 0%  | 0%                   | -  | -  | -   | 0%                   | -  | 29% | -  | -            | 2%               | 0 |  |

Note: Three-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 5:00 AM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 AM        | 0                    | 1  | 0  | 0  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:30 AM        | 1                    | 0  | 0  | 0  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 AM        | 1                    | 1  | 0  | 1  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:00 AM        | 0                    | 0  | 0  | 3  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:15 AM        | 0                    | 2  | 0  | 0  | 2     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:30 AM        | 0                    | 0  | 0  | 1  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 6:45 AM        | 0                    | 0  | 0  | 2  | 2     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 7:00 AM        | 0                    | 3  | 1  | 3  | 7     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 7:15 AM        | 1                    | 5  | 1  | 1  | 8     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 7:30 AM        | 4                    | 3  | 2  | 0  | 9     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 7:45 AM        | 0                    | 2  | 3  | 0  | 5     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 7                    | 17 | 7  | 11 | 42    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hour      | 2                    | 2  | 0  | 4  | 8     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

| Three-Hour Count Summaries - Heavy Vehicles |              |    |    |    |              |    |    |    |                      |    |    |    |                      |    |    |    |              |                  |  |  |
|---|--------------|----|----|----|--------------|----|----|----|----------------------|----|----|----|----------------------|----|----|----|--------------|------------------|--|--|
| Interval Start                              | Santa Fe Ave |    |    |    | Santa Fe Ave |    |    |    | Charter Oak Ranch Rd |    |    |    | Charter Oak Ranch Rd |    |    |    | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound    |    |    |    | Westbound    |    |    |    | Northbound           |    |    |    | Southbound           |    |    |    |              |                  |  |  |
|   | UT           | LT | TH | RT | UT           | LT | TH | RT | UT                   | LT | TH | RT | UT                   | LT | TH | RT |              |                  |  |  |
| 5:00 AM                                     | 0            | 0  | 0  | 0  | 0            | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0            | 0                |  |  |
| 5:15 AM                                     | 0            | 0  | 0  | 0  | 0            | 1  | 0  | 0  | 0                    | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 1            | 0                |  |  |
| 5:30 AM                                     | 0            | 0  | 1  | 0  | 0            | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 1            | 0                |  |  |
| 5:45 AM                                     | 0            | 0  | 1  | 0  | 0            | 1  | 0  | 0  | 0                    | 0  | 0  | 0  | 0                    | 1  | 0  | 0  | 3            | 5                |  |  |
| 6:00 AM                                     | 0            | 0  | 0  | 0  | 0            | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0                    | 3  | 0  | 0  | 3            | 8                |  |  |
| 6:15 AM                                     | 0            | 0  | 0  | 0  | 0            | 2  | 0  | 0  | 0                    | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 2            | 9                |  |  |
| 6:30 AM                                     | 0            | 0  | 0  | 0  | 0            | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0                    | 1  | 0  | 0  | 1            | 9                |  |  |
| 6:45 AM                                     | 0            | 0  | 0  | 0  | 0            | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0                    | 1  | 0  | 1  | 2            | 8                |  |  |
| 7:00 AM                                     | 0            | 0  | 0  | 0  | 0            | 2  | 0  | 1  | 0                    | 0  | 0  | 1  | 0                    | 2  | 0  | 1  | 7            | 12               |  |  |
| 7:15 AM                                     | 0            | 0  | 1  | 0  | 0            | 2  | 3  | 0  | 0                    | 0  | 0  | 1  | 0                    | 1  | 0  | 0  | 8            | 18               |  |  |
| 7:30 AM                                     | 0            | 0  | 4  | 0  | 0            | 2  | 0  | 1  | 0                    | 0  | 0  | 2  | 0                    | 0  | 0  | 0  | 9            | 26               |  |  |
| 7:45 AM                                     | 0            | 0  | 0  | 0  | 0            | 0  | 1  | 1  | 0                    | 0  | 0  | 3  | 0                    | 0  | 0  | 0  | 5            | 29               |  |  |
| Count Total                                 | 0            | 0  | 7  | 0  | 0            | 10 | 4  | 3  | 0                    | 0  | 0  | 7  | 0                    | 9  | 0  | 2  | 42           | 0                |  |  |
| Peak Hour                                   | 0            | 0  | 2  | 0  | 0            | 2  | 0  | 0  | 0                    | 0  | 0  | 0  | 0                    | 4  | 0  | 0  | 8            | 0                |  |  |

| Three-Hour Count Summaries - Bikes |              |    |    |   |              |    |    |   |                      |    |    |   |                      |    |    |   |              |                  |  |
|------------------------------------|--------------|----|----|---|--------------|----|----|---|----------------------|----|----|---|----------------------|----|----|---|--------------|------------------|--|
| Interval Start                     | Santa Fe Ave |    |    |   | Santa Fe Ave |    |    |   | Charter Oak Ranch Rd |    |    |   | Charter Oak Ranch Rd |    |    |   | 15-min Total | Rolling One Hour |  |
|                                    | Eastbound    |    |    |   | Westbound    |    |    |   | Northbound           |    |    |   | Southbound           |    |    |   |              |                  |  |
|                                    | LT           | TH | RT |   | LT           | TH | RT |   | LT                   | TH | RT |   | LT                   | TH | RT |   |              |                  |  |
| 5:00 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| 5:15 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| 5:30 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| 5:45 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| 6:00 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| 6:15 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| 6:30 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| 6:45 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| 7:00 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| 7:15 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| 7:30 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| 7:45 AM                            | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| Count Total                        | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |
| Peak Hour                          | 0            | 0  | 0  | 0 | 0            | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0                    | 0  | 0  | 0 | 0            | 0                |  |

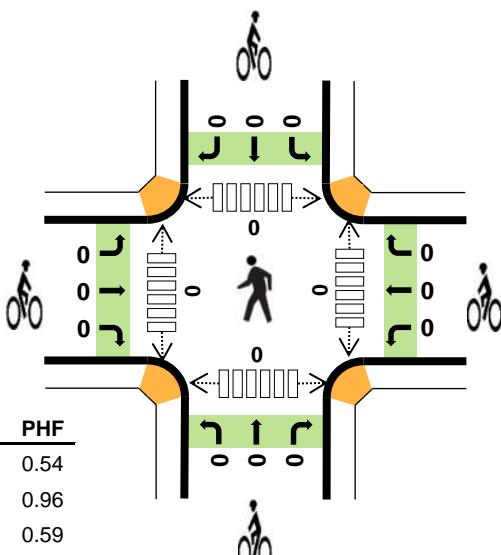
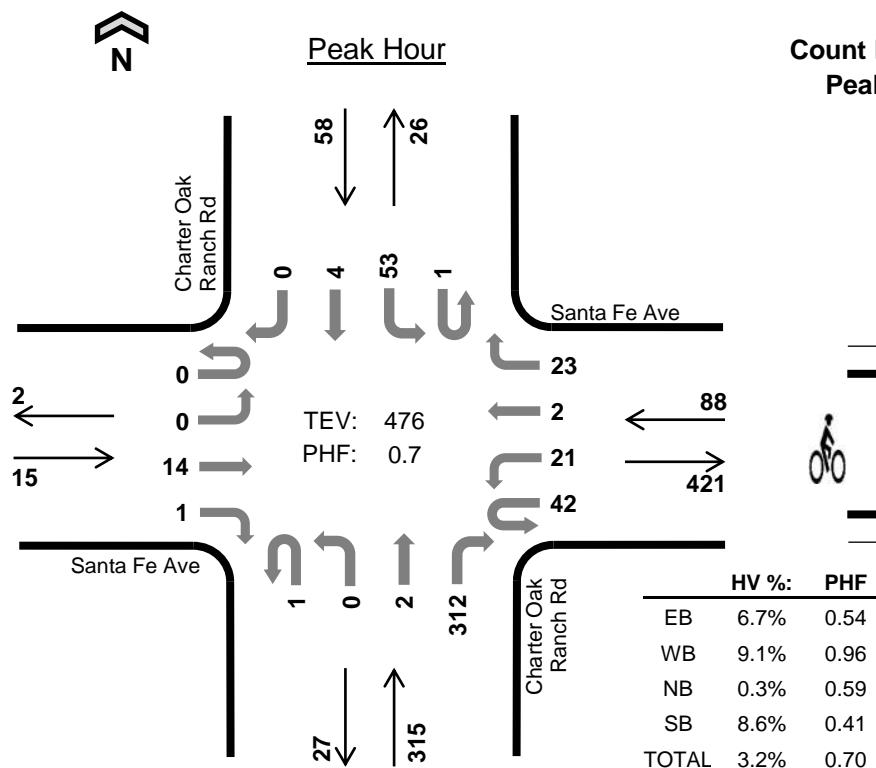
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

# **Charter Oak Ranch Rd Santa Fe Aye**



Date: 06/13/2023

**Count Period:** 4:00 PM to 6:00 PM  
**Peak Hour:** 4:30 PM to 5:30 PM



## Two-Hour Count Summaries

| Interval Start | Santa Fe Ave |    |    |    | Santa Fe Ave |    |     |     | Charter Oak Ranch Rd |    |    |     | Charter Oak Ranch Rd |    |     |    | 15-min Total | Rolling One Hour |   |  |
|----------------|--------------|----|----|----|--------------|----|-----|-----|----------------------|----|----|-----|----------------------|----|-----|----|--------------|------------------|---|--|
|                | Eastbound    |    |    |    | Westbound    |    |     |     | Northbound           |    |    |     | Southbound           |    |     |    |              |                  |   |  |
|                | UT           | LT | TH | RT | UT           | LT | TH  | RT  | UT                   | LT | TH | RT  | UT                   | LT | TH  | RT |              |                  |   |  |
| 4:00 PM        | 0            | 0  | 8  | 0  | 0            | 4  | 1   | 7   | 0                    | 0  | 0  | 52  | 0                    | 21 | 0   | 0  | 93           | 0                |   |  |
| 4:15 PM        | 0            | 0  | 1  | 0  | 1            | 5  | 0   | 5   | 0                    | 0  | 0  | 54  | 0                    | 19 | 0   | 0  | 85           | 0                |   |  |
| 4:30 PM        | 0            | 0  | 6  | 1  | 7            | 6  | 1   | 8   | 1                    | 0  | 1  | 132 | 0                    | 5  | 1   | 0  | 169          | 0                |   |  |
| 4:45 PM        | 0            | 0  | 4  | 0  | 8            | 7  | 0   | 6   | 0                    | 0  | 1  | 78  | 0                    | 8  | 0   | 0  | 112          | 459              |   |  |
| 5:00 PM        | 0            | 0  | 2  | 0  | 11           | 4  | 0   | 7   | 0                    | 0  | 0  | 40  | 1                    | 31 | 3   | 0  | 99           | 465              |   |  |
| 5:15 PM        | 0            | 0  | 2  | 0  | 16           | 4  | 1   | 2   | 0                    | 0  | 0  | 62  | 0                    | 9  | 0   | 0  | 96           | 476              |   |  |
| 5:30 PM        | 0            | 0  | 1  | 0  | 2            | 1  | 1   | 0   | 0                    | 0  | 0  | 59  | 0                    | 7  | 0   | 0  | 71           | 378              |   |  |
| 5:45 PM        | 0            | 0  | 1  | 0  | 3            | 1  | 0   | 1   | 0                    | 0  | 0  | 18  | 0                    | 4  | 0   | 0  | 28           | 294              |   |  |
| Count Total    |              | 0  | 0  | 25 | 1            | 48 | 32  | 4   | 36                   | 1  | 0  | 2   | 495                  | 1  | 104 | 4  | 0            | 753              | 0 |  |
| Peak Hour      | All          | 0  | 0  | 14 | 1            | 42 | 21  | 2   | 23                   | 1  | 0  | 2   | 312                  | 1  | 53  | 4  | 0            | 476              | 0 |  |
|                | HV           | 0  | 0  | 0  | 1            | 3  | 2   | 1   | 2                    | 0  | 0  | 0   | 1                    | 0  | 5   | 0  | 0            | 15               | 0 |  |
|                | HV%          | -  | -  | 0% | 100%         | 7% | 10% | 50% | 9%                   | 0% | -  | 0%  | 0%                   | 0% | 9%  | 0% | -            | 3%               | 0 |  |

*Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.*

| Two-Hour Count Summaries - Heavy Vehicles                         |              |          |          |          |              |          |          |          |                      |          |          |          |                      |          |          |          |              |                  |  |  |
|---|--------------|----------|----------|----------|--------------|----------|----------|----------|----------------------|----------|----------|----------|----------------------|----------|----------|----------|--------------|------------------|--|--|
| Interval Start  | Santa Fe Ave |          |          |          | Santa Fe Ave |          |          |          | Charter Oak Ranch Rd |          |          |          | Charter Oak Ranch Rd |          |          |          | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound    |          |          |          | Westbound    |          |          |          | Northbound           |          |          |          | Southbound           |          |          |          |              |                  |  |  |
|   | UT           | LT       | TH       | RT       | UT           | LT       | TH       | RT       | UT                   | LT       | TH       | RT       | UT                   | LT       | TH       | RT       |              |                  |  |  |
| 4:00 PM   | 0            | 0        | 1        | 0        | 0            | 1        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 4        | 0        | 0        | 6            | 0                |  |  |
| 4:15 PM   | 0            | 0        | 0        | 0        | 0            | 1        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 4        | 0        | 0        | 5            | 0                |  |  |
| <b>4:30 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b>1</b> | <b>1</b>     | <b>0</b> | <b>1</b> | <b>2</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>1</b> | <b>0</b> | <b>0</b> | <b>6</b>     | <b>0</b>         |  |  |
| <b>4:45 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>1</b>     | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b>             | <b>2</b> | <b>0</b> | <b>0</b> | <b>5</b>     | <b>22</b>        |  |  |
| <b>5:00 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>1</b>     | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>2</b> | <b>0</b> | <b>0</b> | <b>4</b>     | <b>20</b>        |  |  |
| <b>5:15 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>15</b>        |  |  |
| 5:30 PM   | 0            | 0        | 1        | 0        | 0            | 0        | 0        | 0        | 0                    | 0        | 0        | 1        | 0                    | 0        | 0        | 0        | 2            | 11               |  |  |
| 5:45 PM   | 0            | 0        | 0        | 0        | 0            | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0                    | 0        | 0        | 0        | 0            | 6                |  |  |
| Count Total   | 0            | 0        | 2        | 1        | 3            | 4        | 1        | 2        | 0                    | 0        | 0        | 2        | 0                    | 13       | 0        | 0        | 28           | 0                |  |  |
| Peak Hour   | <b>0</b>     | <b>0</b> | <b>0</b> | <b>1</b> | <b>3</b>     | <b>2</b> | <b>1</b> | <b>2</b> | <b>0</b>             | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b>             | <b>5</b> | <b>0</b> | <b>0</b> | <b>15</b>    | <b>0</b>         |  |  |
| Two-Hour Count Summaries - Bikes                                  |              |          |          |          |              |          |          |          |                      |          |          |          |                      |          |          |          |              |                  |  |  |
| Interval Start  | Santa Fe Ave |          |          |          | Santa Fe Ave |          |          |          | Charter Oak Ranch Rd |          |          |          | Charter Oak Ranch Rd |          |          |          | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound    |          |          |          | Westbound    |          |          |          | Northbound           |          |          |          | Southbound           |          |          |          |              |                  |  |  |
|   | LT           | TH       | RT       |          | LT           | TH       | RT       |          | LT                   | TH       | RT       |          | LT                   | TH       | RT       |          |              |                  |  |  |
| 4:00 PM   | 0            | 0        | 0        |          | 0            | 0        | 0        |          | 0                    | 0        | 0        |          | 0                    | 0        | 0        |          | 0            | 0                |  |  |
| 4:15 PM   | 0            | 0        | 0        |          | 0            | 0        | 0        |          | 0                    | 0        | 0        |          | 0                    | 0        | 0        |          | 0            | 0                |  |  |
| <b>4:30 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| <b>4:45 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:00 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:15 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| 5:30 PM   | 0            | 0        | 0        |          | 0            | 0        | 0        |          | 0                    | 0        | 0        |          | 0                    | 0        | 0        |          | 0            | 0                |  |  |
| 5:45 PM   | 0            | 0        | 0        |          | 0            | 0        | 0        |          | 0                    | 0        | 0        |          | 0                    | 0        | 0        |          | 0            | 0                |  |  |
| Count Total   | 0            | 0        | 0        |          | 0            | 0        | 0        |          | 0                    | 0        | 0        |          | 0                    | 0        | 0        |          | 0            | 0                |  |  |
| Peak Hour   | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>             | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| Note: U-Turn volumes for bikes are included in Left-Turn, if any. |              |          |          |          |              |          |          |          |                      |          |          |          |                      |          |          |          |              |                  |  |  |

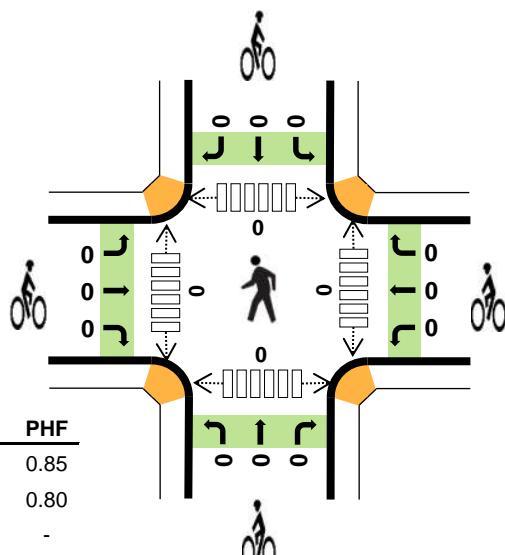
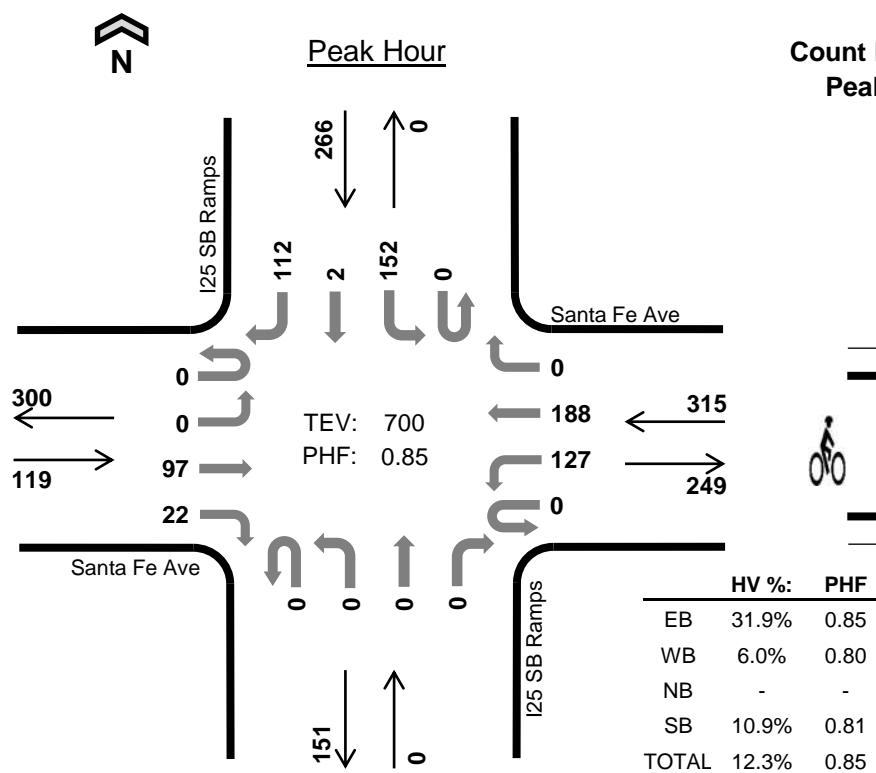
# I25 SB Ramps Santa Fe Ave



Date: 06/13/2023

Count Period: 5:00 AM to 8:00 AM

Peak Hour: 6:45 AM to 7:45 AM



## Three-Hour Count Summaries

| Interval Start | Santa Fe Ave |    |           |     | Santa Fe Ave |    |            |     | I25 SB Ramps |    |    |    | I25 SB Ramps |     |     |     | 15-min Total | Rolling One Hour |  |
|----------------|--------------|----|-----------|-----|--------------|----|------------|-----|--------------|----|----|----|--------------|-----|-----|-----|--------------|------------------|--|
|                | Eastbound    |    | Westbound |     | Northbound   |    | Southbound |     |              |    |    |    |              |     |     |     |              |                  |  |
|                | UT           | LT | TH        | RT  | UT           | LT | TH         | RT  | UT           | LT | TH | RT | UT           | LT  | TH  | RT  |              |                  |  |
| 6:45 AM        | 0            | 0  | 21        | 5   | 0            | 27 | 71         | 0   | 0            | 0  | 0  | 0  | 0            | 47  | 0   | 35  | 206          | 0                |  |
| 7:00 AM        | 0            | 0  | 22        | 4   | 0            | 20 | 34         | 0   | 0            | 0  | 0  | 0  | 0            | 37  | 1   | 28  | 146          | 0                |  |
| 7:15 AM        | 0            | 0  | 23        | 9   | 0            | 38 | 40         | 0   | 0            | 0  | 0  | 0  | 0            | 44  | 1   | 26  | 181          | 0                |  |
| 7:30 AM        | 0            | 0  | 31        | 4   | 0            | 42 | 43         | 0   | 0            | 0  | 0  | 0  | 0            | 24  | 0   | 23  | 167          | 700              |  |
| Peak Hour      | All          | 0  | 0         | 97  | 22           | 0  | 127        | 188 | 0            | 0  | 0  | 0  | 0            | 152 | 2   | 112 | 700          | 0                |  |
|                | HV           | 0  | 0         | 32  | 6            | 0  | 10         | 9   | 0            | 0  | 0  | 0  | 0            | 10  | 1   | 18  | 86           | 0                |  |
|                | HV%          | -  | -         | 33% | 27%          | -  | 8%         | 5%  | -            | -  | -  | -  | -            | 7%  | 50% | 16% | 12%          | 0                |  |

Note: For all three-hour count summary, see next page.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 6:45 AM        | 4                    | 3  | 0  | 7  | 14    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 7:00 AM        | 6                    | 3  | 0  | 5  | 14    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 7:15 AM        | 16                   | 5  | 0  | 10 | 31    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 7:30 AM        | 12                   | 8  | 0  | 7  | 27    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hour      | 38                   | 19 | 0  | 29 | 86    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

| Three-Hour Count Summaries |              |          |           |          |              |           |           |          |              |          |          |          |              |           |          |           |              |                  |  |  |
|----------------------------|--------------|----------|-----------|----------|--------------|-----------|-----------|----------|--------------|----------|----------|----------|--------------|-----------|----------|-----------|--------------|------------------|--|--|
| Interval Start             | Santa Fe Ave |          |           |          | Santa Fe Ave |           |           |          | I25 SB Ramps |          |          |          | I25 SB Ramps |           |          |           | 15-min Total | Rolling One Hour |  |  |
|                            | Eastbound    |          |           |          | Westbound    |           |           |          | Northbound   |          |          |          | Southbound   |           |          |           |              |                  |  |  |
|                            | UT           | LT       | TH        | RT       | UT           | LT        | TH        | RT       | UT           | LT       | TH       | RT       | UT           | LT        | TH       | RT        |              |                  |  |  |
| 5:00 AM                    | 0            | 0        | 3         | 2        | 0            | 10        | 23        | 0        | 0            | 0        | 0        | 0        | 0            | 2         | 0        | 14        | 54           | 0                |  |  |
| 5:15 AM                    | 0            | 0        | 4         | 1        | 0            | 14        | 52        | 0        | 0            | 0        | 0        | 0        | 0            | 5         | 0        | 21        | 97           | 0                |  |  |
| 5:30 AM                    | 0            | 0        | 5         | 2        | 0            | 19        | 87        | 0        | 0            | 0        | 0        | 0        | 0            | 13        | 0        | 42        | 168          | 0                |  |  |
| 5:45 AM                    | 0            | 0        | 13        | 9        | 0            | 40        | 116       | 0        | 0            | 0        | 0        | 0        | 0            | 21        | 0        | 42        | 241          | 560              |  |  |
| 6:00 AM                    | 0            | 0        | 8         | 2        | 0            | 29        | 75        | 0        | 0            | 0        | 0        | 0        | 0            | 8         | 0        | 20        | 142          | 648              |  |  |
| 6:15 AM                    | 0            | 0        | 7         | 2        | 0            | 34        | 37        | 0        | 0            | 0        | 0        | 0        | 0            | 15        | 0        | 15        | 110          | 661              |  |  |
| 6:30 AM                    | 0            | 0        | 12        | 4        | 0            | 40        | 48        | 0        | 0            | 0        | 0        | 0        | 0            | 34        | 0        | 23        | 161          | 654              |  |  |
| <b>6:45 AM</b>             | <b>0</b>     | <b>0</b> | <b>21</b> | <b>5</b> | <b>0</b>     | <b>27</b> | <b>71</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>47</b> | <b>0</b> | <b>35</b> | <b>206</b>   | <b>619</b>       |  |  |
| <b>7:00 AM</b>             | <b>0</b>     | <b>0</b> | <b>22</b> | <b>4</b> | <b>0</b>     | <b>20</b> | <b>34</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>37</b> | <b>1</b> | <b>28</b> | <b>146</b>   | <b>623</b>       |  |  |
| <b>7:15 AM</b>             | <b>0</b>     | <b>0</b> | <b>23</b> | <b>9</b> | <b>0</b>     | <b>38</b> | <b>40</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>44</b> | <b>1</b> | <b>26</b> | <b>181</b>   | <b>694</b>       |  |  |
| <b>7:30 AM</b>             | <b>0</b>     | <b>0</b> | <b>31</b> | <b>4</b> | <b>0</b>     | <b>42</b> | <b>43</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>24</b> | <b>0</b> | <b>23</b> | <b>167</b>   | <b>700</b>       |  |  |
| 7:45 AM                    | 0            | 0        | 41        | 5        | 0            | 33        | 58        | 0        | 0            | 0        | 0        | 0        | 0            | 31        | 0        | 19        | 187          | 681              |  |  |
| Count Total                | 0            | 0        | 190       | 49       | 0            | 346       | 684       | 0        | 0            | 0        | 0        | 0        | 0            | 281       | 2        | 308       | 1,860        | 0                |  |  |
| Peak Hour                  | All          | 0        | 0         | 97       | 22           | 0         | 127       | 188      | 0            | 0        | 0        | 0        | 0            | 152       | 2        | 112       | 700          | 0                |  |  |
|                            | HV           | 0        | 0         | 32       | 6            | 0         | 10        | 9        | 0            | 0        | 0        | 0        | 0            | 10        | 1        | 18        | 86           | 0                |  |  |
|                            | HV%          | -        | -         | 33%      | 27%          | -         | 8%        | 5%       | -            | -        | -        | -        | -            | 7%        | 50%      | 16%       | 12%          | 0                |  |  |

Note: Three-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |          |          |           |           | Bicycles |          |          |          |          | Pedestrians (Crossing Leg) |          |          |          |          |
|----------------|----------------------|----------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|----------|
|                | EB                   | WB       | NB       | SB        | Total     | EB       | WB       | NB       | SB       | Total    | East                       | West     | North    | South    | Total    |
| 5:00 AM        | 4                    | 1        | 0        | 1         | 6         | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 5:15 AM        | 1                    | 1        | 0        | 2         | 4         | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 5:30 AM        | 1                    | 2        | 0        | 4         | 7         | 0        | 0        | 0        | 0        | 0        | 0                          | 1        | 0        | 1        | 2        |
| 5:45 AM        | 5                    | 3        | 0        | 2         | 10        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 6:00 AM        | 4                    | 1        | 0        | 2         | 7         | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 1        | 0        |
| 6:15 AM        | 4                    | 6        | 0        | 2         | 12        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 6:30 AM        | 4                    | 0        | 0        | 5         | 9         | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| <b>6:45 AM</b> | <b>4</b>             | <b>3</b> | <b>0</b> | <b>7</b>  | <b>14</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>7:00 AM</b> | <b>6</b>             | <b>3</b> | <b>0</b> | <b>5</b>  | <b>14</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>7:15 AM</b> | <b>16</b>            | <b>5</b> | <b>0</b> | <b>10</b> | <b>31</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>7:30 AM</b> | <b>12</b>            | <b>8</b> | <b>0</b> | <b>7</b>  | <b>27</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| 7:45 AM        | 11                   | 13       | 0        | 6         | 30        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| Count Total    | 72                   | 46       | 0        | 53        | 171       | 0        | 0        | 0        | 0        | 0        | 0                          | 1        | 1        | 1        | 3        |
| Peak Hour      | 38                   | 19       | 0        | 29        | 86        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |

| Three-Hour Count Summaries - Heavy Vehicles |              |          |           |          |              |           |          |          |              |          |          |          |              |           |          |           |              |                  |  |  |
|---|--------------|----------|-----------|----------|--------------|-----------|----------|----------|--------------|----------|----------|----------|--------------|-----------|----------|-----------|--------------|------------------|--|--|
| Interval Start                              | Santa Fe Ave |          |           |          | Santa Fe Ave |           |          |          | I25 SB Ramps |          |          |          | I25 SB Ramps |           |          |           | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound    |          |           |          | Westbound    |           |          |          | Northbound   |          |          |          | Southbound   |           |          |           |              |                  |  |  |
|   | UT           | LT       | TH        | RT       | UT           | LT        | TH       | RT       | UT           | LT       | TH       | RT       | UT           | LT        | TH       | RT        |              |                  |  |  |
| 5:00 AM                                     | 0            | 0        | 3         | 1        | 0            | 0         | 1        | 0        | 0            | 0        | 0        | 0        | 0            | 1         | 0        | 0         | 6            | 0                |  |  |
| 5:15 AM                                     | 0            | 0        | 1         | 0        | 0            | 0         | 1        | 0        | 0            | 0        | 0        | 0        | 0            | 0         | 0        | 2         | 4            | 0                |  |  |
| 5:30 AM                                     | 0            | 0        | 0         | 1        | 0            | 2         | 0        | 0        | 0            | 0        | 0        | 0        | 0            | 1         | 0        | 3         | 7            | 0                |  |  |
| 5:45 AM                                     | 0            | 0        | 2         | 3        | 0            | 1         | 2        | 0        | 0            | 0        | 0        | 0        | 0            | 1         | 0        | 1         | 10           | 27               |  |  |
| 6:00 AM                                     | 0            | 0        | 4         | 0        | 0            | 0         | 1        | 0        | 0            | 0        | 0        | 0        | 0            | 1         | 0        | 1         | 7            | 28               |  |  |
| 6:15 AM                                     | 0            | 0        | 2         | 2        | 0            | 2         | 4        | 0        | 0            | 0        | 0        | 0        | 0            | 2         | 0        | 0         | 12           | 36               |  |  |
| 6:30 AM                                     | 0            | 0        | 2         | 2        | 0            | 0         | 0        | 0        | 0            | 0        | 0        | 0        | 0            | 5         | 0        | 0         | 9            | 38               |  |  |
| <b>6:45 AM</b>                              | <b>0</b>     | <b>0</b> | <b>3</b>  | <b>1</b> | <b>0</b>     | <b>2</b>  | <b>1</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>4</b>  | <b>0</b> | <b>3</b>  | <b>14</b>    | <b>42</b>        |  |  |
| <b>7:00 AM</b>                              | <b>0</b>     | <b>0</b> | <b>5</b>  | <b>1</b> | <b>0</b>     | <b>1</b>  | <b>2</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>1</b>  | <b>1</b> | <b>3</b>  | <b>14</b>    | <b>49</b>        |  |  |
| <b>7:15 AM</b>                              | <b>0</b>     | <b>0</b> | <b>14</b> | <b>2</b> | <b>0</b>     | <b>0</b>  | <b>5</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>4</b>  | <b>0</b> | <b>6</b>  | <b>31</b>    | <b>68</b>        |  |  |
| <b>7:30 AM</b>                              | <b>0</b>     | <b>0</b> | <b>10</b> | <b>2</b> | <b>0</b>     | <b>7</b>  | <b>1</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>1</b>  | <b>0</b> | <b>6</b>  | <b>27</b>    | <b>86</b>        |  |  |
| <b>7:45 AM</b>                              | <b>0</b>     | <b>0</b> | <b>10</b> | <b>1</b> | <b>0</b>     | <b>7</b>  | <b>6</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>2</b>  | <b>0</b> | <b>4</b>  | <b>30</b>    | <b>102</b>       |  |  |
| Count Total                                 | 0            | 0        | 56        | 16       | 0            | 22        | 24       | 0        | 0            | 0        | 0        | 0        | 0            | 23        | 1        | 29        | 171          | 0                |  |  |
| <b>Peak Hour</b>                            | <b>0</b>     | <b>0</b> | <b>32</b> | <b>6</b> | <b>0</b>     | <b>10</b> | <b>9</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>10</b> | <b>1</b> | <b>18</b> | <b>86</b>    | <b>0</b>         |  |  |
| Three-Hour Count Summaries - Bikes          |              |          |           |          |              |           |          |          |              |          |          |          |              |           |          |           |              |                  |  |  |
| Interval Start                              | Santa Fe Ave |          |           |          | Santa Fe Ave |           |          |          | I25 SB Ramps |          |          |          | I25 SB Ramps |           |          |           | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound    |          |           |          | Westbound    |           |          |          | Northbound   |          |          |          | Southbound   |           |          |           |              |                  |  |  |
|   | LT           | TH       | RT        |          | LT           | TH        | RT       |          | LT           | TH       | RT       |          | LT           | TH        | RT       |           |              |                  |  |  |
| 5:00 AM                                     | 0            | 0        | 0         |          | 0            | 0         | 0        |          | 0            | 0        | 0        |          | 0            | 0         | 0        |           | 0            | 0                |  |  |
| 5:15 AM                                     | 0            | 0        | 0         |          | 0            | 0         | 0        |          | 0            | 0        | 0        |          | 0            | 0         | 0        |           | 0            | 0                |  |  |
| 5:30 AM                                     | 0            | 0        | 0         |          | 0            | 0         | 0        |          | 0            | 0        | 0        |          | 0            | 0         | 0        |           | 0            | 0                |  |  |
| 5:45 AM                                     | 0            | 0        | 0         |          | 0            | 0         | 0        |          | 0            | 0        | 0        |          | 0            | 0         | 0        |           | 0            | 0                |  |  |
| 6:00 AM                                     | 0            | 0        | 0         |          | 0            | 0         | 0        |          | 0            | 0        | 0        |          | 0            | 0         | 0        |           | 0            | 0                |  |  |
| 6:15 AM                                     | 0            | 0        | 0         |          | 0            | 0         | 0        |          | 0            | 0        | 0        |          | 0            | 0         | 0        |           | 0            | 0                |  |  |
| 6:30 AM                                     | 0            | 0        | 0         |          | 0            | 0         | 0        |          | 0            | 0        | 0        |          | 0            | 0         | 0        |           | 0            | 0                |  |  |
| <b>6:45 AM</b>                              | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b>  | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>  | <b>0</b> |           | <b>0</b>     | <b>0</b>         |  |  |
| <b>7:00 AM</b>                              | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b>  | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>  | <b>0</b> |           | <b>0</b>     | <b>0</b>         |  |  |
| <b>7:15 AM</b>                              | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b>  | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>  | <b>0</b> |           | <b>0</b>     | <b>0</b>         |  |  |
| <b>7:30 AM</b>                              | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b>  | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>  | <b>0</b> |           | <b>0</b>     | <b>0</b>         |  |  |
| <b>7:45 AM</b>                              | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b>  | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>  | <b>0</b> |           | <b>0</b>     | <b>0</b>         |  |  |
| Count Total                                 | 0            | 0        | 0         |          | 0            | 0         | 0        |          | 0            | 0        | 0        |          | 0            | 0         | 0        |           | 0            | 0                |  |  |
| <b>Peak Hour</b>                            | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b>  | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>  | <b>0</b> |           | <b>0</b>     | <b>0</b>         |  |  |

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

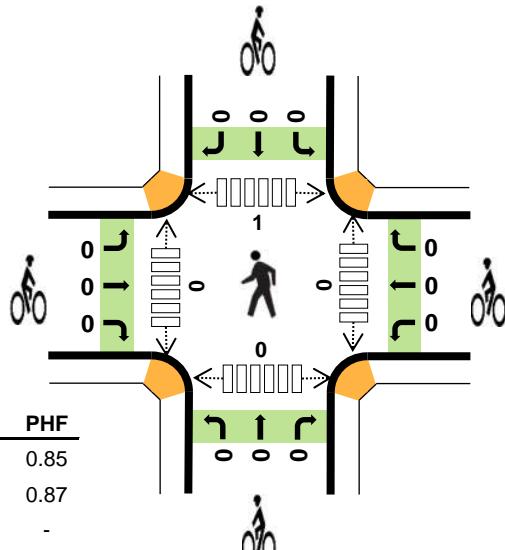
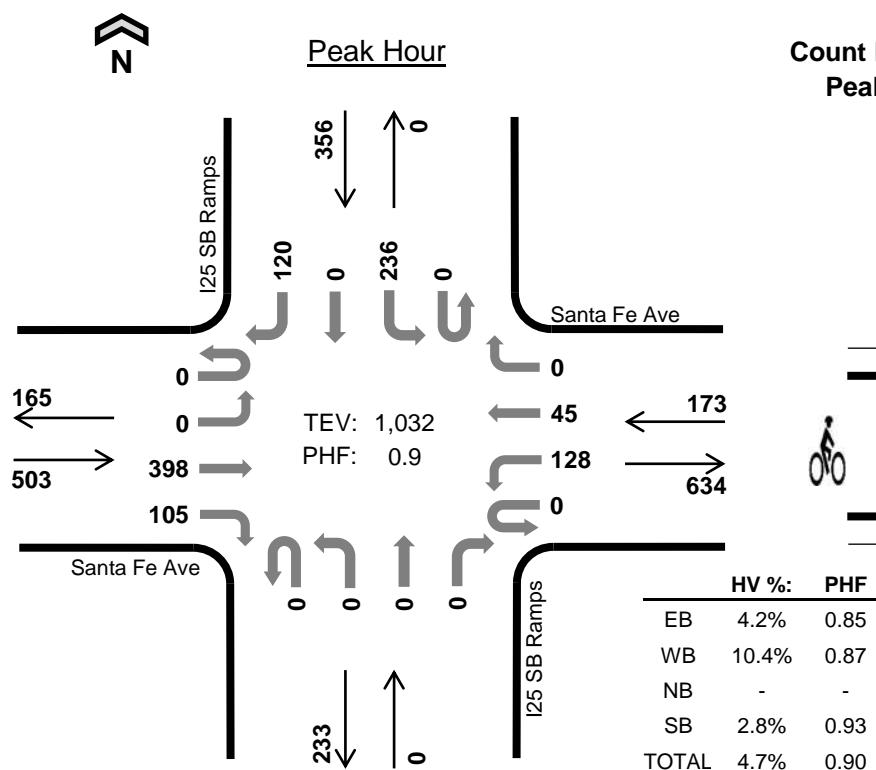
# I25 SB Ramps Santa Fe Ave



Date: 06/13/2023

Count Period: 4:00 PM to 6:00 PM

Peak Hour: 4:30 PM to 5:30 PM



## Two-Hour Count Summaries

| Interval Start | Santa Fe Ave |          |            |           | Santa Fe Ave |           |            |          | I25 SB Ramps |          |          |          | I25 SB Ramps |           |          |           | 15-min Total | Rolling One Hour |
|----------------|--------------|----------|------------|-----------|--------------|-----------|------------|----------|--------------|----------|----------|----------|--------------|-----------|----------|-----------|--------------|------------------|
|                | Eastbound    |          | Westbound  |           | Northbound   |           | Southbound |          | UT           | LT       | TH       | RT       | UT           | LT        | TH       | RT        |              |                  |
|                | UT           | LT       | TH         | RT        | UT           | LT        | TH         | RT       | UT           | LT       | TH       | RT       | UT           | LT        | TH       | RT        |              |                  |
| 4:00 PM        | 0            | 0        | 75         | 23        | 0            | 31        | 11         | 0        | 0            | 0        | 0        | 0        | 0            | 97        | 0        | 11        | 248          | 0                |
| 4:15 PM        | 0            | 0        | 74         | 15        | 0            | 36        | 8          | 0        | 0            | 0        | 0        | 0        | 0            | 70        | 0        | 11        | 214          | 0                |
| <b>4:30 PM</b> | <b>0</b>     | <b>0</b> | <b>114</b> | <b>34</b> | <b>0</b>     | <b>32</b> | <b>11</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>75</b> | <b>0</b> | <b>21</b> | <b>287</b>   | <b>0</b>         |
| <b>4:45 PM</b> | <b>0</b>     | <b>0</b> | <b>89</b>  | <b>27</b> | <b>0</b>     | <b>29</b> | <b>21</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>50</b> | <b>0</b> | <b>42</b> | <b>258</b>   | <b>1,007</b>     |
| <b>5:00 PM</b> | <b>0</b>     | <b>0</b> | <b>105</b> | <b>22</b> | <b>0</b>     | <b>32</b> | <b>8</b>   | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>57</b> | <b>0</b> | <b>27</b> | <b>251</b>   | <b>1,010</b>     |
| <b>5:15 PM</b> | <b>0</b>     | <b>0</b> | <b>90</b>  | <b>22</b> | <b>0</b>     | <b>35</b> | <b>5</b>   | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>54</b> | <b>0</b> | <b>30</b> | <b>236</b>   | <b>1,032</b>     |
| 5:30 PM        | 0            | 0        | 104        | 26        | 0            | 27        | 5          | 0        | 0            | 0        | 0        | 0        | 0            | 58        | 0        | 18        | 238          | 983              |
| 5:45 PM        | 0            | 0        | 66         | 4         | 0            | 27        | 4          | 0        | 0            | 0        | 0        | 0        | 0            | 68        | 0        | 36        | 205          | 930              |
| Count Total    | 0            | 0        | 717        | 173       | 0            | 249       | 73         | 0        | 0            | 0        | 0        | 0        | 0            | 529       | 0        | 196       | 1,937        | 0                |
| Peak Hour      | All          | 0        | 0          | 398       | 105          | 0         | 128        | 45       | 0            | 0        | 0        | 0        | 0            | 236       | 0        | 120       | 1,032        | 0                |
|                | HV           | 0        | 0          | 12        | 9            | 0         | 6          | 12       | 0            | 0        | 0        | 0        | 0            | 2         | 0        | 8         | 49           | 0                |
|                | HV%          | -        | -          | 3%        | 9%           | -         | 5%         | 27%      | -            | -        | -        | -        | -            | 1%        | -        | 7%        | 5%           | 0                |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |           |          |           |           | Bicycles |          |          |          |          | Pedestrians (Crossing Leg) |          |          |          |          |
|----------------|----------------------|-----------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|----------|
|                | EB                   | WB        | NB       | SB        | Total     | EB       | WB       | NB       | SB       | Total    | East                       | West     | North    | South    | Total    |
| 4:00 PM        | 9                    | 2         | 0        | 5         | 16        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 4:15 PM        | 10                   | 6         | 0        | 3         | 19        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| <b>4:30 PM</b> | <b>5</b>             | <b>3</b>  | <b>0</b> | <b>2</b>  | <b>10</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>4:45 PM</b> | <b>4</b>             | <b>10</b> | <b>0</b> | <b>5</b>  | <b>19</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>5:00 PM</b> | <b>7</b>             | <b>2</b>  | <b>0</b> | <b>2</b>  | <b>11</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>1</b> | <b>0</b> | <b>1</b> |
| <b>5:15 PM</b> | <b>5</b>             | <b>3</b>  | <b>0</b> | <b>1</b>  | <b>9</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| 5:30 PM        | 7                    | 2         | 0        | 6         | 15        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 5:45 PM        | 5                    | 1         | 0        | 4         | 10        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| Count Total    | 52                   | 29        | 0        | 28        | 109       | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 1        | 0        | 1        |
| Peak Hour      | <b>21</b>            | <b>18</b> | <b>0</b> | <b>10</b> | <b>49</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>1</b> | <b>0</b> | <b>1</b> |

| Two-Hour Count Summaries - Heavy Vehicles                         |              |          |           |          |              |          |           |          |              |          |          |          |              |          |          |          |              |                  |  |  |
|---|--------------|----------|-----------|----------|--------------|----------|-----------|----------|--------------|----------|----------|----------|--------------|----------|----------|----------|--------------|------------------|--|--|
| Interval Start  | Santa Fe Ave |          |           |          | Santa Fe Ave |          |           |          | I25 SB Ramps |          |          |          | I25 SB Ramps |          |          |          | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound    |          |           |          | Westbound    |          |           |          | Northbound   |          |          |          | Southbound   |          |          |          |              |                  |  |  |
|   | UT           | LT       | TH        | RT       | UT           | LT       | TH        | RT       | UT           | LT       | TH       | RT       | UT           | LT       | TH       | RT       |              |                  |  |  |
| 4:00 PM   | 0            | 0        | 5         | 4        | 0            | 1        | 1         | 0        | 0            | 0        | 0        | 0        | 0            | 1        | 0        | 4        | 16           | 0                |  |  |
| 4:15 PM   | 0            | 0        | 9         | 1        | 0            | 1        | 5         | 0        | 0            | 0        | 0        | 0        | 0            | 1        | 0        | 2        | 19           | 0                |  |  |
| <b>4:30 PM</b>  | <b>0</b>     | <b>0</b> | <b>2</b>  | <b>3</b> | <b>0</b>     | <b>2</b> | <b>1</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>2</b> | <b>10</b>    | <b>0</b>         |  |  |
| <b>4:45 PM</b>  | <b>0</b>     | <b>0</b> | <b>4</b>  | <b>0</b> | <b>0</b>     | <b>1</b> | <b>9</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>2</b> | <b>0</b> | <b>3</b> | <b>19</b>    | <b>64</b>        |  |  |
| <b>5:00 PM</b>  | <b>0</b>     | <b>0</b> | <b>3</b>  | <b>4</b> | <b>0</b>     | <b>0</b> | <b>2</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>2</b> | <b>11</b>    | <b>59</b>        |  |  |
| <b>5:15 PM</b>  | <b>0</b>     | <b>0</b> | <b>3</b>  | <b>2</b> | <b>0</b>     | <b>3</b> | <b>0</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>1</b> | <b>9</b>     | <b>49</b>        |  |  |
| 5:30 PM   | 0            | 0        | 4         | 3        | 0            | 0        | 2         | 0        | 0            | 0        | 0        | 0        | 0            | 0        | 0        | 6        | 15           | 54               |  |  |
| 5:45 PM   | 0            | 0        | 4         | 1        | 0            | 0        | 1         | 0        | 0            | 0        | 0        | 0        | 0            | 0        | 0        | 4        | 10           | 45               |  |  |
| Count Total   | 0            | 0        | 34        | 18       | 0            | 8        | 21        | 0        | 0            | 0        | 0        | 0        | 0            | 4        | 0        | 24       | 109          | 0                |  |  |
| Peak Hour   | <b>0</b>     | <b>0</b> | <b>12</b> | <b>9</b> | <b>0</b>     | <b>6</b> | <b>12</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>     | <b>2</b> | <b>0</b> | <b>8</b> | <b>49</b>    | <b>0</b>         |  |  |
| Two-Hour Count Summaries - Bikes                                  |              |          |           |          |              |          |           |          |              |          |          |          |              |          |          |          |              |                  |  |  |
| Interval Start  | Santa Fe Ave |          |           |          | Santa Fe Ave |          |           |          | I25 SB Ramps |          |          |          | I25 SB Ramps |          |          |          | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound    |          |           |          | Westbound    |          |           |          | Northbound   |          |          |          | Southbound   |          |          |          |              |                  |  |  |
|   | LT           | TH       | RT        |          | LT           | TH       | RT        |          | LT           | TH       | RT       |          | LT           | TH       | RT       |          |              |                  |  |  |
| 4:00 PM   | 0            | 0        | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |          | 0            | 0        | 0        |          | 0            | 0                |  |  |
| 4:15 PM   | 0            | 0        | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |          | 0            | 0        | 0        |          | 0            | 0                |  |  |
| <b>4:30 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| <b>4:45 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:00 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| <b>5:15 PM</b>  | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| 5:30 PM   | 0            | 0        | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |          | 0            | 0        | 0        |          | 0            | 0                |  |  |
| 5:45 PM   | 0            | 0        | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |          | 0            | 0        | 0        |          | 0            | 0                |  |  |
| Count Total   | 0            | 0        | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |          | 0            | 0        | 0        |          | 0            | 0                |  |  |
| Peak Hour   | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b> | <b>0</b>  |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b> | <b>0</b> |          | <b>0</b>     | <b>0</b>         |  |  |
| Note: U-Turn volumes for bikes are included in Left-Turn, if any. |              |          |           |          |              |          |           |          |              |          |          |          |              |          |          |          |              |                  |  |  |

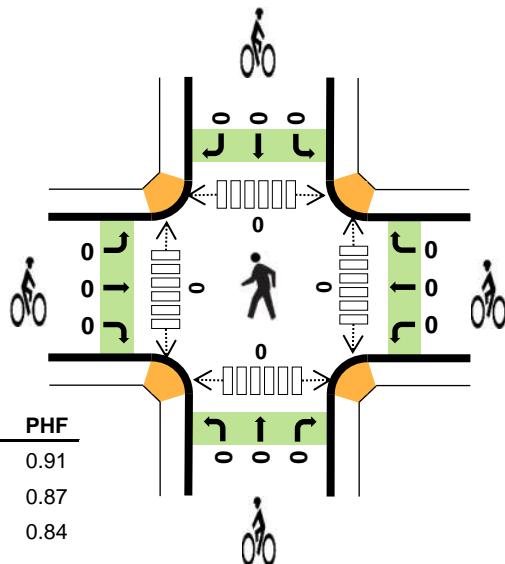
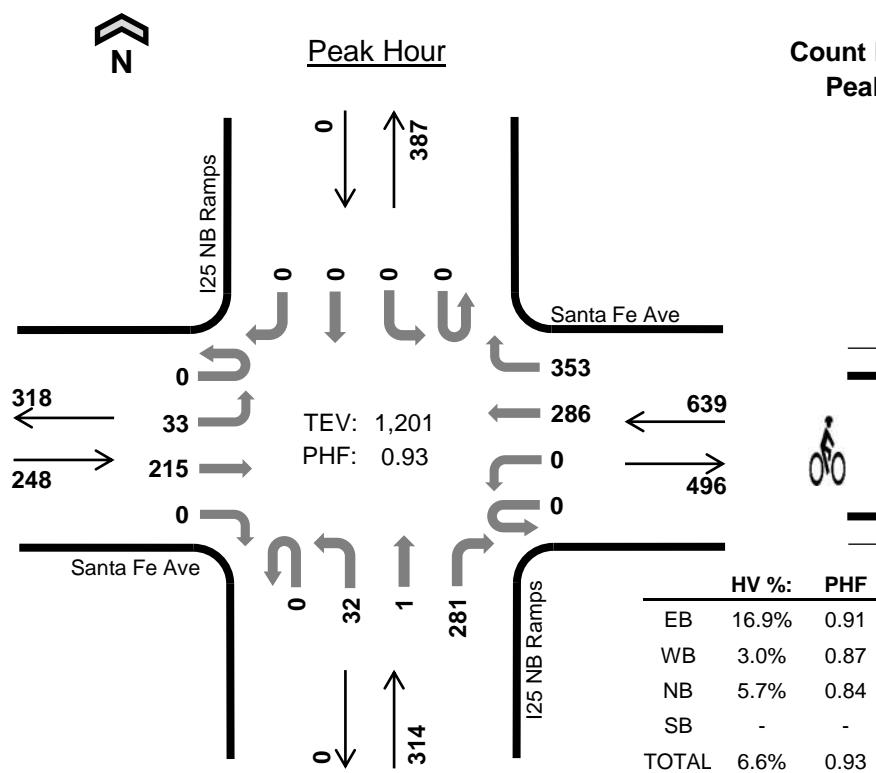
# I25 NB Ramps Santa Fe Ave



Date: 06/13/2023

Count Period: 5:00 AM to 8:00 AM

Peak Hour: 6:45 AM to 7:45 AM



## Three-Hour Count Summaries

| Interval Start | Santa Fe Ave |    |     |     | Santa Fe Ave |    |    |     | I25 NB Ramps |    |    |    | I25 NB Ramps |    |    |    | 15-min Total | Rolling One Hour |   |
|----------------|--------------|----|-----|-----|--------------|----|----|-----|--------------|----|----|----|--------------|----|----|----|--------------|------------------|---|
|                | Eastbound    |    |     |     | Westbound    |    |    |     | Northbound   |    |    |    | Southbound   |    |    |    |              |                  |   |
|                | UT           | LT | TH  | RT  | UT           | LT | TH | RT  | UT           | LT | TH | RT | UT           | LT | TH | RT |              |                  |   |
| 6:45 AM        | 0            | 8  | 60  | 0   | 0            | 0  | 91 | 93  | 0            | 9  | 0  | 63 | 0            | 0  | 0  | 0  | 324          | 0                |   |
| 7:00 AM        | 0            | 8  | 52  | 0   | 0            | 0  | 49 | 98  | 0            | 9  | 0  | 69 | 0            | 0  | 0  | 0  | 285          | 0                |   |
| 7:15 AM        | 0            | 11 | 53  | 0   | 0            | 0  | 67 | 83  | 0            | 7  | 1  | 86 | 0            | 0  | 0  | 0  | 308          | 0                |   |
| 7:30 AM        | 0            | 6  | 50  | 0   | 0            | 0  | 79 | 79  | 0            | 7  | 0  | 63 | 0            | 0  | 0  | 0  | 284          | 1,201            |   |
| Peak Hour      | All          | 0  | 33  | 215 | 0            | 0  | 0  | 286 | 353          | 0  | 32 | 1  | 281          | 0  | 0  | 0  | 0            | 1,201            | 0 |
|                | HV           | 0  | 20  | 22  | 0            | 0  | 0  | 15  | 4            | 0  | 3  | 0  | 15           | 0  | 0  | 0  | 0            | 79               | 0 |
|                | HV%          | -  | 61% | 10% | -            | -  | 5% | 1%  | -            | 9% | 0% | 5% | -            | -  | -  | -  | 7%           | 0                |   |

Note: For all three-hour count summary, see next page.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    | Pedestrians (Crossing Leg) |      |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|----------------------------|------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total                      | East | West | North | South | Total |
| 6:45 AM        | 7                    | 4  | 0  | 0  | 11    | 0        | 0  | 0  | 0  | 0                          | 0    | 0    | 0     | 0     | 0     |
| 7:00 AM        | 5                    | 2  | 4  | 0  | 11    | 0        | 0  | 0  | 0  | 0                          | 0    | 0    | 0     | 0     | 0     |
| 7:15 AM        | 18                   | 6  | 8  | 0  | 32    | 0        | 0  | 0  | 0  | 0                          | 0    | 0    | 0     | 0     | 0     |
| 7:30 AM        | 12                   | 7  | 6  | 0  | 25    | 0        | 0  | 0  | 0  | 0                          | 0    | 0    | 0     | 0     | 0     |
| Peak Hour      | 42                   | 19 | 18 | 0  | 79    | 0        | 0  | 0  | 0  | 0                          | 0    | 0    | 0     | 0     | 0     |

| Three-Hour Count Summaries |              |           |           |          |              |          |           |           |              |          |          |           |              |          |          |          |              |                  |   |  |
|----------------------------|--------------|-----------|-----------|----------|--------------|----------|-----------|-----------|--------------|----------|----------|-----------|--------------|----------|----------|----------|--------------|------------------|---|--|
| Interval Start             | Santa Fe Ave |           |           |          | Santa Fe Ave |          |           |           | I25 NB Ramps |          |          |           | I25 NB Ramps |          |          |          | 15-min Total | Rolling One Hour |   |  |
|                            | Eastbound    |           |           |          | Westbound    |          |           |           | Northbound   |          |          |           | Southbound   |          |          |          |              |                  |   |  |
|                            | UT           | LT        | TH        | RT       | UT           | LT       | TH        | RT        | UT           | LT       | TH       | RT        | UT           | LT       | TH       | RT       |              |                  |   |  |
| 5:00 AM                    | 0            | 2         | 4         | 0        | 0            | 0        | 25        | 28        | 0            | 5        | 1        | 4         | 0            | 0        | 0        | 0        | 69           | 0                |   |  |
| 5:15 AM                    | 0            | 2         | 7         | 0        | 0            | 0        | 47        | 43        | 0            | 14       | 0        | 11        | 0            | 0        | 0        | 0        | 124          | 0                |   |  |
| 5:30 AM                    | 0            | 2         | 16        | 0        | 0            | 0        | 75        | 66        | 0            | 31       | 0        | 15        | 0            | 0        | 0        | 0        | 205          | 0                |   |  |
| 5:45 AM                    | 0            | 11        | 22        | 0        | 0            | 0        | 122       | 74        | 0            | 33       | 0        | 10        | 0            | 0        | 0        | 0        | 272          | 670              |   |  |
| 6:00 AM                    | 0            | 5         | 12        | 0        | 0            | 0        | 84        | 92        | 0            | 13       | 0        | 15        | 0            | 0        | 0        | 0        | 221          | 822              |   |  |
| 6:15 AM                    | 0            | 4         | 19        | 0        | 0            | 0        | 63        | 75        | 0            | 9        | 0        | 22        | 0            | 0        | 0        | 0        | 192          | 890              |   |  |
| 6:30 AM                    | 0            | 11        | 35        | 0        | 0            | 0        | 74        | 98        | 0            | 20       | 0        | 40        | 0            | 0        | 0        | 0        | 278          | 963              |   |  |
| <b>6:45 AM</b>             | <b>0</b>     | <b>8</b>  | <b>60</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>91</b> | <b>93</b> | <b>0</b>     | <b>9</b> | <b>0</b> | <b>63</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>324</b>   | <b>1,015</b>     |   |  |
| <b>7:00 AM</b>             | <b>0</b>     | <b>8</b>  | <b>52</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>49</b> | <b>98</b> | <b>0</b>     | <b>9</b> | <b>0</b> | <b>69</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>285</b>   | <b>1,079</b>     |   |  |
| <b>7:15 AM</b>             | <b>0</b>     | <b>11</b> | <b>53</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>67</b> | <b>83</b> | <b>0</b>     | <b>7</b> | <b>1</b> | <b>86</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>308</b>   | <b>1,195</b>     |   |  |
| <b>7:30 AM</b>             | <b>0</b>     | <b>6</b>  | <b>50</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>79</b> | <b>79</b> | <b>0</b>     | <b>7</b> | <b>0</b> | <b>63</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>284</b>   | <b>1,201</b>     |   |  |
| 7:45 AM                    | 0            | 10        | 60        | 0        | 0            | 0        | 84        | 52        | 0            | 12       | 0        | 83        | 0            | 0        | 0        | 0        | 301          | 1,178            |   |  |
| Count Total                | 0            | 80        | 390       | 0        | 0            | 0        | 860       | 881       | 0            | 169      | 2        | 481       | 0            | 0        | 0        | 0        | 2,863        | 0                |   |  |
| Peak Hour                  | All          | 0         | 33        | 215      | 0            | 0        | 0         | 286       | 353          | 0        | 32       | 1         | 281          | 0        | 0        | 0        | 0            | 1,201            | 0 |  |
|                            | HV           | 0         | 20        | 22       | 0            | 0        | 0         | 15        | 4            | 0        | 3        | 0         | 15           | 0        | 0        | 0        | 0            | 79               | 0 |  |
|                            | HV%          | -         | 61%       | 10%      | -            | -        | 5%        | 1%        | -            | 9%       | 0%       | 5%        | -            | -        | -        | -        | 7%           | 0                |   |  |

Note: Three-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |          |          |          |           | Bicycles |          |          |          |          | Pedestrians (Crossing Leg) |          |          |          |          |
|----------------|----------------------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|----------|
|                | EB                   | WB       | NB       | SB       | Total     | EB       | WB       | NB       | SB       | Total    | East                       | West     | North    | South    | Total    |
| 5:00 AM        | 4                    | 0        | 1        | 0        | 5         | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 5:15 AM        | 1                    | 0        | 2        | 0        | 3         | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 5:30 AM        | 1                    | 2        | 1        | 0        | 4         | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 5:45 AM        | 3                    | 5        | 1        | 0        | 9         | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 6:00 AM        | 5                    | 4        | 5        | 0        | 14        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 1        | 0        | 1        |
| 6:15 AM        | 5                    | 6        | 3        | 0        | 14        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 6:30 AM        | 7                    | 3        | 3        | 0        | 13        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| <b>6:45 AM</b> | <b>7</b>             | <b>4</b> | <b>0</b> | <b>0</b> | <b>11</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>7:00 AM</b> | <b>5</b>             | <b>2</b> | <b>4</b> | <b>0</b> | <b>11</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>7:15 AM</b> | <b>18</b>            | <b>6</b> | <b>8</b> | <b>0</b> | <b>32</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>7:30 AM</b> | <b>12</b>            | <b>7</b> | <b>6</b> | <b>0</b> | <b>25</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| 7:45 AM        | 11                   | 12       | 16       | 0        | 39        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| Count Total    | 79                   | 51       | 50       | 0        | 180       | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 1        | 0        | 1        |
| Peak Hour      | 42                   | 19       | 18       | 0        | 79        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |

| Three-Hour Count Summaries - Heavy Vehicles |              |           |           |          |              |          |           |          |              |          |          |           |              |          |          |          |              |                  |  |  |
|---|--------------|-----------|-----------|----------|--------------|----------|-----------|----------|--------------|----------|----------|-----------|--------------|----------|----------|----------|--------------|------------------|--|--|
| Interval Start                              | Santa Fe Ave |           |           |          | Santa Fe Ave |          |           |          | I25 NB Ramps |          |          |           | I25 NB Ramps |          |          |          | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound    |           |           |          | Westbound    |          |           |          | Northbound   |          |          |           | Southbound   |          |          |          |              |                  |  |  |
|   | UT           | LT        | TH        | RT       | UT           | LT       | TH        | RT       | UT           | LT       | TH       | RT        | UT           | LT       | TH       | RT       |              |                  |  |  |
| 5:00 AM                                     | 0            | 1         | 3         | 0        | 0            | 0        | 0         | 0        | 0            | 1        | 0        | 0         | 0            | 0        | 0        | 0        | 5            | 0                |  |  |
| 5:15 AM                                     | 0            | 1         | 0         | 0        | 0            | 0        | 0         | 0        | 0            | 1        | 0        | 1         | 0            | 0        | 0        | 0        | 3            | 0                |  |  |
| 5:30 AM                                     | 0            | 0         | 1         | 0        | 0            | 0        | 1         | 1        | 0            | 0        | 0        | 1         | 0            | 0        | 0        | 0        | 4            | 0                |  |  |
| 5:45 AM                                     | 0            | 2         | 1         | 0        | 0            | 0        | 3         | 2        | 0            | 1        | 0        | 0         | 0            | 0        | 0        | 0        | 9            | 21               |  |  |
| 6:00 AM                                     | 0            | 3         | 2         | 0        | 0            | 0        | 0         | 4        | 0            | 1        | 0        | 4         | 0            | 0        | 0        | 0        | 14           | 30               |  |  |
| 6:15 AM                                     | 0            | 3         | 2         | 0        | 0            | 0        | 6         | 0        | 0            | 1        | 0        | 2         | 0            | 0        | 0        | 0        | 14           | 41               |  |  |
| 6:30 AM                                     | 0            | 5         | 2         | 0        | 0            | 0        | 1         | 2        | 0            | 0        | 0        | 3         | 0            | 0        | 0        | 0        | 13           | 50               |  |  |
| <b>6:45 AM</b>                              | <b>0</b>     | <b>4</b>  | <b>3</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>2</b>  | <b>2</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>11</b>    | <b>52</b>        |  |  |
| <b>7:00 AM</b>                              | <b>0</b>     | <b>4</b>  | <b>1</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>2</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>4</b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>11</b>    | <b>49</b>        |  |  |
| <b>7:15 AM</b>                              | <b>0</b>     | <b>9</b>  | <b>9</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>4</b>  | <b>2</b> | <b>0</b>     | <b>2</b> | <b>0</b> | <b>6</b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>32</b>    | <b>67</b>        |  |  |
| <b>7:30 AM</b>                              | <b>0</b>     | <b>3</b>  | <b>9</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>7</b>  | <b>0</b> | <b>0</b>     | <b>1</b> | <b>0</b> | <b>5</b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>25</b>    | <b>79</b>        |  |  |
| <b>7:45 AM</b>                              | <b>0</b>     | <b>2</b>  | <b>9</b>  | <b>0</b> | <b>0</b>     | <b>0</b> | <b>11</b> | <b>1</b> | <b>0</b>     | <b>2</b> | <b>0</b> | <b>14</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>39</b>    | <b>107</b>       |  |  |
| Count Total                                 | 0            | 37        | 42        | 0        | 0            | 0        | 37        | 14       | 0            | 10       | 0        | 40        | 0            | 0        | 0        | 0        | 180          | 0                |  |  |
| <b>Peak Hour</b>                            | <b>0</b>     | <b>20</b> | <b>22</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>15</b> | <b>4</b> | <b>0</b>     | <b>3</b> | <b>0</b> | <b>15</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>79</b>    | <b>0</b>         |  |  |
| Three-Hour Count Summaries - Bikes          |              |           |           |          |              |          |           |          |              |          |          |           |              |          |          |          |              |                  |  |  |
| Interval Start                              | Santa Fe Ave |           |           |          | Santa Fe Ave |          |           |          | I25 NB Ramps |          |          |           | I25 NB Ramps |          |          |          | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound    |           |           |          | Westbound    |          |           |          | Northbound   |          |          |           | Southbound   |          |          |          |              |                  |  |  |
|   | LT           | TH        | RT        |          | LT           | TH       | RT        |          | LT           | TH       | RT       |           | LT           | TH       | RT       |          |              |                  |  |  |
| 5:00 AM                                     | 0            | 0         | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |           | 0            | 0        | 0        |          | 0            | 0                |  |  |
| 5:15 AM                                     | 0            | 0         | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |           | 0            | 0        | 0        |          | 0            | 0                |  |  |
| 5:30 AM                                     | 0            | 0         | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |           | 0            | 0        | 0        |          | 0            | 0                |  |  |
| 5:45 AM                                     | 0            | 0         | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |           | 0            | 0        | 0        |          | 0            | 0                |  |  |
| 6:00 AM                                     | 0            | 0         | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |           | 0            | 0        | 0        |          | 0            | 0                |  |  |
| 6:15 AM                                     | 0            | 0         | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |           | 0            | 0        | 0        |          | 0            | 0                |  |  |
| 6:30 AM                                     | 0            | 0         | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |           | 0            | 0        | 0        |          | 0            | 0                |  |  |
| <b>6:45 AM</b>                              | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>7:00 AM</b>                              | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>7:15 AM</b>                              | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>7:30 AM</b>                              | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b> | <b>0</b>     | <b>0</b>         |  |  |
| <b>7:45 AM</b>                              | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b> | <b>0</b>     | <b>0</b>         |  |  |
| Count Total                                 | 0            | 0         | 0         |          | 0            | 0        | 0         |          | 0            | 0        | 0        |           | 0            | 0        | 0        |          | 0            | 0                |  |  |
| <b>Peak Hour</b>                            | <b>0</b>     | <b>0</b>  | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b>  | <b> </b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b>  | <b>0</b>     | <b>0</b> | <b>0</b> | <b> </b> | <b>0</b>     | <b>0</b>         |  |  |

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

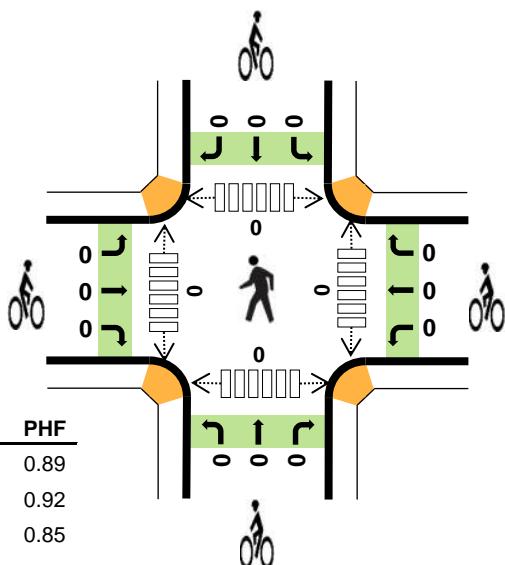
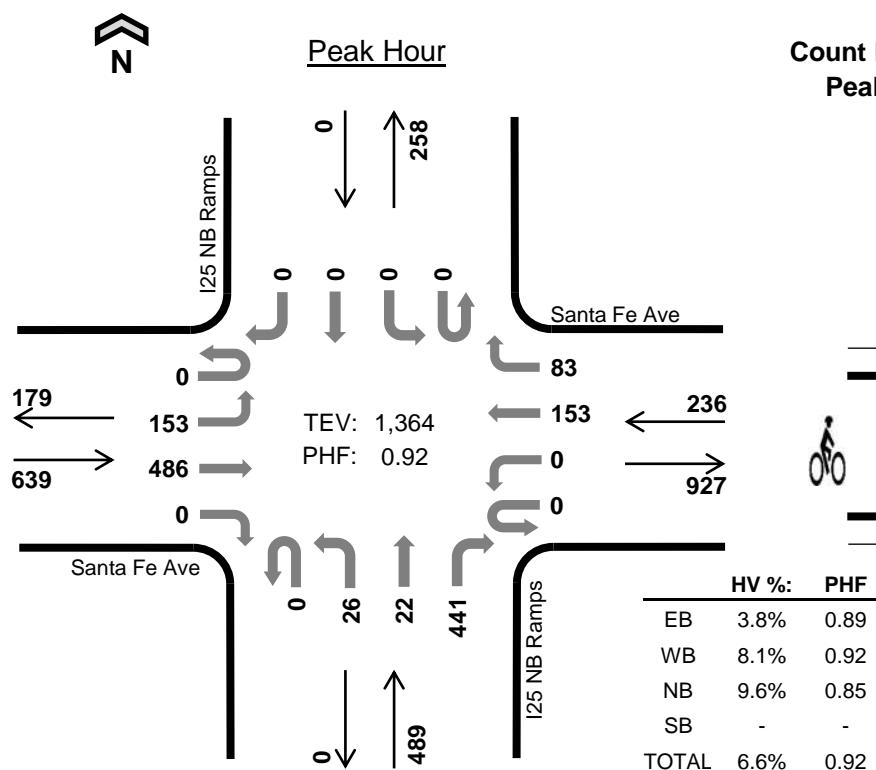
# I25 NB Ramps Santa Fe Ave



Date: 06/13/2023

Count Period: 4:00 PM to 6:00 PM

Peak Hour: 4:00 PM to 5:00 PM



## Two-Hour Count Summaries

| Interval Start | Santa Fe Ave |           |            |          | Santa Fe Ave |          |            |           | I25 NB Ramps |          |          |            | I25 NB Ramps |          |          |          | 15-min Total | Rolling One Hour |   |
|----------------|--------------|-----------|------------|----------|--------------|----------|------------|-----------|--------------|----------|----------|------------|--------------|----------|----------|----------|--------------|------------------|---|
|                | Eastbound    |           | Westbound  |          | Northbound   |          | Southbound |           | UT           | LT       | TH       | RT         | UT           | LT       | TH       | RT       |              |                  |   |
|                | UT           | LT        | TH         | RT       | UT           | LT       | TH         | RT        | UT           | LT       | TH       | RT         | UT           | LT       | TH       | RT       |              |                  |   |
| 4:00 PM        | 0            | 28        | 142        | 0        | 0            | 0        | 40         | 24        | 0            | 6        | 2        | 101        | 0            | 0        | 0        | 0        | 343          | 0                |   |
| 4:15 PM        | 0            | 42        | 101        | 0        | 0            | 0        | 37         | 24        | 0            | 5        | 7        | 101        | 0            | 0        | 0        | 0        | 317          | 0                |   |
| <b>4:30 PM</b> | <b>0</b>     | <b>44</b> | <b>136</b> | <b>0</b> | <b>0</b>     | <b>0</b> | <b>32</b>  | <b>15</b> | <b>0</b>     | <b>6</b> | <b>8</b> | <b>129</b> | <b>0</b>     | <b>0</b> | <b>0</b> | <b>0</b> | <b>370</b>   | <b>0</b>         |   |
| 4:45 PM        | 0            | 39        | 107        | 0        | 0            | 0        | 44         | 20        | 0            | 9        | 5        | 110        | 0            | 0        | 0        | 0        | 334          | 1,364            |   |
| 5:00 PM        | 0            | 38        | 127        | 0        | 0            | 0        | 32         | 16        | 0            | 4        | 5        | 114        | 0            | 0        | 0        | 0        | 336          | 1,357            |   |
| 5:15 PM        | 0            | 26        | 118        | 0        | 0            | 0        | 40         | 13        | 0            | 1        | 7        | 113        | 0            | 0        | 0        | 0        | 318          | 1,358            |   |
| 5:30 PM        | 0            | 28        | 132        | 0        | 0            | 0        | 32         | 16        | 0            | 3        | 1        | 120        | 0            | 0        | 0        | 0        | 332          | 1,320            |   |
| 5:45 PM        | 0            | 18        | 122        | 0        | 0            | 0        | 29         | 9         | 0            | 4        | 1        | 107        | 0            | 0        | 0        | 0        | 290          | 1,276            |   |
| Count Total    | 0            | 263       | 985        | 0        | 0            | 0        | 286        | 137       | 0            | 38       | 36       | 895        | 0            | 0        | 0        | 0        | 2,640        | 0                |   |
| Peak Hour      | All          | 0         | 153        | 486      | 0            | 0        | 0          | 153       | 83           | 0        | 26       | 22         | 441          | 0        | 0        | 0        | 0            | 1,364            | 0 |
|                | HV           | 0         | 11         | 13       | 0            | 0        | 0          | 13        | 6            | 0        | 6        | 0          | 41           | 0        | 0        | 0        | 0            | 90               | 0 |
|                | HV%          | -         | 7%         | 3%       | -            | -        | 8%         | 7%        | -            | 23%      | 0%       | 9%         | -            | -        | -        | -        | 7%           | 0                |   |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |          |          |          |           | Bicycles |          |          |          |          | Pedestrians (Crossing Leg) |          |          |          |          |
|----------------|----------------------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|----------|
|                | EB                   | WB       | NB       | SB       | Total     | EB       | WB       | NB       | SB       | Total    | East                       | West     | North    | South    | Total    |
| 4:00 PM        | 7                    | 5        | 12       | 0        | 24        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 4:15 PM        | 11                   | 2        | 14       | 0        | 27        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| <b>4:30 PM</b> | <b>2</b>             | <b>5</b> | <b>8</b> | <b>0</b> | <b>15</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>                   | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| 4:45 PM        | 4                    | 7        | 13       | 0        | 24        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 5:00 PM        | 3                    | 2        | 7        | 0        | 12        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 1        | 0        | 1        |
| 5:15 PM        | 5                    | 5        | 6        | 0        | 16        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 5:30 PM        | 4                    | 2        | 11       | 0        | 17        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| 5:45 PM        | 3                    | 0        | 5        | 0        | 8         | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |
| Count Total    | 39                   | 28       | 76       | 0        | 143       | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 1        | 0        | 1        |
| Peak Hour      | 24                   | 19       | 47       | 0        | 90        | 0        | 0        | 0        | 0        | 0        | 0                          | 0        | 0        | 0        | 0        |

| Two-Hour Count Summaries - Heavy Vehicles                         |              |    |    |    |              |    |    |    |              |    |    |    |              |    |    |    |              |                  |  |  |
|---|--------------|----|----|----|--------------|----|----|----|--------------|----|----|----|--------------|----|----|----|--------------|------------------|--|--|
| Interval Start  | Santa Fe Ave |    |    |    | Santa Fe Ave |    |    |    | I25 NB Ramps |    |    |    | I25 NB Ramps |    |    |    | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound    |    |    |    | Westbound    |    |    |    | Northbound   |    |    |    | Southbound   |    |    |    |              |                  |  |  |
|   | UT           | LT | TH | RT |              |                  |  |  |
| 4:00 PM   | 0            | 4  | 3  | 0  | 0            | 0  | 3  | 2  | 0            | 0  | 0  | 12 | 0            | 0  | 0  | 0  | 24           | 0                |  |  |
| 4:15 PM   | 0            | 5  | 6  | 0  | 0            | 0  | 2  | 0  | 0            | 3  | 0  | 11 | 0            | 0  | 0  | 0  | 27           | 0                |  |  |
| 4:30 PM   | 0            | 1  | 1  | 0  | 0            | 0  | 3  | 2  | 0            | 0  | 0  | 8  | 0            | 0  | 0  | 0  | 15           | 0                |  |  |
| 4:45 PM   | 0            | 1  | 3  | 0  | 0            | 0  | 5  | 2  | 0            | 3  | 0  | 10 | 0            | 0  | 0  | 0  | 24           | 90               |  |  |
| 5:00 PM   | 0            | 1  | 2  | 0  | 0            | 0  | 1  | 1  | 0            | 0  | 0  | 7  | 0            | 0  | 0  | 0  | 12           | 78               |  |  |
| 5:15 PM   | 0            | 2  | 3  | 0  | 0            | 0  | 4  | 1  | 0            | 0  | 0  | 6  | 0            | 0  | 0  | 0  | 16           | 67               |  |  |
| 5:30 PM   | 0            | 1  | 3  | 0  | 0            | 0  | 1  | 1  | 0            | 2  | 1  | 8  | 0            | 0  | 0  | 0  | 17           | 69               |  |  |
| 5:45 PM   | 0            | 1  | 2  | 0  | 0            | 0  | 0  | 0  | 0            | 2  | 0  | 3  | 0            | 0  | 0  | 0  | 8            | 53               |  |  |
| Count Total   | 0            | 16 | 23 | 0  | 0            | 0  | 19 | 9  | 0            | 10 | 1  | 65 | 0            | 0  | 0  | 0  | 143          | 0                |  |  |
| Peak Hour   | 0            | 11 | 13 | 0  | 0            | 0  | 13 | 6  | 0            | 6  | 0  | 41 | 0            | 0  | 0  | 0  | 90           | 0                |  |  |
| Two-Hour Count Summaries - Bikes                                  |              |    |    |    |              |    |    |    |              |    |    |    |              |    |    |    |              |                  |  |  |
| Interval Start  | Santa Fe Ave |    |    |    | Santa Fe Ave |    |    |    | I25 NB Ramps |    |    |    | I25 NB Ramps |    |    |    | 15-min Total | Rolling One Hour |  |  |
|   | Eastbound    |    |    |    | Westbound    |    |    |    | Northbound   |    |    |    | Southbound   |    |    |    |              |                  |  |  |
|   | LT           | TH | RT |    | LT           | TH | RT |    | LT           | TH | RT |    | LT           | TH | RT |    |              |                  |  |  |
| 4:00 PM   | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0                |  |  |
| 4:15 PM   | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0                |  |  |
| 4:30 PM   | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0                |  |  |
| 4:45 PM   | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0                |  |  |
| 5:00 PM   | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0                |  |  |
| 5:15 PM   | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0                |  |  |
| 5:30 PM   | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0                |  |  |
| 5:45 PM   | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0                |  |  |
| Count Total   | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0                |  |  |
| Peak Hour   | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0  | 0  |    | 0            | 0                |  |  |
| Note: U-Turn volumes for bikes are included in Left-Turn, if any. |              |    |    |    |              |    |    |    |              |    |    |    |              |    |    |    |              |                  |  |  |

Location: Charter Oak Ranch Rd W/O Santa Fe Ave  
 Date Range: 6/13/2023 - 6/19/2023  
 Site Code: 01

| Time           | Tuesday<br>6/13/2023 |              |              | Wednesday<br>6/14/2023 |    |       | Thursday<br>6/15/2023 |    |       | Friday<br>6/16/2023 |    |       | Saturday<br>6/17/2023 |    |       | Sunday<br>6/18/2023 |    |       | Monday<br>6/19/2023 |    |            | Mid-Week Average |              |       |
|----------------|----------------------|--------------|--------------|------------------------|----|-------|-----------------------|----|-------|---------------------|----|-------|-----------------------|----|-------|---------------------|----|-------|---------------------|----|------------|------------------|--------------|-------|
|                | EB                   | WB           | Total        | EB                     | WB | Total | EB                    | WB | Total | EB                  | WB | Total | EB                    | WB | Total | EB                  | WB | Total | EB                  | WB | Total      | EB               | WB           | Total |
| 12:00 AM       | 0                    | 0            | 0            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 0          | 0                | 0            |       |
| 1:00 AM        | 0                    | 1            | 1            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 0          | 1                | 1            |       |
| 2:00 AM        | 1                    | 1            | 2            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 1          | 1                | 2            |       |
| 3:00 AM        | 1                    | 0            | 1            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 1          | 0                | 1            |       |
| 4:00 AM        | 2                    | 4            | 6            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 2          | 4                | 6            |       |
| 5:00 AM        | 3                    | 177          | 180          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 3          | 177              | 180          |       |
| 6:00 AM        | 21                   | 184          | 205          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 21         | 184              | 205          |       |
| 7:00 AM        | 53                   | 115          | 168          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 53         | 115              | 168          |       |
| 8:00 AM        | 24                   | 318          | 342          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 24         | 318              | 342          |       |
| 9:00 AM        | 28                   | 120          | 148          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 28         | 120              | 148          |       |
| 10:00 AM       | 39                   | 24           | 63           | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 39         | 24               | 63           |       |
| 11:00 AM       | 97                   | 24           | 121          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 97         | 24               | 121          |       |
| 12:00 PM       | 55                   | 78           | 133          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 55         | 78               | 133          |       |
| 1:00 PM        | 54                   | 38           | 92           | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 54         | 38               | 92           |       |
| 2:00 PM        | 53                   | 24           | 77           | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 53         | 24               | 77           |       |
| 3:00 PM        | 96                   | 21           | 117          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 96         | 21               | 117          |       |
| 4:00 PM        | 194                  | 20           | 214          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 194        | 20               | 214          |       |
| 5:00 PM        | 152                  | 17           | 169          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 152        | 17               | 169          |       |
| 6:00 PM        | 1                    | 0            | 1            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 1          | 0                | 1            |       |
| 7:00 PM        | 0                    | 2            | 2            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 0          | 2                | 2            |       |
| 8:00 PM        | 0                    | 0            | 0            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 0          | 0                | 0            |       |
| 9:00 PM        | 0                    | 0            | 0            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 0          | 0                | 0            |       |
| 10:00 PM       | 0                    | 0            | 0            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 0          | 0                | 0            |       |
| 11:00 PM       | 1                    | 0            | 1            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 1          | 0                | 1            |       |
| <b>Total</b>   | <b>875</b>           | <b>1,168</b> | <b>2,043</b> | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | <b>875</b> | <b>1,168</b>     | <b>2,043</b> |       |
| <b>Percent</b> | <b>43%</b>           | <b>57%</b>   | -            | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | <b>43%</b> | <b>57%</b>       | -            |       |
| AM Peak        | 11:00                | 08:00        | 08:00        | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 11:00      | 08:00            | 08:00        |       |
| Vol.           | 97                   | 318          | 342          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 97         | 318              | 342          |       |
| PM Peak        | 16:00                | 12:00        | 16:00        | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 16:00      | 12:00            | 16:00        |       |
| Vol.           | 194                  | 78           | 214          | -                      | -  | -     | -                     | -  | -     | -                   | -  | -     | -                     | -  | -     | -                   | -  | -     | -                   | -  | 194        | 78               | 214          |       |

1. Mid-week average includes data between Tuesday and Thursday.

## Appendix C: Existing Conditions Synchro Analysis Reports

## HCM 6th Signalized Intersection Summary

3: I-25 NB Ramps &amp; US 85

07/17/2023

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   |      |      |      |      |      |      |      |      |      |     |     |     |
| Traffic Volume (veh/h)  | 33   | 215  | 0    | 0    | 286  | 353  | 32   | 1    | 281  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 33   | 215  | 0    | 0    | 286  | 353  | 32   | 1    | 281  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      |      | 1.00 | 1.00 |      |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 996  | 1752 | 0    | 0    | 1826 | 1885 | 1767 | 1900 | 1826 |     |     |     |
| Adj Flow Rate, veh/h  | 35   | 231  | 0    | 0    | 308  | 0    | 34   | 1    | 0    |     |     |     |
| Peak Hour Factor  | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |     |     |     |
| Percent Heavy Veh, %  | 61   | 10   | 0    | 0    | 5    | 1    | 9    | 0    | 5    |     |     |     |
| Cap, veh/h  | 505  | 1408 | 0    | 0    | 2433 |      | 59   | 2    |      |     |     |     |
| Arrive On Green   | 0.03 | 0.80 | 0.00 | 0.00 | 0.70 | 0.00 | 0.03 | 0.03 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 949  | 1752 | 0    | 0    | 3561 | 1598 | 1760 | 52   | 1547 |     |     |     |
| Grp Volume(v), veh/h  | 35   | 231  | 0    | 0    | 308  | 0    | 35   | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 949  | 1752 | 0    | 0    | 1735 | 1598 | 1812 | 0    | 1547 |     |     |     |
| Q Serve(g_s), s   | 0.7  | 2.4  | 0.0  | 0.0  | 2.3  | 0.0  | 1.5  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 0.7  | 2.4  | 0.0  | 0.0  | 2.3  | 0.0  | 1.5  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      |      | 1.00 | 0.97 |      |     |     |     |
| Lane Grp Cap(c), veh/h  | 505  | 1408 | 0    | 0    | 2433 |      | 61   | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.07 | 0.16 | 0.00 | 0.00 | 0.13 |      | 0.57 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 586  | 1408 | 0    | 0    | 2433 |      | 419  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 2.5  | 1.8  | 0.0  | 0.0  | 3.9  | 0.0  | 38.1 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.1  | 0.3  | 0.0  | 0.0  | 0.1  | 0.0  | 8.1  | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 0.1  | 0.4  | 0.0  | 0.0  | 0.6  | 0.0  | 0.8  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 2.6  | 2.0  | 0.0  | 0.0  | 4.0  | 0.0  | 46.2 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | A    | A    | A    | A    |      | D    | A    |      |     |     |     |
| Approach Vol, veh/h   |      | 266  |      |      | 308  |      | 35   |      |      |     |     |     |
| Approach Delay, s/veh   |      | 2.1  |      |      | 4.0  |      | 46.2 |      |      |     |     |     |
| Approach LOS  |      | A    |      |      | A    |      | D    |      |      |     |     |     |
| Timer - Assigned Phs  |      | 2    |      |      | 5    | 6    | 8    |      |      |     |     |     |
| Phs Duration (G+Y+Rc), s  |      | 70.8 |      |      | 8.2  | 62.6 | 9.2  |      |      |     |     |     |
| Change Period (Y+Rc), s   |      | 6.5  |      |      | 5.5  | 6.5  | 6.5  |      |      |     |     |     |
| Max Green Setting (Gmax), s   |      | 48.5 |      |      | 9.5  | 33.5 | 18.5 |      |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  |      | 4.4  |      |      | 2.7  | 4.3  | 3.5  |      |      |     |     |     |
| Green Ext Time (p_c), s   |      | 1.4  |      |      | 0.0  | 2.0  | 0.1  |      |      |     |     |     |
| <b>Intersection Summary</b>   |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      | 5.6  |      |      |      |      |      |      |      |     |     |     |
| HCM 6th LOS   |      | A    |      |      |      |      |      |      |      |     |     |     |
| <b>Notes</b>  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

07/17/2023



| Movement                         | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|----------------------------------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations              |      |      |      |      |      |      |     |     |     |      |      |      |
| Traffic Volume (veh/h)           | 0    | 97   | 22   | 127  | 188  | 0    | 0   | 0   | 0   | 152  | 2    | 112  |
| Future Volume (veh/h)            | 0    | 97   | 22   | 127  | 188  | 0    | 0   | 0   | 0   | 152  | 2    | 112  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)              | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln           | 0    | 1411 | 1500 | 1781 | 1826 | 0    |     |     |     | 1796 | 1159 | 1663 |
| Adj Flow Rate, veh/h             | 0    | 114  | 0    | 149  | 221  | 0    |     |     |     | 179  | 2    | 0    |
| Peak Hour Factor                 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |     |     |     | 0.85 | 0.85 | 0.85 |
| Percent Heavy Veh, %             | 0    | 33   | 27   | 8    | 5    | 0    |     |     |     | 7    | 50   | 16   |
| Cap, veh/h                       | 0    | 1384 |      | 797  | 1181 | 0    |     |     |     | 208  | 2    |      |
| Arrive On Green                  | 0.00 | 0.52 | 0.00 | 0.06 | 0.65 | 0.00 |     |     |     | 0.19 | 0.19 | 0.00 |
| Sat Flow, veh/h                  | 0    | 2751 | 1271 | 1697 | 1826 | 0    |     |     |     | 1092 | 12   | 1409 |
| Grp Volume(v), veh/h             | 0    | 114  | 0    | 149  | 221  | 0    |     |     |     | 181  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln        | 0    | 1340 | 1271 | 1697 | 1826 | 0    |     |     |     | 1104 | 0    | 1409 |
| Q Serve(g_s), s                  | 0.0  | 1.7  | 0.0  | 3.1  | 3.9  | 0.0  |     |     |     | 12.7 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  | 1.7  | 0.0  | 3.1  | 3.9  | 0.0  |     |     |     | 12.7 | 0.0  | 0.0  |
| Prop In Lane                     | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.99 |      | 1.00 |
| Lane Grp Cap(c), veh/h           | 0    | 1384 |      | 797  | 1181 | 0    |     |     |     | 211  | 0    |      |
| V/C Ratio(X)                     | 0.00 | 0.08 |      | 0.19 | 0.19 | 0.00 |     |     |     | 0.86 | 0.00 |      |
| Avail Cap(c_a), veh/h            | 0    | 1384 |      | 831  | 1181 | 0    |     |     |     | 462  | 0    |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  | 9.8  | 0.0  | 7.0  | 5.7  | 0.0  |     |     |     | 31.3 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  | 0.1  | 0.0  | 0.1  | 0.4  | 0.0  |     |     |     | 9.7  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0     | 0.5  | 0.0  | 0.9  | 1.3  | 0.0  |      |     |     |     | 3.7  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh            | 0.0  | 9.9  | 0.0  | 7.1  | 6.0  | 0.0  |     |     |     | 41.1 | 0.0  | 0.0  |
| LnGrp LOS                        | A    | A    |      | A    | A    | A    |     |     |     | D    | A    |      |
| Approach Vol, veh/h              |      | 114  |      |      | 370  |      |     |     |     | 181  |      |      |
| Approach Delay, s/veh            |      | 9.9  |      |      | 6.5  |      |     |     |     | 41.1 |      |      |
| Approach LOS                     |      | A    |      |      | A    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs             | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$0.4     | 47.8 |      |      | 21.8 |      | 58.2 |     |     |     |      |      |      |
| Change Period (Y+Rc), s          | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s      | 5.5  | 21.5 |      | 33.5 |      | 33.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s      | 5.5  | 3.7  |      | 14.7 |      | 5.9  |     |     |     |      |      |      |
| Green Ext Time (p_c), s          | 0.1  | 0.5  |      | 0.9  |      | 1.2  |     |     |     |      |      |      |
| Intersection Summary             |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay               |      | 16.5 |      |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS                      |      | B    |      |      |      |      |     |     |     |      |      |      |
| Notes                            |      |      |      |      |      |      |     |     |     |      |      |      |

Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

**Intersection**

Intersection Delay, s/veh 4.3

Intersection LOS A

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 6     | 280   | 61    | 65    |
| Demand Flow Rate, veh/h     | 12    | 293   | 66    | 71    |
| Vehicles Circulating, veh/h | 270   | 0     | 80    | 215   |
| Vehicles Exiting, veh/h     | 16    | 146   | 202   | 78    |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 7.0   | 4.5   | 3.5   | 4.1   |
| Approach LOS                | A     | A     | A     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 12    | 293   | 66    | 71    |
| Cap Entry Lane, veh/h | 1048  | 1380  | 1272  | 1108  |
| Entry HV Adj Factor   | 0.500 | 0.955 | 0.924 | 0.915 |
| Flow Entry, veh/h     | 6     | 280   | 61    | 65    |
| Cap Entry, veh/h      | 524   | 1317  | 1175  | 1015  |
| V/C Ratio             | 0.011 | 0.212 | 0.052 | 0.064 |
| Control Delay, s/veh  | 7.0   | 4.5   | 3.5   | 4.1   |
| LOS                   | A     | A     | A     | A     |
| 95th %tile Queue, veh | 0     | 1     | 0     | 0     |

## Intersection

Int Delay, s/veh 1.3

| Movement                   | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Lane Configurations</b> |      |      |      |      |      |      |      |      |      |      |      |      |
| Traffic Vol, veh/h         | 0    | 43   | 0    | 22   | 111  | 1    | 1    | 0    | 7    | 0    | 0    | 1    |
| Future Vol, veh/h          | 0    | 43   | 0    | 22   | 111  | 1    | 1    | 0    | 7    | 0    | 0    | 1    |
| Conflicting Peds, #/hr     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control               | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized             | -    | -    | None |
| Storage Length             | -    | -    | -    | 300  | -    | -    | -    | -    | -    | -    | -    | -    |
| Veh in Median Storage, #   | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                   | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor           | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 81   | 81   |
| Heavy Vehicles, %          | 2    | 5    | 2    | 9    | 3    | 0    | 100  | 2    | 57   | 2    | 2    | 0    |
| Mvmt Flow                  | 0    | 53   | 0    | 27   | 137  | 1    | 1    | 0    | 9    | 0    | 0    | 1    |

| Major/Minor          | Major1 | Major2 |   |       | Minor1 |   |     | Minor2 |       |       |       |     |
|----------------------|--------|--------|---|-------|--------|---|-----|--------|-------|-------|-------|-----|
| Conflicting Flow All | 138    | 0      | 0 | 53    | 0      | 0 | 245 | 245    | 53    | 250   | 245   | 138 |
| Stage 1              | -      | -      | - | -     | -      | - | 53  | 53     | -     | 192   | 192   | -   |
| Stage 2              | -      | -      | - | -     | -      | - | 192 | 192    | -     | 58    | 53    | -   |
| Critical Hdwy        | 4.12   | -      | - | 4.19  | -      | - | 8.1 | 6.52   | 6.77  | 7.12  | 6.52  | 6.2 |
| Critical Hdwy Stg 1  | -      | -      | - | -     | -      | - | 7.1 | 5.52   | -     | 6.12  | 5.52  | -   |
| Critical Hdwy Stg 2  | -      | -      | - | -     | -      | - | 7.1 | 5.52   | -     | 6.12  | 5.52  | -   |
| Follow-up Hdwy       | 2.218  | -      | - | 2.281 | -      | - | 4.4 | 4.018  | 3.813 | 3.518 | 4.018 | 3.3 |
| Pot Cap-1 Maneuver   | 1446   | -      | - | 1509  | -      | - | 546 | 657    | 879   | 703   | 657   | 916 |
| Stage 1              | -      | -      | - | -     | -      | - | 761 | 851    | -     | 810   | 742   | -   |
| Stage 2              | -      | -      | - | -     | -      | - | 629 | 742    | -     | 954   | 851   | -   |
| Platoon blocked, %   | -      | -      | - | -     | -      | - | -   | -      | -     | -     | -     | -   |
| Mov Cap-1 Maneuver   | 1446   | -      | - | 1509  | -      | - | 538 | 645    | 879   | 687   | 645   | 916 |
| Mov Cap-2 Maneuver   | -      | -      | - | -     | -      | - | 538 | 645    | -     | 687   | 645   | -   |
| Stage 1              | -      | -      | - | -     | -      | - | 761 | 851    | -     | 810   | 729   | -   |
| Stage 2              | -      | -      | - | -     | -      | - | 617 | 729    | -     | 945   | 851   | -   |

| Approach             | EB | WB  |  |  | NB  |  |  | SB  |  |  |  |
|----------------------|----|-----|--|--|-----|--|--|-----|--|--|--|
| HCM Control Delay, s | 0  | 1.2 |  |  | 9.5 |  |  | 8.9 |  |  |  |
| HCM LOS              |    |     |  |  | A   |  |  | A   |  |  |  |

| Minor Lane/Major Mvmt | NBLn1 | EBL  | EBT | EBR | WBL   | WBT | WBR | SBLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h)      | 814   | 1446 | -   | -   | 1509  | -   | -   | 916   |
| HCM Lane V/C Ratio    | 0.012 | -    | -   | -   | 0.018 | -   | -   | 0.001 |
| HCM Control Delay (s) | 9.5   | 0    | -   | -   | 7.4   | -   | -   | 8.9   |
| HCM Lane LOS          | A     | A    | -   | -   | A     | -   | -   | A     |
| HCM 95th %tile Q(veh) | 0     | 0    | -   | -   | 0.1   | -   | -   | 0     |

**Intersection**

Int Delay, s/veh 0.2

| Movement                 | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | ↑    |      | ↑    | ↑    | ↑    | ↑    |
| Traffic Vol, veh/h       | 38   | 0    | 4    | 112  | 0    | 3    |
| Future Vol, veh/h        | 38   | 0    | 4    | 112  | 0    | 3    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop | Stop |
| RT Channelized           | -    | None | -    | None | -    | Free |
| Storage Length           | -    | -    | 350  | -    | 0    | 0    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | 0    | -    | -    | 0    | 0    | -    |
| Peak Hour Factor         | 89   | 89   | 89   | 89   | 89   | 89   |
| Heavy Vehicles, %        | 0    | 2    | 100  | 0    | 2    | 67   |
| Mvmt Flow                | 43   | 0    | 4    | 126  | 0    | 3    |

| Major/Minor          | Major1 | Major2 | Minor1 |           |
|----------------------|--------|--------|--------|-----------|
| Conflicting Flow All | 0      | 0      | 43     | 0 177 -   |
| Stage 1              | -      | -      | -      | - 43 -    |
| Stage 2              | -      | -      | -      | - 134 -   |
| Critical Hdwy        | -      | -      | 5.1    | - 6.42 -  |
| Critical Hdwy Stg 1  | -      | -      | -      | - 5.42 -  |
| Critical Hdwy Stg 2  | -      | -      | -      | - 5.42 -  |
| Follow-up Hdwy       | -      | -      | 3.1    | - 3.518 - |
| Pot Cap-1 Maneuver   | -      | -      | 1113   | - 813 0   |
| Stage 1              | -      | -      | -      | - 979 0   |
| Stage 2              | -      | -      | -      | - 892 0   |
| Platoon blocked, %   | -      | -      | -      | -         |
| Mov Cap-1 Maneuver   | -      | -      | 1113   | - 810 -   |
| Mov Cap-2 Maneuver   | -      | -      | -      | - 810 -   |
| Stage 1              | -      | -      | -      | - 979 -   |
| Stage 2              | -      | -      | -      | - 888 -   |

| Approach             | EB | WB  | NB |
|----------------------|----|-----|----|
| HCM Control Delay, s | 0  | 0.3 | 0  |
| HCM LOS              |    | A   |    |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBT | EBR | WBL   | WBT |
|-----------------------|-------|-------|-----|-----|-------|-----|
| Capacity (veh/h)      | -     | -     | -   | -   | 1113  | -   |
| HCM Lane V/C Ratio    | -     | -     | -   | -   | 0.004 | -   |
| HCM Control Delay (s) | 0     | 0     | -   | -   | 8.2   | -   |
| HCM Lane LOS          | A     | A     | -   | -   | A     | -   |
| HCM 95th %tile Q(veh) | -     | -     | -   | -   | 0     | -   |

## HCM 6th Signalized Intersection Summary

3: I-25 NB Ramps &amp; US 85

07/17/2023

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   |      |      |      |      |      |      |      |      |      |     |     |     |
| Traffic Volume (veh/h)  | 147  | 488  | 0    | 0    | 148  | 64   | 20   | 25   | 466  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 147  | 488  | 0    | 0    | 148  | 64   | 20   | 25   | 466  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 |      |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 1826 | 1870 | 0    | 0    | 1796 | 1781 | 1455 | 1900 | 1781 |     |     |     |
| Adj Flow Rate, veh/h  | 160  | 530  | 0    | 0    | 161  | 0    | 22   | 27   | 0    |     |     |     |
| Peak Hour Factor  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |     |     |     |
| Percent Heavy Veh, %  | 5    | 2    | 0    | 0    | 7    | 8    | 30   | 0    | 8    |     |     |     |
| Cap, veh/h  | 995  | 1527 | 0    | 0    | 2391 |      | 33   | 40   |      |     |     |     |
| Arrive On Green   | 0.05 | 0.82 | 0.00 | 0.00 | 0.70 | 0.00 | 0.04 | 0.04 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 1739 | 1870 | 0    | 0    | 3503 | 1510 | 834  | 1024 | 1510 |     |     |     |
| Grp Volume(v), veh/h  | 160  | 530  | 0    | 0    | 161  | 0    | 49   | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 1739 | 1870 | 0    | 0    | 1706 | 1510 | 1858 | 0    | 1510 |     |     |     |
| Q Serve(g_s), s   | 2.0  | 6.5  | 0.0  | 0.0  | 1.3  | 0.0  | 2.3  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 2.0  | 6.5  | 0.0  | 0.0  | 1.3  | 0.0  | 2.3  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      | 1.00 | 0.45 |      | 1.00 |     |     |     |
| Lane Grp Cap(c), veh/h  | 995  | 1527 | 0    | 0    | 2391 |      | 73   | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.16 | 0.35 | 0.00 | 0.00 | 0.07 |      | 0.67 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 1084 | 1527 | 0    | 0    | 2391 |      | 279  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 0.98 | 0.98 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 2.5  | 2.1  | 0.0  | 0.0  | 4.2  | 0.0  | 42.7 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.1  | 0.6  | 0.0  | 0.0  | 0.1  | 0.0  | 10.2 | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 0.4  | 1.4  | 0.0  | 0.0  | 0.4  | 0.0  | 1.2  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 2.6  | 2.7  | 0.0  | 0.0  | 4.3  | 0.0  | 52.9 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | A    | A    | A    | A    |      | D    | A    |      |     |     |     |
| Approach Vol, veh/h   |      | 690  |      |      | 161  |      | 49   |      |      |     |     |     |
| Approach Delay, s/veh   |      | 2.7  |      |      | 4.3  |      | 52.9 |      |      |     |     |     |
| Approach LOS  |      | A    |      |      | A    |      | D    |      |      |     |     |     |
| Timer - Assigned Phs  |      | 2    |      |      | 5    | 6    | 8    |      |      |     |     |     |
| Phs Duration (G+Y+Rc), s  |      | 80.0 |      |      | 10.4 | 69.6 | 10.0 |      |      |     |     |     |
| Change Period (Y+Rc), s   |      | 6.5  |      |      | 5.5  | 6.5  | 6.5  |      |      |     |     |     |
| Max Green Setting (Gmax), s   |      | 63.5 |      |      | 9.5  | 48.5 | 13.5 |      |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  |      | 8.5  |      |      | 4.0  | 3.3  | 4.3  |      |      |     |     |     |
| Green Ext Time (p_c), s   |      | 3.8  |      |      | 0.2  | 1.1  | 0.1  |      |      |     |     |     |
| <b>Intersection Summary</b>   |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      | 5.7  |      |      |      |      |      |      |      |     |     |     |
| HCM 6th LOS   |      | A    |      |      |      |      |      |      |      |     |     |     |
| <b>Notes</b>  |      |      |      |      |      |      |      |      |      |     |     |     |
| User approved pedestrian interval to be less than phase max green.  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

07/17/2023



| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|---|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations   |      |      |      |      |      |      |     |     |     |      |      |      |
| Traffic Volume (veh/h)  | 0    | 398  | 105  | 128  | 45   | 0    | 0   | 0   | 0   | 236  | 0    | 120  |
| Future Volume (veh/h)   | 0    | 398  | 105  | 128  | 45   | 0    | 0   | 0   | 0   | 236  | 0    | 120  |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach   | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln  | 0    | 1856 | 1767 | 1826 | 1500 | 0    |     |     |     | 1885 | 1870 | 1796 |
| Adj Flow Rate, veh/h  | 0    | 442  | 0    | 142  | 50   | 0    |     |     |     | 262  | 0    | 0    |
| Peak Hour Factor  | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |     |     |     | 0.90 | 0.90 | 0.90 |
| Percent Heavy Veh, %  | 0    | 3    | 9    | 5    | 27   | 0    |     |     |     | 1    | 2    | 7    |
| Cap, veh/h  | 0    | 1980 |      | 635  | 1015 | 0    |     |     |     | 318  | 0    |      |
| Arrive On Green   | 0.00 | 0.56 | 0.00 | 0.05 | 0.68 | 0.00 |     |     |     | 0.18 | 0.00 | 0.00 |
| Sat Flow, veh/h   | 0    | 3618 | 1497 | 1739 | 1500 | 0    |     |     |     | 1781 | 0    | 1522 |
| Grp Volume(v), veh/h  | 0    | 442  | 0    | 142  | 50   | 0    |     |     |     | 262  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln   | 0    | 1763 | 1497 | 1739 | 1500 | 0    |     |     |     | 1781 | 0    | 1522 |
| Q Serve(g_s), s   | 0.0  | 5.7  | 0.0  | 2.9  | 1.0  | 0.0  |     |     |     | 12.7 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s   | 0.0  | 5.7  | 0.0  | 2.9  | 1.0  | 0.0  |     |     |     | 12.7 | 0.0  | 0.0  |
| Prop In Lane  | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h  | 0    | 1980 |      | 635  | 1015 | 0    |     |     |     | 318  | 0    |      |
| V/C Ratio(X)  | 0.00 | 0.22 |      | 0.22 | 0.05 | 0.00 |     |     |     | 0.82 | 0.00 |      |
| Avail Cap(c_a), veh/h   | 0    | 1980 |      | 667  | 1015 | 0    |     |     |     | 762  | 0    |      |
| HCM Platoon Ratio   | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)  | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh  | 0.0  | 9.9  | 0.0  | 6.8  | 4.9  | 0.0  |     |     |     | 35.6 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh  | 0.0  | 0.3  | 0.0  | 0.2  | 0.1  | 0.0  |     |     |     | 5.3  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0  | 2.1  | 0.0  | 0.9  | 0.3  | 0.0  |      |     |     |     | 5.7  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh   | 0.0  | 10.1 | 0.0  | 7.0  | 5.0  | 0.0  |     |     |     | 40.9 | 0.0  | 0.0  |
| LnGrp LOS   | A    | B    |      | A    | A    | A    |     |     |     | D    | A    |      |
| Approach Vol, veh/h   |      | 442  |      |      | 192  |      |     |     |     | 262  |      |      |
| Approach Delay, s/veh   |      | 10.1 |      |      | 6.5  |      |     |     |     | 40.9 |      |      |
| Approach LOS  |      | B    |      |      | A    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs  | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$0.4  | 57.1 |      |      | 22.6 |      | 67.4 |     |     |     |      |      |      |
| Change Period (Y+Rc), s   | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s   | 26.5 |      |      | 38.5 |      | 38.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l4), s  | 7.7  |      |      | 14.7 |      | 3.0  |     |     |     |      |      |      |
| Green Ext Time (p_c), s   | 0.1  | 2.7  |      | 1.4  |      | 0.2  |     |     |     |      |      |      |
| Intersection Summary  |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay  |      | 18.3 |      |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS   |      | B    |      |      |      |      |     |     |     |      |      |      |
| Notes   |      |      |      |      |      |      |     |     |     |      |      |      |
| Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |     |     |     |      |      |      |

**Intersection**

Intersection Delay, s/veh 5.8

Intersection LOS A

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 21    | 126   | 449   | 82    |
| Demand Flow Rate, veh/h     | 22    | 137   | 449   | 89    |
| Vehicles Circulating, veh/h | 186   | 3     | 167   | 101   |
| Vehicles Exiting, veh/h     | 4     | 613   | 41    | 39    |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 3.5   | 3.7   | 7.0   | 3.7   |
| Approach LOS                | A     | A     | A     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 22    | 137   | 449   | 89    |
| Cap Entry Lane, veh/h | 1141  | 1376  | 1164  | 1245  |
| Entry HV Adj Factor   | 0.955 | 0.916 | 1.000 | 0.921 |
| Flow Entry, veh/h     | 21    | 125   | 449   | 82    |
| Cap Entry, veh/h      | 1090  | 1260  | 1164  | 1147  |
| V/C Ratio             | 0.019 | 0.100 | 0.386 | 0.071 |
| Control Delay, s/veh  | 3.5   | 3.7   | 7.0   | 3.7   |
| LOS                   | A     | A     | A     | A     |
| 95th %tile Queue, veh | 0     | 0     | 2     | 0     |

## Intersection

Int Delay, s/veh 0.5

| Movement                   | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Lane Configurations</b> |      |      |      |      |      |      |      |      |      |      |      |      |
| Traffic Vol, veh/h         | 0    | 217  | 0    | 1    | 25   | 0    | 0    | 0    | 12   | 0    | 0    | 0    |
| Future Vol, veh/h          | 0    | 217  | 0    | 1    | 25   | 0    | 0    | 0    | 12   | 0    | 0    | 0    |
| Conflicting Peds, #/hr     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control               | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized             | -    | -    | None |
| Storage Length             | -    | -    | -    | 300  | -    | -    | -    | -    | -    | -    | -    | -    |
| Veh in Median Storage, #   | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                   | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor           | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   |
| Heavy Vehicles, %          | 2    | 0    | 2    | 0    | 12   | 2    | 2    | 2    | 0    | 2    | 2    | 2    |
| Mvmt Flow                  | 0    | 238  | 0    | 1    | 27   | 0    | 0    | 0    | 13   | 0    | 0    | 0    |

| Major/Minor          | Major1 | Major2 |   |      | Minor1 |   |       | Minor2 |     |       |       |       |
|----------------------|--------|--------|---|------|--------|---|-------|--------|-----|-------|-------|-------|
| Conflicting Flow All | 27     | 0      | 0 | 238  | 0      | 0 | 267   | 267    | 238 | 274   | 267   | 27    |
| Stage 1              | -      | -      | - | -    | -      | - | 238   | 238    | -   | 29    | 29    | -     |
| Stage 2              | -      | -      | - | -    | -      | - | 29    | 29     | -   | 245   | 238   | -     |
| Critical Hdwy        | 4.12   | -      | - | 4.1  | -      | - | 7.12  | 6.52   | 6.2 | 7.12  | 6.52  | 6.22  |
| Critical Hdwy Stg 1  | -      | -      | - | -    | -      | - | 6.12  | 5.52   | -   | 6.12  | 5.52  | -     |
| Critical Hdwy Stg 2  | -      | -      | - | -    | -      | - | 6.12  | 5.52   | -   | 6.12  | 5.52  | -     |
| Follow-up Hdwy       | 2.218  | -      | - | 2.2  | -      | - | 3.518 | 4.018  | 3.3 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver   | 1587   | -      | - | 1341 | -      | - | 686   | 639    | 806 | 678   | 639   | 1048  |
| Stage 1              | -      | -      | - | -    | -      | - | 765   | 708    | -   | 988   | 871   | -     |
| Stage 2              | -      | -      | - | -    | -      | - | 988   | 871    | -   | 759   | 708   | -     |
| Platoon blocked, %   | -      | -      | - | -    | -      | - | -     | -      | -   | -     | -     | -     |
| Mov Cap-1 Maneuver   | 1587   | -      | - | 1341 | -      | - | 685   | 638    | 806 | 666   | 638   | 1048  |
| Mov Cap-2 Maneuver   | -      | -      | - | -    | -      | - | 685   | 638    | -   | 666   | 638   | -     |
| Stage 1              | -      | -      | - | -    | -      | - | 765   | 708    | -   | 988   | 870   | -     |
| Stage 2              | -      | -      | - | -    | -      | - | 987   | 870    | -   | 747   | 708   | -     |

| Approach              | EB    | WB   |     |     | NB    |     |     | SB  |       |     |     |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-----|-------|-----|-----|
| HCM Control Delay, s  | 0     | 0.3  |     |     | 9.5   |     |     | 0   |       |     |     |
| HCM LOS               |       |      |     |     | A     |     |     | A   |       |     |     |
| <hr/>                 |       |      |     |     |       |     |     |     |       |     |     |
| Minor Lane/Major Mvmt | NBLn1 | EBL  | EBT | EBR | WBL   | WBT | WBR | SBL | SBLn1 | SBT | SBR |
| Capacity (veh/h)      | 806   | 1587 | -   | -   | 1341  | -   | -   | -   | -     | -   | -   |
| HCM Lane V/C Ratio    | 0.016 | -    | -   | -   | 0.001 | -   | -   | -   | -     | -   | -   |
| HCM Control Delay (s) | 9.5   | 0    | -   | -   | 7.7   | -   | -   | -   | 0     | -   | -   |
| HCM Lane LOS          | A     | A    | -   | -   | A     | -   | -   | -   | A     | -   | -   |
| HCM 95th %tile Q(veh) | 0.1   | 0    | -   | -   | 0     | -   | -   | -   | -     | -   | -   |

**Intersection**

Int Delay, s/veh 0.2

| Movement                 | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | ↑    |      | ↑    | ↑    | ↑    | ↑    |
| Traffic Vol, veh/h       | 206  | 0    | 6    | 18   | 0    | 6    |
| Future Vol, veh/h        | 206  | 0    | 6    | 18   | 0    | 6    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop | Stop |
| RT Channelized           | -    | None | -    | None | -    | Free |
| Storage Length           | -    | -    | 350  | -    | 0    | 0    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | 0    | -    | -    | 0    | 0    | -    |
| Peak Hour Factor         | 94   | 94   | 94   | 94   | 94   | 94   |
| Heavy Vehicles, %        | 0    | 2    | 33   | 6    | 2    | 17   |
| Mvmt Flow                | 219  | 0    | 6    | 19   | 0    | 6    |

| Major/Minor          | Major1 | Major2 | Minor1 |           |
|----------------------|--------|--------|--------|-----------|
| Conflicting Flow All | 0      | 0      | 219    | 0 250 -   |
| Stage 1              | -      | -      | -      | - 219 -   |
| Stage 2              | -      | -      | -      | - 31 -    |
| Critical Hdwy        | -      | -      | 4.43   | - 6.42 -  |
| Critical Hdwy Stg 1  | -      | -      | -      | - 5.42 -  |
| Critical Hdwy Stg 2  | -      | -      | -      | - 5.42 -  |
| Follow-up Hdwy       | -      | -      | 2.497  | - 3.518 - |
| Pot Cap-1 Maneuver   | -      | -      | 1187   | - 739 0   |
| Stage 1              | -      | -      | -      | - 817 0   |
| Stage 2              | -      | -      | -      | - 992 0   |
| Platoon blocked, %   | -      | -      | -      | -         |
| Mov Cap-1 Maneuver   | -      | -      | 1187   | - 735 -   |
| Mov Cap-2 Maneuver   | -      | -      | -      | - 735 -   |
| Stage 1              | -      | -      | -      | - 817 -   |
| Stage 2              | -      | -      | -      | - 987 -   |

| Approach             | EB | WB | NB |
|----------------------|----|----|----|
| HCM Control Delay, s | 0  | 2  | 0  |
| HCM LOS              |    | A  |    |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBT | EBR | WBL   | WBT |
|-----------------------|-------|-------|-----|-----|-------|-----|
| Capacity (veh/h)      | -     | -     | -   | -   | 1187  | -   |
| HCM Lane V/C Ratio    | -     | -     | -   | -   | 0.005 | -   |
| HCM Control Delay (s) | 0     | 0     | -   | -   | 8     | -   |
| HCM Lane LOS          | A     | A     | -   | -   | A     | -   |
| HCM 95th %tile Q(veh) | -     | -     | -   | -   | 0     | -   |

## Appendix D: Background Traffic Synchro Analysis Reports

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

2035 Background  
AM Peak Hour

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   |      |      |      |      |      |      |      |      |      |     |     |     |
| Traffic Volume (veh/h)  | 39   | 255  | 0    | 0    | 350  | 402  | 39   | 1    | 320  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 39   | 255  | 0    | 0    | 350  | 402  | 39   | 1    | 320  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 996  | 1752 | 0    | 0    | 1826 | 1885 | 1767 | 1900 | 1826 |     |     |     |
| Adj Flow Rate, veh/h  | 46   | 300  | 0    | 0    | 412  | 0    | 46   | 1    | 0    |     |     |     |
| Peak Hour Factor  | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |     |     |     |
| Percent Heavy Veh, %  | 61   | 10   | 0    | 0    | 5    | 1    | 9    | 0    | 5    |     |     |     |
| Cap, veh/h  | 463  | 1396 | 0    | 0    | 2388 |      | 72   | 2    |      |     |     |     |
| Arrive On Green   | 0.03 | 0.53 | 0.00 | 0.00 | 0.69 | 0.00 | 0.04 | 0.04 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 949  | 1752 | 0    | 0    | 3561 | 1598 | 1773 | 39   | 1547 |     |     |     |
| Grp Volume(v), veh/h  | 46   | 300  | 0    | 0    | 412  | 0    | 47   | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 949  | 1752 | 0    | 0    | 1735 | 1598 | 1811 | 0    | 1547 |     |     |     |
| Q Serve(g_s), s   | 1.0  | 7.2  | 0.0  | 0.0  | 3.4  | 0.0  | 2.0  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 1.0  | 7.2  | 0.0  | 0.0  | 3.4  | 0.0  | 2.0  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      | 1.00 | 0.98 |      | 1.00 |     |     |     |
| Lane Grp Cap(c), veh/h  | 463  | 1396 | 0    | 0    | 2388 |      | 73   | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.10 | 0.21 | 0.00 | 0.00 | 0.17 |      | 0.64 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 538  | 1396 | 0    | 0    | 2388 |      | 419  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 0.67 | 0.67 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 2.8  | 5.5  | 0.0  | 0.0  | 4.4  | 0.0  | 37.8 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.1  | 0.4  | 0.0  | 0.0  | 0.2  | 0.0  | 9.0  | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 0.1  | 1.7  | 0.0  | 0.0  | 0.9  | 0.0  | 1.0  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 2.9  | 5.8  | 0.0  | 0.0  | 4.6  | 0.0  | 46.8 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | A    | A    | A    | A    |      | D    | A    |      |     |     |     |
| Approach Vol, veh/h   | 346  |      |      |      | 412  |      |      | 47   |      |     |     |     |
| Approach Delay, s/veh   | 5.4  |      |      |      | 4.6  |      |      | 46.8 |      |     |     |     |
| Approach LOS  | A    |      |      |      | A    |      |      | D    |      |     |     |     |
| Timer - Assigned Phs  | 2    |      |      |      | 5    | 6    |      | 8    |      |     |     |     |
| Phs Duration (G+Y+Rc), s  | 70.3 |      |      |      | 8.7  | 61.6 |      | 9.7  |      |     |     |     |
| Change Period (Y+Rc), s   | 6.5  |      |      |      | 5.5  | 6.5  |      | 6.5  |      |     |     |     |
| Max Green Setting (Gmax), s   | 48.5 |      |      |      | 9.5  | 33.5 |      | 18.5 |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  | 9.2  |      |      |      | 3.0  | 5.4  |      | 4.0  |      |     |     |     |
| Green Ext Time (p_c), s   | 1.9  |      |      |      | 0.0  | 2.8  |      | 0.1  |      |     |     |     |
| <b>Intersection Summary</b>   |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      |      |      |      | 7.4  |      |      |      |      |     |     |     |
| HCM 6th LOS   |      |      |      |      | A    |      |      |      |      |     |     |     |
| <b>Notes</b>  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

2035 Background  
AM Peak Hour



| Movement                         | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|----------------------------------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations              |      | ↑↑   |      | ↑    | ↑    |      |     |     |     | ↑    | ↑    | ↑    |
| Traffic Volume (veh/h)           | 0    | 121  | 27   | 145  | 244  | 0    | 0   | 0   | 0   | 173  | 2    | 145  |
| Future Volume (veh/h)            | 0    | 121  | 27   | 145  | 244  | 0    | 0   | 0   | 0   | 173  | 2    | 145  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)              | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln           | 0    | 1411 | 1500 | 1781 | 1826 | 0    |     |     |     | 1796 | 1159 | 1663 |
| Adj Flow Rate, veh/h             | 0    | 142  | 0    | 171  | 287  | 0    |     |     |     | 204  | 2    | 0    |
| Peak Hour Factor                 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |     |     |     | 0.85 | 0.85 | 0.85 |
| Percent Heavy Veh, %             | 0    | 33   | 27   | 8    | 5    | 0    |     |     |     | 7    | 50   | 16   |
| Cap, veh/h                       | 0    | 1295 |      | 749  | 1137 | 0    |     |     |     | 235  | 2    |      |
| Arrive On Green                  | 0.00 | 0.48 | 0.00 | 0.07 | 0.62 | 0.00 |     |     |     | 0.21 | 0.21 | 0.00 |
| Sat Flow, veh/h                  | 0    | 2751 | 1271 | 1697 | 1826 | 0    |     |     |     | 1094 | 11   | 1409 |
| Grp Volume(v), veh/h             | 0    | 142  | 0    | 171  | 287  | 0    |     |     |     | 206  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln        | 0    | 1340 | 1271 | 1697 | 1826 | 0    |     |     |     | 1104 | 0    | 1409 |
| Q Serve(g_s), s                  | 0.0  | 2.3  | 0.0  | 3.8  | 5.6  | 0.0  |     |     |     | 14.4 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  | 2.3  | 0.0  | 3.8  | 5.6  | 0.0  |     |     |     | 14.4 | 0.0  | 0.0  |
| Prop In Lane                     | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.99 |      | 1.00 |
| Lane Grp Cap(c), veh/h           | 0    | 1295 |      | 749  | 1137 | 0    |     |     |     | 237  | 0    |      |
| V/C Ratio(X)                     | 0.00 | 0.11 |      | 0.23 | 0.25 | 0.00 |     |     |     | 0.87 | 0.00 |      |
| Avail Cap(c_a), veh/h            | 0    | 1295 |      | 767  | 1137 | 0    |     |     |     | 462  | 0    |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 0.00 | 1.00 | 0.00 | 0.99 | 0.99 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  | 11.3 | 0.0  | 8.0  | 6.8  | 0.0  |     |     |     | 30.3 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  | 0.2  | 0.0  | 0.2  | 0.5  | 0.0  |     |     |     | 9.3  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0     | 0.7  | 0.0  | 1.2  | 2.0  | 0.0  |      |     |     |     | 4.1  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh            | 0.0  | 11.5 | 0.0  | 8.2  | 7.3  | 0.0  |     |     |     | 39.7 | 0.0  | 0.0  |
| LnGrp LOS                        | A    | B    |      | A    | A    |      |     |     |     | D    | A    |      |
| Approach Vol, veh/h              |      | 142  |      |      | 458  |      |     |     |     | 206  |      |      |
| Approach Delay, s/veh            |      | 11.5 |      |      | 7.6  |      |     |     |     | 39.7 |      |      |
| Approach LOS                     |      | B    |      |      | A    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs             | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.2     | 45.1 |      |      | 23.7 |      | 56.3 |     |     |     |      |      |      |
| Change Period (Y+Rc), s          | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s      | 5.5  | 21.5 |      | 33.5 |      | 33.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s      | 5.5  | 4.3  |      | 16.4 |      | 7.6  |     |     |     |      |      |      |
| Green Ext Time (p_c), s          | 0.0  | 0.7  |      | 1.0  |      | 1.6  |     |     |     |      |      |      |
| Intersection Summary             |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay               |      | 16.5 |      |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS                      |      | B    |      |      |      |      |     |     |     |      |      |      |
| Notes                            |      |      |      |      |      |      |     |     |     |      |      |      |

Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

**Intersection**

Intersection Delay, s/veh 5.1

Intersection LOS A

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 19    | 382   | 98    | 82    |
| Demand Flow Rate, veh/h     | 26    | 400   | 105   | 89    |
| Vehicles Circulating, veh/h | 379   | 18    | 100   | 315   |
| Vehicles Exiting, veh/h     | 25    | 187   | 305   | 103   |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 5.5   | 5.4   | 3.8   | 4.7   |
| Approach LOS                | A     | A     | A     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 26    | 400   | 105   | 89    |
| Cap Entry Lane, veh/h | 937   | 1355  | 1246  | 1001  |
| Entry HV Adj Factor   | 0.731 | 0.955 | 0.932 | 0.920 |
| Flow Entry, veh/h     | 19    | 382   | 98    | 82    |
| Cap Entry, veh/h      | 685   | 1293  | 1162  | 921   |
| V/C Ratio             | 0.028 | 0.295 | 0.084 | 0.089 |
| Control Delay, s/veh  | 5.5   | 5.4   | 3.8   | 4.7   |
| LOS                   | A     | A     | A     | A     |
| 95th %tile Queue, veh | 0     | 1     | 0     | 0     |

| Intersection             |       |        |      |       |        |      |      |        |       |       |       |      |
|--------------------------|-------|--------|------|-------|--------|------|------|--------|-------|-------|-------|------|
| Int Delay, s/veh         | 1     |        |      |       |        |      |      |        |       |       |       |      |
| Movement                 | EBL   | EBT    | EBR  | WBL   | WBT    | WBR  | NBL  | NBT    | NBR   | SBL   | SBT   | SBR  |
| Lane Configurations      | ↔     | ↑      | ↑    | ↔     | ↔      | ↔    | ↔    | ↔      | ↔     | ↔     | ↔     | ↔    |
| Traffic Vol, veh/h       | 0     | 71     | 0    | 25    | 184    | 1    | 1    | 0      | 8     | 0     | 0     | 1    |
| Future Vol, veh/h        | 0     | 71     | 0    | 25    | 184    | 1    | 1    | 0      | 8     | 0     | 0     | 1    |
| Conflicting Peds, #/hr   | 0     | 0      | 0    | 0     | 0      | 0    | 0    | 0      | 0     | 0     | 0     | 0    |
| Sign Control             | Free  | Free   | Free | Free  | Free   | Free | Stop | Stop   | Stop  | Stop  | Stop  | Stop |
| RT Channelized           | -     | -      | None | -     | -      | None | -    | -      | None  | -     | -     | None |
| Storage Length           | -     | -      | -    | 300   | -      | -    | -    | -      | -     | -     | -     | -    |
| Veh in Median Storage, # | -     | 0      | -    | -     | 0      | -    | -    | 0      | -     | -     | 0     | -    |
| Grade, %                 | -     | 0      | -    | -     | 0      | -    | -    | 0      | -     | -     | 0     | -    |
| Peak Hour Factor         | 85    | 85     | 85   | 85    | 85     | 85   | 85   | 85     | 85    | 85    | 85    | 85   |
| Heavy Vehicles, %        | 2     | 5      | 2    | 9     | 3      | 0    | 100  | 2      | 57    | 2     | 2     | 0    |
| Mvmt Flow                | 0     | 84     | 0    | 29    | 216    | 1    | 1    | 0      | 9     | 0     | 0     | 1    |
| Major/Minor              |       |        |      |       |        |      |      |        |       |       |       |      |
| Major1                   |       | Major2 |      |       | Minor1 |      |      | Minor2 |       |       |       |      |
| Conflicting Flow All     | 217   | 0      | 0    | 84    | 0      | 0    | 359  | 359    | 84    | 364   | 359   | 217  |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 84   | 84     | -     | 275   | 275   | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 275  | 275    | -     | 89    | 84    | -    |
| Critical Hdwy            | 4.12  | -      | -    | 4.19  | -      | -    | 8.1  | 6.52   | 6.77  | 7.12  | 6.52  | 6.2  |
| Critical Hdwy Stg 1      | -     | -      | -    | -     | -      | -    | 7.1  | 5.52   | -     | 6.12  | 5.52  | -    |
| Critical Hdwy Stg 2      | -     | -      | -    | -     | -      | -    | 7.1  | 5.52   | -     | 6.12  | 5.52  | -    |
| Follow-up Hdwy           | 2.218 | -      | -    | 2.281 | -      | -    | 4.4  | 4.018  | 3.813 | 3.518 | 4.018 | 3.3  |
| Pot Cap-1 Maneuver       | 1353  | -      | -    | 1470  | -      | -    | 451  | 568    | 843   | 592   | 568   | 828  |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 729  | 825    | -     | 731   | 683   | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 560  | 683    | -     | 918   | 825   | -    |
| Platoon blocked, %       | -     | -      | -    | -     | -      | -    | -    | -      | -     | -     | -     | -    |
| Mov Cap-1 Maneuver       | 1353  | -      | -    | 1470  | -      | -    | 444  | 557    | 843   | 577   | 557   | 828  |
| Mov Cap-2 Maneuver       | -     | -      | -    | -     | -      | -    | 444  | 557    | -     | 577   | 557   | -    |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 729  | 825    | -     | 731   | 669   | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 548  | 669    | -     | 908   | 825   | -    |
| Approach                 |       |        |      |       |        |      |      |        |       |       |       |      |
| EB                       |       |        | WB   |       |        | NB   |      |        | SB    |       |       |      |
| HCM Control Delay, s     | 0     |        |      | 0.9   |        |      | 9.8  |        |       | 9.4   |       |      |
| HCM LOS                  |       |        |      |       |        |      | A    |        |       | A     |       |      |
| Minor Lane/Major Mvmt    |       |        |      |       |        |      |      |        |       |       |       |      |
| NBLn1                    |       | EBL    | EBT  | EBR   | WBL    | WBT  | WBR  | SBLn1  |       |       |       |      |
| Capacity (veh/h)         | 766   | 1353   | -    | -     | 1470   | -    | -    | 828    |       |       |       |      |
| HCM Lane V/C Ratio       | 0.014 | -      | -    | -     | 0.02   | -    | -    | 0.001  |       |       |       |      |
| HCM Control Delay (s)    | 9.8   | 0      | -    | -     | 7.5    | -    | -    | 9.4    |       |       |       |      |
| HCM Lane LOS             | A     | A      | -    | -     | A      | -    | -    | A      |       |       |       |      |
| HCM 95th %tile Q(veh)    | 0     | 0      | -    | -     | 0.1    | -    | -    | 0      |       |       |       |      |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 8.4    |        |        |      |       |      |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR  |
| Lane Configurations      | ↑      |        | ↑      | ↑    | ↑     | ↑    |
| Traffic Vol, veh/h       | 5      | 0      | 185    | 5    | 0     | 62   |
| Future Vol, veh/h        | 5      | 0      | 185    | 5    | 0     | 62   |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop |
| RT Channelized           | -      | None   | -      | None | -     | Free |
| Storage Length           | -      | -      | 350    | -    | 0     | 0    |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -    |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -    |
| Peak Hour Factor         | 85     | 85     | 85     | 85   | 85    | 85   |
| Heavy Vehicles, %        | 0      | 2      | 100    | 0    | 2     | 67   |
| Mvmt Flow                | 6      | 0      | 218    | 6    | 0     | 73   |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |      |
| Conflicting Flow All     | 0      | 0      | 6      | 0    | 448   | -    |
| Stage 1                  | -      | -      | -      | -    | 6     | -    |
| Stage 2                  | -      | -      | -      | -    | 442   | -    |
| Critical Hdwy            | -      | -      | 5.1    | -    | 6.42  | -    |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -    |
| Follow-up Hdwy           | -      | -      | 3.1    | -    | 3.518 | -    |
| Pot Cap-1 Maneuver       | -      | -      | 1154   | -    | 568   | 0    |
| Stage 1                  | -      | -      | -      | -    | 1017  | 0    |
| Stage 2                  | -      | -      | -      | -    | 648   | 0    |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -    |
| Mov Cap-1 Maneuver       | -      | -      | 1154   | -    | 461   | -    |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 461   | -    |
| Stage 1                  | -      | -      | -      | -    | 1017  | -    |
| Stage 2                  | -      | -      | -      | -    | 526   | -    |
| Approach                 | EB     | WB     | NB     |      |       |      |
| HCM Control Delay, s     | 0      | 8.6    | 0      |      |       |      |
| HCM LOS                  |        |        | A      |      |       |      |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT  |
| Capacity (veh/h)         | -      | -      | -      | -    | 1154  | -    |
| HCM Lane V/C Ratio       | -      | -      | -      | -    | 0.189 | -    |
| HCM Control Delay (s)    | 0      | 0      | -      | -    | 8.8   | -    |
| HCM Lane LOS             | A      | A      | -      | -    | A     | -    |
| HCM 95th %tile Q(veh)    | -      | -      | -      | -    | 0.7   | -    |

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

2035 Background  
PM Peak Hour

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   |      |      |      |      |      |      |      |      |      |     |     |     |
| Traffic Volume (veh/h)  | 187  | 621  | 0    | 0    | 177  | 73   | 24   | 29   | 531  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 187  | 621  | 0    | 0    | 177  | 73   | 24   | 29   | 531  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 1826 | 1870 | 0    | 0    | 1796 | 1781 | 1455 | 1900 | 1781 |     |     |     |
| Adj Flow Rate, veh/h  | 220  | 731  | 0    | 0    | 208  | 0    | 28   | 34   | 0    |     |     |     |
| Peak Hour Factor  | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |     |     |     |
| Percent Heavy Veh, %  | 5    | 2    | 0    | 0    | 7    | 8    | 30   | 0    | 8    |     |     |     |
| Cap, veh/h  | 951  | 1517 | 0    | 0    | 2360 |      | 37   | 45   |      |     |     |     |
| Arrive On Green   | 0.08 | 1.00 | 0.00 | 0.00 | 0.69 | 0.00 | 0.04 | 0.04 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 1739 | 1870 | 0    | 0    | 3503 | 1510 | 839  | 1019 | 1510 |     |     |     |
| Grp Volume(v), veh/h  | 220  | 731  | 0    | 0    | 208  | 0    | 62   | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 1739 | 1870 | 0    | 0    | 1706 | 1510 | 1858 | 0    | 1510 |     |     |     |
| Q Serve(g_s), s   | 3.1  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | 3.0  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 3.1  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | 3.0  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      | 1.00 | 0.45 |      | 1.00 |     |     |     |
| Lane Grp Cap(c), veh/h  | 951  | 1517 | 0    | 0    | 2360 |      | 83   | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.23 | 0.48 | 0.00 | 0.00 | 0.09 |      | 0.75 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 1033 | 1517 | 0    | 0    | 2360 |      | 279  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 1.33 | 1.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 0.92 | 0.92 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 2.7  | 0.0  | 0.0  | 0.0  | 4.6  | 0.0  | 42.5 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.1  | 1.0  | 0.0  | 0.0  | 0.1  | 0.0  | 12.8 | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 0.7  | 0.4  | 0.0  | 0.0  | 0.5  | 0.0  | 1.6  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 2.8  | 1.0  | 0.0  | 0.0  | 4.6  | 0.0  | 55.3 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | A    | A    | A    | A    |      | E    | A    |      |     |     |     |
| Approach Vol, veh/h   | 951  |      |      |      | 208  |      | 62   |      |      |     |     |     |
| Approach Delay, s/veh   |      | 1.4  |      |      | 4.6  |      | 55.3 |      |      |     |     |     |
| Approach LOS  |      | A    |      |      | A    |      | E    |      |      |     |     |     |
| Timer - Assigned Phs  | 2    |      |      |      | 5    | 6    | 8    |      |      |     |     |     |
| Phs Duration (G+Y+Rc), s  | 79.5 |      |      |      | 10.8 | 68.7 | 10.5 |      |      |     |     |     |
| Change Period (Y+Rc), s   | 6.5  |      |      |      | 5.5  | 6.5  | 6.5  |      |      |     |     |     |
| Max Green Setting (Gmax), s   | 63.5 |      |      |      | 9.5  | 48.5 | 13.5 |      |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  | 2.0  |      |      |      | 5.1  | 3.8  | 5.0  |      |      |     |     |     |
| Green Ext Time (p_c), s   | 6.1  |      |      |      | 0.2  | 1.4  | 0.1  |      |      |     |     |     |
| <b>Intersection Summary</b>   |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      |      |      | 4.7  |      |      |      |      |      |     |     |     |
| HCM 6th LOS   |      |      |      | A    |      |      |      |      |      |     |     |     |
| <b>Notes</b>  |      |      |      |      |      |      |      |      |      |     |     |     |
| User approved pedestrian interval to be less than phase max green.  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

2035 Background  
PM Peak Hour



| Movement                         | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|----------------------------------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations              |      | ↑↑   | ↑    | ↑    | ↑    | ↑    |     |     |     | ↑↑   | ↑    |      |
| Traffic Volume (veh/h)           | 0    | 539  | 142  | 146  | 55   | 0    | 0   | 0   | 0   | 269  | 5    | 146  |
| Future Volume (veh/h)            | 0    | 539  | 142  | 146  | 55   | 0    | 0   | 0   | 0   | 269  | 5    | 146  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)              | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln           | 0    | 1856 | 1767 | 1826 | 1500 | 0    |     |     |     | 1885 | 1870 | 1796 |
| Adj Flow Rate, veh/h             | 0    | 634  | 0    | 172  | 65   | 0    |     |     |     | 316  | 6    | 0    |
| Peak Hour Factor                 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |     |     |     | 0.85 | 0.85 | 0.85 |
| Percent Heavy Veh, %             | 0    | 3    | 9    | 5    | 27   | 0    |     |     |     | 1    | 2    | 7    |
| Cap, veh/h                       | 0    | 1816 |      | 510  | 962  | 0    |     |     |     | 375  | 7    |      |
| Arrive On Green                  | 0.00 | 0.52 | 0.00 | 0.07 | 0.64 | 0.00 |     |     |     | 0.21 | 0.21 | 0.00 |
| Sat Flow, veh/h                  | 0    | 3618 | 1497 | 1739 | 1500 | 0    |     |     |     | 1750 | 33   | 1522 |
| Grp Volume(v), veh/h             | 0    | 634  | 0    | 172  | 65   | 0    |     |     |     | 322  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln        | 0    | 1763 | 1497 | 1739 | 1500 | 0    |     |     |     | 1783 | 0    | 1522 |
| Q Serve(g_s), s                  | 0.0  | 9.6  | 0.0  | 3.9  | 1.5  | 0.0  |     |     |     | 15.6 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  | 9.6  | 0.0  | 3.9  | 1.5  | 0.0  |     |     |     | 15.6 | 0.0  | 0.0  |
| Prop In Lane                     | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.98 |      | 1.00 |
| Lane Grp Cap(c), veh/h           | 0    | 1816 |      | 510  | 962  | 0    |     |     |     | 382  | 0    |      |
| V/C Ratio(X)                     | 0.00 | 0.35 |      | 0.34 | 0.07 | 0.00 |     |     |     | 0.84 | 0.00 |      |
| Avail Cap(c_a), veh/h            | 0    | 1816 |      | 522  | 962  | 0    |     |     |     | 763  | 0    |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  | 12.9 | 0.0  | 8.8  | 6.0  | 0.0  |     |     |     | 33.9 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  | 0.5  | 0.0  | 0.4  | 0.1  | 0.0  |     |     |     | 5.1  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0     | 3.6  | 0.0  | 1.3  | 0.4  | 0.0  |      |     |     |     | 6.9  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh            | 0.0  | 13.4 | 0.0  | 9.2  | 6.2  | 0.0  |     |     |     | 39.0 | 0.0  | 0.0  |
| LnGrp LOS                        | A    | B    |      | A    | A    | A    |     |     |     | D    | A    |      |
| Approach Vol, veh/h              |      | 634  |      |      | 237  |      |     |     |     | 322  |      |      |
| Approach Delay, s/veh            |      | 13.4 |      |      | 8.4  |      |     |     |     | 39.0 |      |      |
| Approach LOS                     |      | B    |      |      | A    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs             | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.4     |      | 52.9 |      | 25.8 |      | 64.2 |     |     |     |      |      |      |
| Change Period (Y+Rc), s          | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s      | 5.5  | 26.5 |      | 38.5 |      | 38.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s      | 15.9 | 11.6 |      | 17.6 |      | 3.5  |     |     |     |      |      |      |
| Green Ext Time (p_c), s          | 0.0  | 3.7  |      | 1.7  |      | 0.3  |     |     |     |      |      |      |
| Intersection Summary             |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay               |      | 19.3 |      |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS                      |      | B    |      |      |      |      |     |     |     |      |      |      |
| Notes                            |      |      |      |      |      |      |     |     |     |      |      |      |

Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

**Intersection**

Intersection Delay, s/veh 6.8

Intersection LOS A

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 26    | 133   | 554   | 83    |
| Demand Flow Rate, veh/h     | 27    | 145   | 554   | 89    |
| Vehicles Circulating, veh/h | 191   | 14    | 162   | 117   |
| Vehicles Exiting, veh/h     | 15    | 702   | 56    | 42    |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 3.5   | 3.8   | 8.2   | 3.8   |
| Approach LOS                | A     | A     | A     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 27    | 145   | 554   | 89    |
| Cap Entry Lane, veh/h | 1136  | 1360  | 1170  | 1225  |
| Entry HV Adj Factor   | 0.963 | 0.918 | 1.000 | 0.933 |
| Flow Entry, veh/h     | 26    | 133   | 554   | 83    |
| Cap Entry, veh/h      | 1094  | 1248  | 1170  | 1142  |
| V/C Ratio             | 0.024 | 0.107 | 0.474 | 0.073 |
| Control Delay, s/veh  | 3.5   | 3.8   | 8.2   | 3.8   |
| LOS                   | A     | A     | A     | A     |
| 95th %tile Queue, veh | 0     | 0     | 3     | 0     |

| Intersection             |       |        |      |      |        |       |       |        |      |       |       |       |  |  |  |  |  |  |  |
|--------------------------|-------|--------|------|------|--------|-------|-------|--------|------|-------|-------|-------|--|--|--|--|--|--|--|
| Int Delay, s/veh         | 0.4   |        |      |      |        |       |       |        |      |       |       |       |  |  |  |  |  |  |  |
| Movement                 | EBL   | EBT    | EBR  | WBL  | WBT    | WBR   | NBL   | NBT    | NBR  | SBL   | SBT   | SBR   |  |  |  |  |  |  |  |
| Lane Configurations      | ↔     |        |      | ↑    | ↑      |       | ↔     | ↔      |      | ↔     | ↔     |       |  |  |  |  |  |  |  |
| Traffic Vol, veh/h       | 0     | 360    | 0    | 1    | 42     | 0     | 0     | 0      | 14   | 0     | 0     | 0     |  |  |  |  |  |  |  |
| Future Vol, veh/h        | 0     | 360    | 0    | 1    | 42     | 0     | 0     | 0      | 14   | 0     | 0     | 0     |  |  |  |  |  |  |  |
| Conflicting Peds, #/hr   | 0     | 0      | 0    | 0    | 0      | 0     | 0     | 0      | 0    | 0     | 0     | 0     |  |  |  |  |  |  |  |
| Sign Control             | Free  | Free   | Free | Free | Free   | Free  | Stop  | Stop   | Stop | Stop  | Stop  | Stop  |  |  |  |  |  |  |  |
| RT Channelized           | -     | -      | None | -    | -      | None  | -     | -      | None | -     | -     | None  |  |  |  |  |  |  |  |
| Storage Length           | -     | -      | -    | 300  | -      | -     | -     | -      | -    | -     | -     | -     |  |  |  |  |  |  |  |
| Veh in Median Storage, # | -     | 0      | -    | -    | 0      | -     | -     | 0      | -    | -     | 0     | -     |  |  |  |  |  |  |  |
| Grade, %                 | -     | 0      | -    | -    | 0      | -     | -     | 0      | -    | -     | 0     | -     |  |  |  |  |  |  |  |
| Peak Hour Factor         | 85    | 85     | 85   | 85   | 85     | 85    | 85    | 85     | 85   | 85    | 85    | 85    |  |  |  |  |  |  |  |
| Heavy Vehicles, %        | 2     | 0      | 2    | 0    | 12     | 2     | 2     | 2      | 0    | 2     | 2     | 2     |  |  |  |  |  |  |  |
| Mvmt Flow                | 0     | 424    | 0    | 1    | 49     | 0     | 0     | 0      | 16   | 0     | 0     | 0     |  |  |  |  |  |  |  |
| Major/Minor              |       |        |      |      |        |       |       |        |      |       |       |       |  |  |  |  |  |  |  |
| Major1                   |       | Major2 |      |      | Minor1 |       |       | Minor2 |      |       |       |       |  |  |  |  |  |  |  |
| Conflicting Flow All     | 49    | 0      | 0    | 424  | 0      | 0     | 475   | 475    | 424  | 483   | 475   | 49    |  |  |  |  |  |  |  |
| Stage 1                  | -     | -      | -    | -    | -      | -     | 424   | 424    | -    | 51    | 51    | -     |  |  |  |  |  |  |  |
| Stage 2                  | -     | -      | -    | -    | -      | -     | 51    | 51     | -    | 432   | 424   | -     |  |  |  |  |  |  |  |
| Critical Hdwy            | 4.12  | -      | -    | 4.1  | -      | -     | 7.12  | 6.52   | 6.2  | 7.12  | 6.52  | 6.22  |  |  |  |  |  |  |  |
| Critical Hdwy Stg 1      | -     | -      | -    | -    | -      | -     | 6.12  | 5.52   | -    | 6.12  | 5.52  | -     |  |  |  |  |  |  |  |
| Critical Hdwy Stg 2      | -     | -      | -    | -    | -      | -     | 6.12  | 5.52   | -    | 6.12  | 5.52  | -     |  |  |  |  |  |  |  |
| Follow-up Hdwy           | 2.218 | -      | -    | 2.2  | -      | -     | 3.518 | 4.018  | 3.3  | 3.518 | 4.018 | 3.318 |  |  |  |  |  |  |  |
| Pot Cap-1 Maneuver       | 1558  | -      | -    | 1146 | -      | -     | 500   | 488    | 634  | 494   | 488   | 1020  |  |  |  |  |  |  |  |
| Stage 1                  | -     | -      | -    | -    | -      | -     | 608   | 587    | -    | 962   | 852   | -     |  |  |  |  |  |  |  |
| Stage 2                  | -     | -      | -    | -    | -      | -     | 962   | 852    | -    | 602   | 587   | -     |  |  |  |  |  |  |  |
| Platoon blocked, %       | -     | -      | -    | -    | -      | -     | -     | -      | -    | -     | -     | -     |  |  |  |  |  |  |  |
| Mov Cap-1 Maneuver       | 1558  | -      | -    | 1146 | -      | -     | 500   | 488    | 634  | 481   | 488   | 1020  |  |  |  |  |  |  |  |
| Mov Cap-2 Maneuver       | -     | -      | -    | -    | -      | -     | 500   | 488    | -    | 481   | 488   | -     |  |  |  |  |  |  |  |
| Stage 1                  | -     | -      | -    | -    | -      | -     | 608   | 587    | -    | 962   | 851   | -     |  |  |  |  |  |  |  |
| Stage 2                  | -     | -      | -    | -    | -      | -     | 961   | 851    | -    | 586   | 587   | -     |  |  |  |  |  |  |  |
| Approach                 |       |        |      |      |        |       |       |        |      |       |       |       |  |  |  |  |  |  |  |
| EB                       |       |        | WB   |      |        | NB    |       |        | SB   |       |       |       |  |  |  |  |  |  |  |
| HCM Control Delay, s     | 0     |        | 0.2  |      |        | 10.8  |       |        | 0    |       |       |       |  |  |  |  |  |  |  |
| HCM LOS                  | B     |        |      |      |        |       | A     |        |      |       |       |       |  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt    |       |        |      |      |        |       |       |        |      |       |       |       |  |  |  |  |  |  |  |
| NBLn1                    |       | EBL    | EBT  | EBR  | WBL    | WBT   | WBR   | SBLn1  |      |       |       |       |  |  |  |  |  |  |  |
| Capacity (veh/h)         | 634   |        | 1558 | -    | -      | 1146  | -     | -      |      |       |       |       |  |  |  |  |  |  |  |
| HCM Lane V/C Ratio       | 0.026 |        | -    | -    | -      | 0.001 | -     | -      |      |       |       |       |  |  |  |  |  |  |  |
| HCM Control Delay (s)    | 10.8  |        | 0    | -    | -      | 8.1   | -     | -      | 0    |       |       |       |  |  |  |  |  |  |  |
| HCM Lane LOS             | B     |        | A    | -    | -      | A     | -     | -      | A    |       |       |       |  |  |  |  |  |  |  |
| HCM 95th %tile Q(veh)    | 0.1   |        | 0    | -    | -      | 0     | -     | -      |      |       |       |       |  |  |  |  |  |  |  |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 5.8    |        |        |      |       |      |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR  |
| Lane Configurations      | ↑      |        | ↑      | ↑    | ↑     | ↑    |
| Traffic Vol, veh/h       | 5      | 0      | 32     | 5    | 0     | 344  |
| Future Vol, veh/h        | 5      | 0      | 32     | 5    | 0     | 344  |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop |
| RT Channelized           | -      | None   | -      | None | -     | Free |
| Storage Length           | -      | -      | 350    | -    | 0     | 0    |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -    |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -    |
| Peak Hour Factor         | 85     | 85     | 85     | 85   | 85    | 85   |
| Heavy Vehicles, %        | 0      | 2      | 33     | 6    | 2     | 17   |
| Mvmt Flow                | 6      | 0      | 38     | 6    | 0     | 405  |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |      |
| Conflicting Flow All     | 0      | 0      | 6      | 0    | 88    | -    |
| Stage 1                  | -      | -      | -      | -    | 6     | -    |
| Stage 2                  | -      | -      | -      | -    | 82    | -    |
| Critical Hdwy            | -      | -      | 4.43   | -    | 6.42  | -    |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -    |
| Follow-up Hdwy           | -      | -      | 2.497  | -    | 3.518 | -    |
| Pot Cap-1 Maneuver       | -      | -      | 1434   | -    | 913   | 0    |
| Stage 1                  | -      | -      | -      | -    | 1017  | 0    |
| Stage 2                  | -      | -      | -      | -    | 941   | 0    |
| Platoon blocked, %       | -      | -      | -      | -    |       |      |
| Mov Cap-1 Maneuver       | -      | -      | 1434   | -    | 889   | -    |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 889   | -    |
| Stage 1                  | -      | -      | -      | -    | 1017  | -    |
| Stage 2                  | -      | -      | -      | -    | 917   | -    |
| Approach                 | EB     | WB     | NB     |      |       |      |
| HCM Control Delay, s     | 0      | 6.6    | 0      |      |       |      |
| HCM LOS                  |        |        | A      |      |       |      |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT  |
| Capacity (veh/h)         | -      | -      | -      | -    | 1434  | -    |
| HCM Lane V/C Ratio       | -      | -      | -      | -    | 0.026 | -    |
| HCM Control Delay (s)    | 0      | 0      | -      | -    | 7.6   | -    |
| HCM Lane LOS             | A      | A      | -      | -    | A     | -    |
| HCM 95th %tile Q(veh)    | -      | -      | -      | -    | 0.1   | -    |

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

2040 Background  
AM Peak Hour

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   |      |      |      |      |      |      |      |      |      |     |     |     |
| Traffic Volume (veh/h)  | 44   | 287  | 0    | 0    | 404  | 427  | 45   | 1    | 340  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 44   | 287  | 0    | 0    | 404  | 427  | 45   | 1    | 340  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 |      |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 996  | 1752 | 0    | 0    | 1826 | 1885 | 1767 | 1900 | 1826 |     |     |     |
| Adj Flow Rate, veh/h  | 48   | 312  | 0    | 0    | 439  | 0    | 49   | 1    | 0    |     |     |     |
| Peak Hour Factor  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |     |     |     |
| Percent Heavy Veh, %  | 61   | 10   | 0    | 0    | 5    | 1    | 9    | 0    | 5    |     |     |     |
| Cap, veh/h  | 453  | 1394 | 0    | 0    | 2379 |      | 74   | 2    |      |     |     |     |
| Arrive On Green   | 0.03 | 0.53 | 0.00 | 0.00 | 0.69 | 0.00 | 0.04 | 0.04 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 949  | 1752 | 0    | 0    | 3561 | 1598 | 1775 | 36   | 1547 |     |     |     |
| Grp Volume(v), veh/h  | 48   | 312  | 0    | 0    | 439  | 0    | 50   | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 949  | 1752 | 0    | 0    | 1735 | 1598 | 1811 | 0    | 1547 |     |     |     |
| Q Serve(g_s), s   | 1.1  | 7.6  | 0.0  | 0.0  | 3.6  | 0.0  | 2.2  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 1.1  | 7.6  | 0.0  | 0.0  | 3.6  | 0.0  | 2.2  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      | 1.00 | 0.98 |      | 1.00 |     |     |     |
| Lane Grp Cap(c), veh/h  | 453  | 1394 | 0    | 0    | 2379 |      | 76   | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.11 | 0.22 | 0.00 | 0.00 | 0.18 |      | 0.66 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 527  | 1394 | 0    | 0    | 2379 |      | 419  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 0.67 | 0.67 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 2.9  | 5.6  | 0.0  | 0.0  | 4.5  | 0.0  | 37.8 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.1  | 0.4  | 0.0  | 0.0  | 0.2  | 0.0  | 9.3  | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 0.1  | 1.9  | 0.0  | 0.0  | 1.0  | 0.0  | 1.1  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 3.0  | 6.0  | 0.0  | 0.0  | 4.7  | 0.0  | 47.1 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | A    | A    | A    | A    |      | D    | A    |      |     |     |     |
| Approach Vol, veh/h   |      | 360  |      |      | 439  |      |      | 50   |      |     |     |     |
| Approach Delay, s/veh   |      | 5.6  |      |      | 4.7  |      |      | 47.1 |      |     |     |     |
| Approach LOS  |      | A    |      |      | A    |      |      | D    |      |     |     |     |
| Timer - Assigned Phs  |      | 2    |      |      | 5    | 6    |      | 8    |      |     |     |     |
| Phs Duration (G+Y+Rc), s  |      | 70.1 |      |      | 8.8  | 61.4 |      | 9.9  |      |     |     |     |
| Change Period (Y+Rc), s   |      | 6.5  |      |      | 5.5  | 6.5  |      | 6.5  |      |     |     |     |
| Max Green Setting (Gmax), s   |      | 48.5 |      |      | 9.5  | 33.5 |      | 18.5 |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  |      | 9.6  |      |      | 3.1  | 5.6  |      | 4.2  |      |     |     |     |
| Green Ext Time (p_c), s   |      | 2.0  |      |      | 0.0  | 3.0  |      | 0.1  |      |     |     |     |
| <b>Intersection Summary</b>   |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      |      | 7.6  |      |      |      |      |      |      |     |     |     |
| HCM 6th LOS   |      |      | A    |      |      |      |      |      |      |     |     |     |
| <b>Notes</b>  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

2040 Background  
AM Peak Hour



| Movement                         | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|----------------------------------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations              |      | ↑↑   | ↑    | ↑    | ↑    | ↑    |     |     |     | ↑↑   | ↑    |      |
| Traffic Volume (veh/h)           | 0    | 147  | 33   | 154  | 296  | 0    | 0   | 0   | 0   | 184  | 2    | 176  |
| Future Volume (veh/h)            | 0    | 147  | 33   | 154  | 296  | 0    | 0   | 0   | 0   | 184  | 2    | 176  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)              | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln           | 0    | 1411 | 1500 | 1781 | 1826 | 0    |     |     |     | 1796 | 1159 | 1663 |
| Adj Flow Rate, veh/h             | 0    | 160  | 0    | 167  | 322  | 0    |     |     |     | 200  | 2    | 0    |
| Peak Hour Factor                 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |     |     |     | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %             | 0    | 33   | 27   | 8    | 5    | 0    |     |     |     | 7    | 50   | 16   |
| Cap, veh/h                       | 0    | 1309 |      | 740  | 1144 | 0    |     |     |     | 231  | 2    |      |
| Arrive On Green                  | 0.00 | 0.49 | 0.00 | 0.07 | 0.63 | 0.00 |     |     |     | 0.21 | 0.21 | 0.00 |
| Sat Flow, veh/h                  | 0    | 2751 | 1271 | 1697 | 1826 | 0    |     |     |     | 1093 | 11   | 1409 |
| Grp Volume(v), veh/h             | 0    | 160  | 0    | 167  | 322  | 0    |     |     |     | 202  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln        | 0    | 1340 | 1271 | 1697 | 1826 | 0    |     |     |     | 1104 | 0    | 1409 |
| Q Serve(g_s), s                  | 0.0  | 2.6  | 0.0  | 3.6  | 6.4  | 0.0  |     |     |     | 14.1 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  | 2.6  | 0.0  | 3.6  | 6.4  | 0.0  |     |     |     | 14.1 | 0.0  | 0.0  |
| Prop In Lane                     | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.99 |      | 1.00 |
| Lane Grp Cap(c), veh/h           | 0    | 1309 |      | 740  | 1144 | 0    |     |     |     | 233  | 0    |      |
| V/C Ratio(X)                     | 0.00 | 0.12 |      | 0.23 | 0.28 | 0.00 |     |     |     | 0.87 | 0.00 |      |
| Avail Cap(c_a), veh/h            | 0    | 1309 |      | 760  | 1144 | 0    |     |     |     | 462  | 0    |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 0.00 | 1.00 | 0.00 | 0.99 | 0.99 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  | 11.1 | 0.0  | 7.9  | 6.8  | 0.0  |     |     |     | 30.5 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  | 0.2  | 0.0  | 0.2  | 0.6  | 0.0  |     |     |     | 9.4  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0     | 0.7  | 0.0  | 1.2  | 2.2  | 0.0  |      |     |     |     | 4.1  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh            | 0.0  | 11.3 | 0.0  | 8.0  | 7.4  | 0.0  |     |     |     | 39.9 | 0.0  | 0.0  |
| LnGrp LOS                        | A    | B    |      | A    | A    |      |     |     |     | D    | A    |      |
| Approach Vol, veh/h              |      | 160  |      |      | 489  |      |     |     |     | 202  |      |      |
| Approach Delay, s/veh            |      | 11.3 |      |      | 7.6  |      |     |     |     | 39.9 |      |      |
| Approach LOS                     |      | B    |      |      | A    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs             | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.0     | 45.6 |      |      | 23.4 |      | 56.6 |     |     |     |      |      |      |
| Change Period (Y+Rc), s          | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s      | 21.5 |      |      | 33.5 |      | 33.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l15), s    | 4.6  |      |      | 16.1 |      | 8.4  |     |     |     |      |      |      |
| Green Ext Time (p_c), s          | 0.0  | 0.8  |      | 0.9  |      | 1.9  |     |     |     |      |      |      |
| Intersection Summary             |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay               |      | 16.0 |      |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS                      |      | B    |      |      |      |      |     |     |     |      |      |      |
| Notes                            |      |      |      |      |      |      |     |     |     |      |      |      |

Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

**Intersection**

Intersection Delay, s/veh 5.4

Intersection LOS A

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 17    | 439   | 119   | 80    |
| Demand Flow Rate, veh/h     | 24    | 460   | 128   | 87    |
| Vehicles Circulating, veh/h | 438   | 15    | 98    | 375   |
| Vehicles Exiting, veh/h     | 24    | 211   | 364   | 100   |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 6.1   | 5.9   | 4.0   | 5.0   |
| Approach LOS                | A     | A     | A     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 24    | 460   | 128   | 87    |
| Cap Entry Lane, veh/h | 883   | 1359  | 1249  | 941   |
| Entry HV Adj Factor   | 0.708 | 0.954 | 0.929 | 0.918 |
| Flow Entry, veh/h     | 17    | 439   | 119   | 80    |
| Cap Entry, veh/h      | 625   | 1296  | 1160  | 865   |
| V/C Ratio             | 0.027 | 0.339 | 0.103 | 0.092 |
| Control Delay, s/veh  | 6.1   | 5.9   | 4.0   | 5.0   |
| LOS                   | A     | A     | A     | A     |
| 95th %tile Queue, veh | 0     | 2     | 0     | 0     |

| Intersection             |       |        |      |       |        |      |        |       |       |       |       |      |
|--------------------------|-------|--------|------|-------|--------|------|--------|-------|-------|-------|-------|------|
| Int Delay, s/veh         | 0.8   |        |      |       |        |      |        |       |       |       |       |      |
| Movement                 | EBL   | EBT    | EBR  | WBL   | WBT    | WBR  | NBL    | NBT   | NBR   | SBL   | SBT   | SBR  |
| Lane Configurations      | ↔     | ↑      | ↑    | ↔     | ↔      | ↔    | ↔      | ↔     | ↔     | ↔     | ↔     | ↔    |
| Traffic Vol, veh/h       | 0     | 98     | 0    | 27    | 253    | 1    | 1      | 0     | 8     | 0     | 0     | 1    |
| Future Vol, veh/h        | 0     | 98     | 0    | 27    | 253    | 1    | 1      | 0     | 8     | 0     | 0     | 1    |
| Conflicting Peds, #/hr   | 0     | 0      | 0    | 0     | 0      | 0    | 0      | 0     | 0     | 0     | 0     | 0    |
| Sign Control             | Free  | Free   | Free | Free  | Free   | Free | Stop   | Stop  | Stop  | Stop  | Stop  | Stop |
| RT Channelized           | -     | -      | None | -     | -      | None | -      | -     | None  | -     | -     | None |
| Storage Length           | -     | -      | -    | 300   | -      | -    | -      | -     | -     | -     | -     | -    |
| Veh in Median Storage, # | -     | 0      | -    | -     | 0      | -    | -      | 0     | -     | -     | 0     | -    |
| Grade, %                 | -     | 0      | -    | -     | 0      | -    | -      | 0     | -     | -     | 0     | -    |
| Peak Hour Factor         | 92    | 92     | 92   | 92    | 92     | 92   | 92     | 92    | 92    | 92    | 92    | 92   |
| Heavy Vehicles, %        | 2     | 5      | 2    | 9     | 3      | 0    | 100    | 2     | 57    | 2     | 2     | 0    |
| Mvmt Flow                | 0     | 107    | 0    | 29    | 275    | 1    | 1      | 0     | 9     | 0     | 0     | 1    |
| Major/Minor              |       |        |      |       |        |      |        |       |       |       |       |      |
| Major1                   |       | Major2 |      |       | Minor1 |      | Minor2 |       |       |       |       |      |
| Conflicting Flow All     | 276   | 0      | 0    | 107   | 0      | 0    | 441    | 441   | 107   | 446   | 441   | 276  |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 107    | 107   | -     | 334   | 334   | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 334    | 334   | -     | 112   | 107   | -    |
| Critical Hdwy            | 4.12  | -      | -    | 4.19  | -      | -    | 8.1    | 6.52  | 6.77  | 7.12  | 6.52  | 6.2  |
| Critical Hdwy Stg 1      | -     | -      | -    | -     | -      | -    | 7.1    | 5.52  | -     | 6.12  | 5.52  | -    |
| Critical Hdwy Stg 2      | -     | -      | -    | -     | -      | -    | 7.1    | 5.52  | -     | 6.12  | 5.52  | -    |
| Follow-up Hdwy           | 2.218 | -      | -    | 2.281 | -      | -    | 4.4    | 4.018 | 3.813 | 3.518 | 4.018 | 3.3  |
| Pot Cap-1 Maneuver       | 1287  | -      | -    | 1441  | -      | -    | 392    | 510   | 817   | 523   | 510   | 768  |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 707    | 807   | -     | 680   | 643   | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 516    | 643   | -     | 893   | 807   | -    |
| Platoon blocked, %       | -     | -      | -    | -     | -      | -    | -      | -     | -     | -     | -     | -    |
| Mov Cap-1 Maneuver       | 1287  | -      | -    | 1441  | -      | -    | 385    | 500   | 817   | 509   | 500   | 768  |
| Mov Cap-2 Maneuver       | -     | -      | -    | -     | -      | -    | 385    | 500   | -     | 509   | 500   | -    |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 707    | 807   | -     | 680   | 630   | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 505    | 630   | -     | 883   | 807   | -    |
| Approach                 |       |        |      |       |        |      |        |       |       |       |       |      |
| EB                       |       |        | WB   |       |        | NB   |        |       | SB    |       |       |      |
| HCM Control Delay, s     | 0     |        |      | 0.7   |        |      | 10     |       |       | 9.7   |       |      |
| HCM LOS                  |       |        |      |       |        |      | B      |       |       | A     |       |      |
| Minor Lane/Major Mvmt    |       |        |      |       |        |      |        |       |       |       |       |      |
| NBLn1                    |       | EBL    | EBT  | EBR   | WBL    | WBT  | WBR    | SBLn1 |       |       |       |      |
| Capacity (veh/h)         | 726   | 1287   | -    | -     | 1441   | -    | -      | 768   |       |       |       |      |
| HCM Lane V/C Ratio       | 0.013 | -      | -    | -     | 0.02   | -    | -      | 0.001 |       |       |       |      |
| HCM Control Delay (s)    | 10    | 0      | -    | -     | 7.5    | -    | -      | 9.7   |       |       |       |      |
| HCM Lane LOS             | B     | A      | -    | -     | A      | -    | -      | A     |       |       |       |      |
| HCM 95th %tile Q(veh)    | 0     | 0      | -    | -     | 0.1    | -    | -      | 0     |       |       |       |      |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 8.7    |        |        |      |       |      |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR  |
| Lane Configurations      | ↑      |        | ↑      | ↑    | ↑     | ↑    |
| Traffic Vol, veh/h       | 5      | 0      | 255    | 5    | 0     | 85   |
| Future Vol, veh/h        | 5      | 0      | 255    | 5    | 0     | 85   |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop |
| RT Channelized           | -      | None   | -      | None | -     | Free |
| Storage Length           | -      | -      | 350    | -    | 0     | 0    |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -    |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -    |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92   |
| Heavy Vehicles, %        | 0      | 2      | 100    | 0    | 2     | 67   |
| Mvmt Flow                | 5      | 0      | 277    | 5    | 0     | 92   |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |      |
| Conflicting Flow All     | 0      | 0      | 5      | 0    | 564   | -    |
| Stage 1                  | -      | -      | -      | -    | 5     | -    |
| Stage 2                  | -      | -      | -      | -    | 559   | -    |
| Critical Hdwy            | -      | -      | 5.1    | -    | 6.42  | -    |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -    |
| Follow-up Hdwy           | -      | -      | 3.1    | -    | 3.518 | -    |
| Pot Cap-1 Maneuver       | -      | -      | 1156   | -    | 487   | 0    |
| Stage 1                  | -      | -      | -      | -    | 1018  | 0    |
| Stage 2                  | -      | -      | -      | -    | 572   | 0    |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -    |
| Mov Cap-1 Maneuver       | -      | -      | 1156   | -    | 370   | -    |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 370   | -    |
| Stage 1                  | -      | -      | -      | -    | 1018  | -    |
| Stage 2                  | -      | -      | -      | -    | 435   | -    |
| Approach                 | EB     | WB     | NB     |      |       |      |
| HCM Control Delay, s     | 0      | 8.9    | 0      |      |       |      |
| HCM LOS                  |        |        | A      |      |       |      |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT  |
| Capacity (veh/h)         | -      | -      | -      | -    | 1156  | -    |
| HCM Lane V/C Ratio       | -      | -      | -      | -    | 0.24  | -    |
| HCM Control Delay (s)    | 0      | 0      | -      | -    | 9.1   | -    |
| HCM Lane LOS             | A      | A      | -      | -    | A     | -    |
| HCM 95th %tile Q(veh)    | -      | -      | -      | -    | 0.9   | -    |

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

2040 Background  
PM Peak Hour

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   | ↑    | ↑    |      |      | ↑↑   | ↑    |      | ↑    | ↑    |     |     |     |
| Traffic Volume (veh/h)  | 219  | 728  | 0    | 0    | 191  | 77   | 26   | 30   | 564  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 219  | 728  | 0    | 0    | 191  | 77   | 26   | 30   | 564  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 1826 | 1870 | 0    | 0    | 1796 | 1781 | 1455 | 1900 | 1781 |     |     |     |
| Adj Flow Rate, veh/h  | 238  | 791  | 0    | 0    | 208  | 0    | 28   | 33   | 0    |     |     |     |
| Peak Hour Factor  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |     |     |     |
| Percent Heavy Veh, %  | 5    | 2    | 0    | 0    | 7    | 8    | 30   | 0    | 8    |     |     |     |
| Cap, veh/h  | 954  | 1518 | 0    | 0    | 2350 |      | 37   | 44   |      |     |     |     |
| Arrive On Green   | 0.08 | 1.00 | 0.00 | 0.00 | 0.69 | 0.00 | 0.04 | 0.04 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 1739 | 1870 | 0    | 0    | 3503 | 1510 | 853  | 1005 | 1510 |     |     |     |
| Grp Volume(v), veh/h  | 238  | 791  | 0    | 0    | 208  | 0    | 61   | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 1739 | 1870 | 0    | 0    | 1706 | 1510 | 1857 | 0    | 1510 |     |     |     |
| Q Serve(g_s), s   | 3.3  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | 2.9  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 3.3  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | 2.9  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      | 1.00 | 0.46 |      | 1.00 |     |     |     |
| Lane Grp Cap(c), veh/h  | 954  | 1518 | 0    | 0    | 2350 |      | 81   | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.25 | 0.52 | 0.00 | 0.00 | 0.09 |      | 0.75 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 1030 | 1518 | 0    | 0    | 2350 |      | 279  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 1.33 | 1.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 0.89 | 0.89 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 2.7  | 0.0  | 0.0  | 0.0  | 4.6  | 0.0  | 42.6 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.1  | 1.1  | 0.0  | 0.0  | 0.1  | 0.0  | 13.0 | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 0.7  | 0.5  | 0.0  | 0.0  | 0.5  | 0.0  | 1.6  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 2.9  | 1.1  | 0.0  | 0.0  | 4.7  | 0.0  | 55.5 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | A    | A    | A    | A    |      | E    | A    |      |     |     |     |
| Approach Vol, veh/h   | 1029 |      |      |      | 208  |      |      | 61   |      |     |     |     |
| Approach Delay, s/veh   |      | 1.5  |      |      | 4.7  |      |      | 55.5 |      |     |     |     |
| Approach LOS  |      | A    |      |      | A    |      |      | E    |      |     |     |     |
| Timer - Assigned Phs  | 2    |      |      |      | 5    | 6    |      | 8    |      |     |     |     |
| Phs Duration (G+Y+Rc), s  | 79.6 |      |      |      | 11.1 | 68.5 |      | 10.4 |      |     |     |     |
| Change Period (Y+Rc), s   | 6.5  |      |      |      | 5.5  | 6.5  |      | 6.5  |      |     |     |     |
| Max Green Setting (Gmax), s   | 63.5 |      |      |      | 9.5  | 48.5 |      | 13.5 |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  | 2.0  |      |      |      | 5.3  | 3.8  |      | 4.9  |      |     |     |     |
| Green Ext Time (p_c), s   | 6.9  |      |      |      | 0.3  | 1.4  |      | 0.1  |      |     |     |     |
| Intersection Summary  |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      |      |      | 4.6  |      |      |      |      |      |     |     |     |
| HCM 6th LOS   |      |      |      | A    |      |      |      |      |      |     |     |     |
| Notes   |      |      |      |      |      |      |      |      |      |     |     |     |
| User approved pedestrian interval to be less than phase max green.  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

2040 Background  
PM Peak Hour



| Movement                         | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|----------------------------------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations              |      | ↑↑   | ↑    | ↑    | ↑    | ↑    |     |     |     | ↑↑   | ↑    |      |
| Traffic Volume (veh/h)           | 0    | 661  | 174  | 155  | 62   | 0    | 0   | 0   | 0   | 286  | 5    | 165  |
| Future Volume (veh/h)            | 0    | 661  | 174  | 155  | 62   | 0    | 0   | 0   | 0   | 286  | 5    | 165  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)              | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln           | 0    | 1856 | 1767 | 1826 | 1500 | 0    |     |     |     | 1885 | 1870 | 1796 |
| Adj Flow Rate, veh/h             | 0    | 718  | 0    | 168  | 67   | 0    |     |     |     | 311  | 5    | 0    |
| Peak Hour Factor                 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |     |     |     | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %             | 0    | 3    | 9    | 5    | 27   | 0    |     |     |     | 1    | 2    | 7    |
| Cap, veh/h                       | 0    | 1834 |      | 475  | 967  | 0    |     |     |     | 369  | 6    |      |
| Arrive On Green                  | 0.00 | 0.52 | 0.00 | 0.06 | 0.64 | 0.00 |     |     |     | 0.21 | 0.21 | 0.00 |
| Sat Flow, veh/h                  | 0    | 3618 | 1497 | 1739 | 1500 | 0    |     |     |     | 1754 | 28   | 1522 |
| Grp Volume(v), veh/h             | 0    | 718  | 0    | 168  | 67   | 0    |     |     |     | 316  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln        | 0    | 1763 | 1497 | 1739 | 1500 | 0    |     |     |     | 1783 | 0    | 1522 |
| Q Serve(g_s), s                  | 0.0  | 11.0 | 0.0  | 3.8  | 1.5  | 0.0  |     |     |     | 15.3 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  | 11.0 | 0.0  | 3.8  | 1.5  | 0.0  |     |     |     | 15.3 | 0.0  | 0.0  |
| Prop In Lane                     | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.98 |      | 1.00 |
| Lane Grp Cap(c), veh/h           | 0    | 1834 |      | 475  | 967  | 0    |     |     |     | 375  | 0    |      |
| V/C Ratio(X)                     | 0.00 | 0.39 |      | 0.35 | 0.07 | 0.00 |     |     |     | 0.84 | 0.00 |      |
| Avail Cap(c_a), veh/h            | 0    | 1834 |      | 490  | 967  | 0    |     |     |     | 763  | 0    |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  | 13.0 | 0.0  | 9.0  | 5.9  | 0.0  |     |     |     | 34.1 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  | 0.6  | 0.0  | 0.4  | 0.1  | 0.0  |     |     |     | 5.1  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0     | 4.2  | 0.0  | 1.3  | 0.4  | 0.0  |      |     |     |     | 6.7  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh            | 0.0  | 13.6 | 0.0  | 9.4  | 6.1  | 0.0  |     |     |     | 39.2 | 0.0  | 0.0  |
| LnGrp LOS                        | A    | B    |      | A    | A    |      |     |     |     | D    | A    |      |
| Approach Vol, veh/h              |      | 718  |      |      | 235  |      |     |     |     | 316  |      |      |
| Approach Delay, s/veh            |      | 13.6 |      |      | 8.5  |      |     |     |     | 39.2 |      |      |
| Approach LOS                     |      | B    |      |      | A    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs             | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.2     |      | 53.3 |      | 25.5 |      | 64.5 |     |     |     |      |      |      |
| Change Period (Y+Rc), s          | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s      | 5.5  | 26.5 |      | 38.5 |      | 38.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s      | 5.5  | 13.0 |      | 17.3 |      | 3.5  |     |     |     |      |      |      |
| Green Ext Time (p_c), s          | 0.0  | 4.0  |      | 1.7  |      | 0.3  |     |     |     |      |      |      |
| Intersection Summary             |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay               |      | 19.1 |      |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS                      |      | B    |      |      |      |      |     |     |     |      |      |      |
| Notes                            |      |      |      |      |      |      |     |     |     |      |      |      |

Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

**Intersection**

Intersection Delay, s/veh 8.2

Intersection LOS A

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 24    | 144   | 665   | 80    |
| Demand Flow Rate, veh/h     | 25    | 158   | 665   | 86    |
| Vehicles Circulating, veh/h | 203   | 12    | 158   | 130   |
| Vehicles Exiting, veh/h     | 13    | 811   | 70    | 40    |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 3.5   | 3.9   | 9.8   | 3.8   |
| Approach LOS                | A     | A     | A     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 25    | 158   | 665   | 86    |
| Cap Entry Lane, veh/h | 1122  | 1363  | 1174  | 1209  |
| Entry HV Adj Factor   | 0.960 | 0.912 | 1.000 | 0.930 |
| Flow Entry, veh/h     | 24    | 144   | 665   | 80    |
| Cap Entry, veh/h      | 1077  | 1243  | 1174  | 1124  |
| V/C Ratio             | 0.022 | 0.116 | 0.566 | 0.071 |
| Control Delay, s/veh  | 3.5   | 3.9   | 9.8   | 3.8   |
| LOS                   | A     | A     | A     | A     |
| 95th %tile Queue, veh | 0     | 0     | 4     | 0     |

| Intersection             |       |        |      |      |        |      |       |        |      |       |       |       |
|--------------------------|-------|--------|------|------|--------|------|-------|--------|------|-------|-------|-------|
| Int Delay, s/veh         | 0.3   |        |      |      |        |      |       |        |      |       |       |       |
| Movement                 | EBL   | EBT    | EBR  | WBL  | WBT    | WBR  | NBL   | NBT    | NBR  | SBL   | SBT   | SBR   |
| Lane Configurations      | ↔     |        |      | ↑    | ↑      |      | ↔     | ↔      |      | ↔     | ↔     |       |
| Traffic Vol, veh/h       | 0     | 495    | 0    | 1    | 57     | 0    | 0     | 0      | 15   | 0     | 0     | 0     |
| Future Vol, veh/h        | 0     | 495    | 0    | 1    | 57     | 0    | 0     | 0      | 15   | 0     | 0     | 0     |
| Conflicting Peds, #/hr   | 0     | 0      | 0    | 0    | 0      | 0    | 0     | 0      | 0    | 0     | 0     | 0     |
| Sign Control             | Free  | Free   | Free | Free | Free   | Free | Stop  | Stop   | Stop | Stop  | Stop  | Stop  |
| RT Channelized           | -     | -      | None | -    | -      | None | -     | -      | None | -     | -     | None  |
| Storage Length           | -     | -      | -    | 300  | -      | -    | -     | -      | -    | -     | -     | -     |
| Veh in Median Storage, # | -     | 0      | -    | -    | 0      | -    | -     | 0      | -    | -     | 0     | -     |
| Grade, %                 | -     | 0      | -    | -    | 0      | -    | -     | 0      | -    | -     | 0     | -     |
| Peak Hour Factor         | 92    | 92     | 92   | 92   | 92     | 92   | 92    | 92     | 92   | 92    | 92    | 92    |
| Heavy Vehicles, %        | 2     | 0      | 2    | 0    | 12     | 2    | 2     | 2      | 0    | 2     | 2     | 2     |
| Mvmt Flow                | 0     | 538    | 0    | 1    | 62     | 0    | 0     | 0      | 16   | 0     | 0     | 0     |
| Major/Minor              |       |        |      |      |        |      |       |        |      |       |       |       |
| Major1                   |       | Major2 |      |      | Minor1 |      |       | Minor2 |      |       |       |       |
| Conflicting Flow All     | 62    | 0      | 0    | 538  | 0      | 0    | 602   | 602    | 538  | 610   | 602   | 62    |
| Stage 1                  | -     | -      | -    | -    | -      | -    | 538   | 538    | -    | 64    | 64    | -     |
| Stage 2                  | -     | -      | -    | -    | -      | -    | 64    | 64     | -    | 546   | 538   | -     |
| Critical Hdwy            | 4.12  | -      | -    | 4.1  | -      | -    | 7.12  | 6.52   | 6.2  | 7.12  | 6.52  | 6.22  |
| Critical Hdwy Stg 1      | -     | -      | -    | -    | -      | -    | 6.12  | 5.52   | -    | 6.12  | 5.52  | -     |
| Critical Hdwy Stg 2      | -     | -      | -    | -    | -      | -    | 6.12  | 5.52   | -    | 6.12  | 5.52  | -     |
| Follow-up Hdwy           | 2.218 | -      | -    | 2.2  | -      | -    | 3.518 | 4.018  | 3.3  | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver       | 1541  | -      | -    | 1040 | -      | -    | 412   | 414    | 547  | 407   | 414   | 1003  |
| Stage 1                  | -     | -      | -    | -    | -      | -    | 527   | 522    | -    | 947   | 842   | -     |
| Stage 2                  | -     | -      | -    | -    | -      | -    | 947   | 842    | -    | 522   | 522   | -     |
| Platoon blocked, %       | -     | -      | -    | -    | -      | -    | -     | -      | -    | -     | -     | -     |
| Mov Cap-1 Maneuver       | 1541  | -      | -    | 1040 | -      | -    | 412   | 414    | 547  | 394   | 414   | 1003  |
| Mov Cap-2 Maneuver       | -     | -      | -    | -    | -      | -    | 412   | 414    | -    | 394   | 414   | -     |
| Stage 1                  | -     | -      | -    | -    | -      | -    | 527   | 522    | -    | 947   | 841   | -     |
| Stage 2                  | -     | -      | -    | -    | -      | -    | 946   | 841    | -    | 506   | 522   | -     |
| Approach                 |       |        |      |      |        |      |       |        |      |       |       |       |
| EB                       |       |        | WB   |      |        | NB   |       |        | SB   |       |       |       |
| HCM Control Delay, s     | 0     |        |      | 0.1  |        |      | 11.8  |        |      | 0     |       |       |
| HCM LOS                  |       |        |      |      |        |      | B     |        |      | A     |       |       |
| Minor Lane/Major Mvmt    |       |        |      |      |        |      |       |        |      |       |       |       |
| NBLn1                    |       | EBL    | EBT  | EBR  | WBL    | WBT  | WBR   | SBLn1  |      |       |       |       |
| Capacity (veh/h)         | 547   | 1541   | -    | -    | 1040   | -    | -     | -      |      |       |       |       |
| HCM Lane V/C Ratio       | 0.03  | -      | -    | -    | 0.001  | -    | -     | -      |      |       |       |       |
| HCM Control Delay (s)    | 11.8  | 0      | -    | -    | 8.5    | -    | -     | 0      |      |       |       |       |
| HCM Lane LOS             | B     | A      | -    | -    | A      | -    | -     | A      |      |       |       |       |
| HCM 95th %tile Q(veh)    | 0.1   | 0      | -    | -    | 0      | -    | -     | -      |      |       |       |       |

Intersection

Int Delay, s/veh 6.2

| Movement                 | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | ↑    |      | ↑    | ↑    | ↑    | ↑    |
| Traffic Vol, veh/h       | 5    | 0    | 43   | 5    | 0    | 472  |
| Future Vol, veh/h        | 5    | 0    | 43   | 5    | 0    | 472  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop | Stop |
| RT Channelized           | -    | None | -    | None | -    | Free |
| Storage Length           | -    | -    | 350  | -    | 0    | 0    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | 0    | -    | -    | 0    | 0    | -    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 0    | 2    | 33   | 6    | 2    | 17   |
| Mvmt Flow                | 5    | 0    | 47   | 5    | 0    | 513  |

| Major/Minor          | Major1 | Major2 | Minor1 |   |       |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 0      | 0      | 5      | 0 | 104   |
| Stage 1              | -      | -      | -      | - | 5     |
| Stage 2              | -      | -      | -      | - | 99    |
| Critical Hdwy        | -      | -      | 4.43   | - | 6.42  |
| Critical Hdwy Stg 1  | -      | -      | -      | - | 5.42  |
| Critical Hdwy Stg 2  | -      | -      | -      | - | 5.42  |
| Follow-up Hdwy       | -      | -      | 2.497  | - | 3.518 |
| Pot Cap-1 Maneuver   | -      | -      | 1435   | - | 894   |
| Stage 1              | -      | -      | -      | - | 1018  |
| Stage 2              | -      | -      | -      | - | 925   |
| Platoon blocked, %   | -      | -      | -      | - | -     |
| Mov Cap-1 Maneuver   | -      | -      | 1435   | - | 864   |
| Mov Cap-2 Maneuver   | -      | -      | -      | - | 864   |
| Stage 1              | -      | -      | -      | - | 1018  |
| Stage 2              | -      | -      | -      | - | 894   |

| Approach             | EB | WB  | NB |
|----------------------|----|-----|----|
| HCM Control Delay, s | 0  | 6.8 | 0  |
| HCM LOS              |    | A   |    |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBT | EBR | WBL   | WBT |
|-----------------------|-------|-------|-----|-----|-------|-----|
| Capacity (veh/h)      | -     | -     | -   | -   | 1435  | -   |
| HCM Lane V/C Ratio    | -     | -     | -   | -   | 0.033 | -   |
| HCM Control Delay (s) | 0     | 0     | -   | -   | 7.6   | -   |
| HCM Lane LOS          | A     | A     | -   | -   | A     | -   |
| HCM 95th %tile Q(veh) | -     | -     | -   | -   | 0.1   | -   |

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

2045 Background  
AM Peak Hour

| Movement  | EBL  | EBT  | EBC  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   | ↑    | ↑    |      |      | ↑↑   | ↑    |      | ↑    | ↑    |     |     |     |
| Traffic Volume (veh/h)  | 42   | 272  | 0    | 0    | 370  | 452  | 41   | 1    | 360  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 42   | 272  | 0    | 0    | 370  | 452  | 41   | 1    | 360  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 996  | 1752 | 0    | 0    | 1826 | 1885 | 1767 | 1900 | 1826 |     |     |     |
| Adj Flow Rate, veh/h  | 44   | 286  | 0    | 0    | 389  | 0    | 43   | 1    | 0    |     |     |     |
| Peak Hour Factor  | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |     |     |     |
| Percent Heavy Veh, %  | 61   | 10   | 0    | 0    | 5    | 1    | 9    | 0    | 5    |     |     |     |
| Cap, veh/h  | 472  | 1399 | 0    | 0    | 2396 |      | 69   | 2    |      |     |     |     |
| Arrive On Green   | 0.03 | 0.54 | 0.00 | 0.00 | 0.69 | 0.00 | 0.04 | 0.04 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 949  | 1752 | 0    | 0    | 3561 | 1598 | 1770 | 41   | 1547 |     |     |     |
| Grp Volume(v), veh/h  | 44   | 286  | 0    | 0    | 389  | 0    | 44   | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 949  | 1752 | 0    | 0    | 1735 | 1598 | 1811 | 0    | 1547 |     |     |     |
| Q Serve(g_s), s   | 1.0  | 6.8  | 0.0  | 0.0  | 3.1  | 0.0  | 1.9  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 1.0  | 6.8  | 0.0  | 0.0  | 3.1  | 0.0  | 1.9  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      | 1.00 | 0.98 |      | 1.00 |     |     |     |
| Lane Grp Cap(c), veh/h  | 472  | 1399 | 0    | 0    | 2396 |      | 71   | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.09 | 0.20 | 0.00 | 0.00 | 0.16 |      | 0.62 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 548  | 1399 | 0    | 0    | 2396 |      | 419  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 0.67 | 0.67 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 2.7  | 5.3  | 0.0  | 0.0  | 4.3  | 0.0  | 37.9 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.1  | 0.3  | 0.0  | 0.0  | 0.1  | 0.0  | 8.7  | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 0.1  | 1.6  | 0.0  | 0.0  | 0.9  | 0.0  | 1.0  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 2.8  | 5.7  | 0.0  | 0.0  | 4.5  | 0.0  | 46.5 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | A    | A    | A    | A    |      | D    | A    |      |     |     |     |
| Approach Vol, veh/h   |      | 330  |      |      | 389  |      | 44   |      |      |     |     |     |
| Approach Delay, s/veh   |      | 5.3  |      |      | 4.5  |      | 46.5 |      |      |     |     |     |
| Approach LOS  |      | A    |      |      | A    |      | D    |      |      |     |     |     |
| Timer - Assigned Phs  |      | 2    |      |      | 5    | 6    | 8    |      |      |     |     |     |
| Phs Duration (G+Y+Rc), s  |      | 70.4 |      |      | 8.6  | 61.8 | 9.6  |      |      |     |     |     |
| Change Period (Y+Rc), s   |      | 6.5  |      |      | 5.5  | 6.5  | 6.5  |      |      |     |     |     |
| Max Green Setting (Gmax), s   |      | 48.5 |      |      | 9.5  | 33.5 | 18.5 |      |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  |      | 8.8  |      |      | 3.0  | 5.1  | 3.9  |      |      |     |     |     |
| Green Ext Time (p_c), s   |      | 1.8  |      |      | 0.0  | 2.6  | 0.1  |      |      |     |     |     |
| <b>Intersection Summary</b>   |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      | 7.2  |      |      |      |      |      |      |      |     |     |     |
| HCM 6th LOS   |      | A    |      |      |      |      |      |      |      |     |     |     |
| <b>Notes</b>  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

2045 Background  
AM Peak Hour



| Movement                         | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|----------------------------------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations              |      | ↑↑   |      | ↑    | ↑    |      |     |     |     | ↑↑   | ↑    |      |
| Traffic Volume (veh/h)           | 0    | 119  | 27   | 163  | 249  | 0    | 0   | 0   | 0   | 195  | 3    | 148  |
| Future Volume (veh/h)            | 0    | 119  | 27   | 163  | 249  | 0    | 0   | 0   | 0   | 195  | 3    | 148  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)              | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln           | 0    | 1411 | 1500 | 1781 | 1826 | 0    |     |     |     | 1796 | 1159 | 1663 |
| Adj Flow Rate, veh/h             | 0    | 125  | 0    | 172  | 262  | 0    |     |     |     | 205  | 3    | 0    |
| Peak Hour Factor                 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |     |     |     | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, %             | 0    | 33   | 27   | 8    | 5    | 0    |     |     |     | 7    | 50   | 16   |
| Cap, veh/h                       | 0    | 1288 |      | 760  | 1134 | 0    |     |     |     | 236  | 3    |      |
| Arrive On Green                  | 0.00 | 0.48 | 0.00 | 0.07 | 0.62 | 0.00 |     |     |     | 0.22 | 0.22 | 0.00 |
| Sat Flow, veh/h                  | 0    | 2751 | 1271 | 1697 | 1826 | 0    |     |     |     | 1089 | 16   | 1409 |
| Grp Volume(v), veh/h             | 0    | 125  | 0    | 172  | 262  | 0    |     |     |     | 208  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln        | 0    | 1340 | 1271 | 1697 | 1826 | 0    |     |     |     | 1105 | 0    | 1409 |
| Q Serve(g_s), s                  | 0.0  | 2.0  | 0.0  | 3.8  | 5.1  | 0.0  |     |     |     | 14.5 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  | 2.0  | 0.0  | 3.8  | 5.1  | 0.0  |     |     |     | 14.5 | 0.0  | 0.0  |
| Prop In Lane                     | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.99 |      | 1.00 |
| Lane Grp Cap(c), veh/h           | 0    | 1288 |      | 760  | 1134 | 0    |     |     |     | 239  | 0    |      |
| V/C Ratio(X)                     | 0.00 | 0.10 |      | 0.23 | 0.23 | 0.00 |     |     |     | 0.87 | 0.00 |      |
| Avail Cap(c_a), veh/h            | 0    | 1288 |      | 777  | 1134 | 0    |     |     |     | 463  | 0    |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 0.00 | 1.00 | 0.00 | 0.99 | 0.99 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  | 11.3 | 0.0  | 8.1  | 6.7  | 0.0  |     |     |     | 30.2 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  | 0.2  | 0.0  | 0.1  | 0.5  | 0.0  |     |     |     | 9.3  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0     | 0.6  | 0.0  | 1.2  | 1.8  | 0.0  |      |     |     |     | 4.2  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh            | 0.0  | 11.5 | 0.0  | 8.2  | 7.2  | 0.0  |     |     |     | 39.6 | 0.0  | 0.0  |
| LnGrp LOS                        | A    | B    |      | A    | A    | A    |     |     |     | D    | A    |      |
| Approach Vol, veh/h              | 125  |      |      | 434  |      |      |     |     |     | 208  |      |      |
| Approach Delay, s/veh            | 11.5 |      |      | 7.6  |      |      |     |     |     | 39.6 |      |      |
| Approach LOS                     | B    |      |      | A    |      |      |     |     |     | D    |      |      |
| Timer - Assigned Phs             | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.2     | 44.9 |      |      | 23.8 |      | 56.2 |     |     |     |      |      |      |
| Change Period (Y+Rc), s          | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s      | 5.5  | 21.5 |      | 33.5 |      | 33.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s      | 5.5  | 4.0  |      | 16.5 |      | 7.1  |     |     |     |      |      |      |
| Green Ext Time (p_c), s          | 0.0  | 0.6  |      | 1.0  |      | 1.5  |     |     |     |      |      |      |
| Intersection Summary             |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay               |      | 16.9 |      |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS                      |      | B    |      |      |      |      |     |     |     |      |      |      |
| Notes                            |      |      |      |      |      |      |     |     |     |      |      |      |

Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

**Intersection**

Intersection Delay, s/veh 4.8

Intersection LOS A

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 16    | 341   | 75    | 82    |
| Demand Flow Rate, veh/h     | 22    | 358   | 80    | 90    |
| Vehicles Circulating, veh/h | 336   | 15    | 97    | 272   |
| Vehicles Exiting, veh/h     | 26    | 162   | 261   | 101   |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 5.3   | 5.1   | 3.6   | 4.6   |
| Approach LOS                | A     | A     | A     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 22    | 358   | 80    | 90    |
| Cap Entry Lane, veh/h | 980   | 1359  | 1250  | 1046  |
| Entry HV Adj Factor   | 0.727 | 0.952 | 0.936 | 0.910 |
| Flow Entry, veh/h     | 16    | 341   | 75    | 82    |
| Cap Entry, veh/h      | 712   | 1294  | 1170  | 951   |
| V/C Ratio             | 0.022 | 0.263 | 0.064 | 0.086 |
| Control Delay, s/veh  | 5.3   | 5.1   | 3.6   | 4.6   |
| LOS                   | A     | A     | A     | A     |
| 95th %tile Queue, veh | 0     | 1     | 0     | 0     |

| Intersection             |       |        |      |       |        |      |      |        |       |       |       |      |
|--------------------------|-------|--------|------|-------|--------|------|------|--------|-------|-------|-------|------|
| Int Delay, s/veh         | 1.2   |        |      |       |        |      |      |        |       |       |       |      |
| Movement                 | EBL   | EBT    | EBR  | WBL   | WBT    | WBR  | NBL  | NBT    | NBR   | SBL   | SBT   | SBR  |
| Lane Configurations      | ↔     | ↑      | ↑    |       |        |      | ↔    | ↔      |       |       | ↔     |      |
| Traffic Vol, veh/h       | 0     | 59     | 0    | 28    | 165    | 1    | 1    | 0      | 9     | 0     | 0     | 1    |
| Future Vol, veh/h        | 0     | 59     | 0    | 28    | 165    | 1    | 1    | 0      | 9     | 0     | 0     | 1    |
| Conflicting Peds, #/hr   | 0     | 0      | 0    | 0     | 0      | 0    | 0    | 0      | 0     | 0     | 0     | 0    |
| Sign Control             | Free  | Free   | Free | Free  | Free   | Free | Stop | Stop   | Stop  | Stop  | Stop  | Stop |
| RT Channelized           | -     | -      | None | -     | -      | None | -    | -      | None  | -     | -     | None |
| Storage Length           | -     | -      | -    | 300   | -      | -    | -    | -      | -     | -     | -     | -    |
| Veh in Median Storage, # | -     | 0      | -    | -     | 0      | -    | -    | 0      | -     | -     | 0     | -    |
| Grade, %                 | -     | 0      | -    | -     | 0      | -    | -    | 0      | -     | -     | 0     | -    |
| Peak Hour Factor         | 95    | 95     | 95   | 95    | 95     | 95   | 95   | 95     | 95    | 95    | 95    | 95   |
| Heavy Vehicles, %        | 2     | 5      | 2    | 9     | 3      | 0    | 100  | 2      | 57    | 2     | 2     | 0    |
| Mvmt Flow                | 0     | 62     | 0    | 29    | 174    | 1    | 1    | 0      | 9     | 0     | 0     | 1    |
| Major/Minor              |       |        |      |       |        |      |      |        |       |       |       |      |
| Major1                   |       | Major2 |      |       | Minor1 |      |      | Minor2 |       |       |       |      |
| Conflicting Flow All     | 175   | 0      | 0    | 62    | 0      | 0    | 295  | 295    | 62    | 300   | 295   | 175  |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 62   | 62     | -     | 233   | 233   | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 233  | 233    | -     | 67    | 62    | -    |
| Critical Hdwy            | 4.12  | -      | -    | 4.19  | -      | -    | 8.1  | 6.52   | 6.77  | 7.12  | 6.52  | 6.2  |
| Critical Hdwy Stg 1      | -     | -      | -    | -     | -      | -    | 7.1  | 5.52   | -     | 6.12  | 5.52  | -    |
| Critical Hdwy Stg 2      | -     | -      | -    | -     | -      | -    | 7.1  | 5.52   | -     | 6.12  | 5.52  | -    |
| Follow-up Hdwy           | 2.218 | -      | -    | 2.281 | -      | -    | 4.4  | 4.018  | 3.813 | 3.518 | 4.018 | 3.3  |
| Pot Cap-1 Maneuver       | 1401  | -      | -    | 1497  | -      | -    | 502  | 616    | 868   | 652   | 616   | 874  |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 752  | 843    | -     | 770   | 712   | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 594  | 712    | -     | 943   | 843   | -    |
| Platoon blocked, %       | -     | -      | -    | -     | -      | -    | -    | -      | -     | -     | -     | -    |
| Mov Cap-1 Maneuver       | 1401  | -      | -    | 1497  | -      | -    | 494  | 604    | 868   | 635   | 604   | 874  |
| Mov Cap-2 Maneuver       | -     | -      | -    | -     | -      | -    | 494  | 604    | -     | 635   | 604   | -    |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 752  | 843    | -     | 770   | 698   | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 582  | 698    | -     | 933   | 843   | -    |
| Approach                 |       |        |      |       |        |      |      |        |       |       |       |      |
| EB                       |       |        | WB   |       |        | NB   |      |        | SB    |       |       |      |
| HCM Control Delay, s     | 0     |        |      | 1.1   |        |      | 9.5  |        |       | 9.1   |       |      |
| HCM LOS                  |       |        |      |       |        |      | A    |        |       | A     |       |      |
| Minor Lane/Major Mvmt    |       |        |      |       |        |      |      |        |       |       |       |      |
| NBLn1                    |       | EBL    | EBT  | EBR   | WBL    | WBT  | WBR  | SBLn1  |       |       |       |      |
| Capacity (veh/h)         | 807   | 1401   | -    | -     | 1497   | -    | -    | 874    |       |       |       |      |
| HCM Lane V/C Ratio       | 0.013 | -      | -    | -     | 0.02   | -    | -    | 0.001  |       |       |       |      |
| HCM Control Delay (s)    | 9.5   | 0      | -    | -     | 7.5    | -    | -    | 9.1    |       |       |       |      |
| HCM Lane LOS             | A     | A      | -    | -     | A      | -    | -    | A      |       |       |       |      |
| HCM 95th %tile Q(veh)    | 0     | 0      | -    | -     | 0.1    | -    | -    | 0      |       |       |       |      |

Intersection

Int Delay, s/veh 8.2

| Movement                 | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | ↑    |      | ↑    | ↑    | ↑    | ↑    |
| Traffic Vol, veh/h       | 5    | 0    | 163  | 5    | 0    | 54   |
| Future Vol, veh/h        | 5    | 0    | 163  | 5    | 0    | 54   |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop | Stop |
| RT Channelized           | -    | None | -    | None | -    | Free |
| Storage Length           | -    | -    | 350  | -    | 0    | 0    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | 0    | -    | -    | 0    | 0    | -    |
| Peak Hour Factor         | 95   | 95   | 95   | 95   | 95   | 95   |
| Heavy Vehicles, %        | 0    | 2    | 100  | 0    | 2    | 67   |
| Mvmt Flow                | 5    | 0    | 172  | 5    | 0    | 57   |

| Major/Minor          | Major1 | Major2 | Minor1 |           |
|----------------------|--------|--------|--------|-----------|
| Conflicting Flow All | 0      | 0      | 5      | 0 354 -   |
| Stage 1              | -      | -      | -      | - 5 -     |
| Stage 2              | -      | -      | -      | - 349 -   |
| Critical Hdwy        | -      | -      | 5.1    | - 6.42 -  |
| Critical Hdwy Stg 1  | -      | -      | -      | - 5.42 -  |
| Critical Hdwy Stg 2  | -      | -      | -      | - 5.42 -  |
| Follow-up Hdwy       | -      | -      | 3.1    | - 3.518 - |
| Pot Cap-1 Maneuver   | -      | -      | 1156   | - 644 0   |
| Stage 1              | -      | -      | -      | - 1018 0  |
| Stage 2              | -      | -      | -      | - 714 0   |
| Platoon blocked, %   | -      | -      | -      | -         |
| Mov Cap-1 Maneuver   | -      | -      | 1156   | - 548 -   |
| Mov Cap-2 Maneuver   | -      | -      | -      | - 548 -   |
| Stage 1              | -      | -      | -      | - 1018 -  |
| Stage 2              | -      | -      | -      | - 608 -   |

| Approach             | EB | WB  | NB |
|----------------------|----|-----|----|
| HCM Control Delay, s | 0  | 8.4 | 0  |
| HCM LOS              |    | A   |    |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBT | EBR | WBL   | WBT |
|-----------------------|-------|-------|-----|-----|-------|-----|
| Capacity (veh/h)      | -     | -     | -   | -   | 1156  | -   |
| HCM Lane V/C Ratio    | -     | -     | -   | -   | 0.148 | -   |
| HCM Control Delay (s) | 0     | 0     | -   | -   | 8.7   | -   |
| HCM Lane LOS          | A     | A     | -   | -   | A     | -   |
| HCM 95th %tile Q(veh) | -     | -     | -   | -   | 0.5   | -   |

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

2045 Background  
PM Peak Hour

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   | ↑    | ↑    |      |      | ↑↑   | ↑    |      | ↑    | ↑    |     |     |     |
| Traffic Volume (veh/h)  | 192  | 638  | 0    | 0    | 196  | 82   | 26   | 32   | 596  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 192  | 638  | 0    | 0    | 196  | 82   | 26   | 32   | 596  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 1826 | 1870 | 0    | 0    | 1796 | 1781 | 1455 | 1900 | 1781 |     |     |     |
| Adj Flow Rate, veh/h  | 202  | 672  | 0    | 0    | 206  | 0    | 27   | 34   | 0    |     |     |     |
| Peak Hour Factor  | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |     |     |     |
| Percent Heavy Veh, %  | 5    | 2    | 0    | 0    | 7    | 8    | 30   | 0    | 8    |     |     |     |
| Cap, veh/h  | 952  | 1519 | 0    | 0    | 2374 |      | 36   | 45   |      |     |     |     |
| Arrive On Green   | 0.07 | 1.00 | 0.00 | 0.00 | 0.70 | 0.00 | 0.04 | 0.04 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 1739 | 1870 | 0    | 0    | 3503 | 1510 | 823  | 1036 | 1510 |     |     |     |
| Grp Volume(v), veh/h  | 202  | 672  | 0    | 0    | 206  | 0    | 61   | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 1739 | 1870 | 0    | 0    | 1706 | 1510 | 1859 | 0    | 1510 |     |     |     |
| Q Serve(g_s), s   | 2.8  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | 2.9  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 2.8  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | 2.9  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      | 1.00 | 0.44 |      | 1.00 |     |     |     |
| Lane Grp Cap(c), veh/h  | 952  | 1519 | 0    | 0    | 2374 |      | 81   | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.21 | 0.44 | 0.00 | 0.00 | 0.09 |      | 0.75 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 1040 | 1519 | 0    | 0    | 2374 |      | 279  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 1.33 | 1.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 0.94 | 0.94 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 2.7  | 0.0  | 0.0  | 0.0  | 4.4  | 0.0  | 42.6 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.1  | 0.9  | 0.0  | 0.0  | 0.1  | 0.0  | 13.0 | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 0.6  | 0.4  | 0.0  | 0.0  | 0.5  | 0.0  | 1.6  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 2.8  | 0.9  | 0.0  | 0.0  | 4.5  | 0.0  | 55.5 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | A    | A    | A    | A    |      | E    | A    |      |     |     |     |
| Approach Vol, veh/h   |      | 874  |      |      | 206  |      |      | 61   |      |     |     |     |
| Approach Delay, s/veh   |      | 1.3  |      |      | 4.5  |      |      | 55.5 |      |     |     |     |
| Approach LOS  |      | A    |      |      | A    |      |      | E    |      |     |     |     |
| Timer - Assigned Phs  |      | 2    |      |      | 5    | 6    |      | 8    |      |     |     |     |
| Phs Duration (G+Y+Rc), s  |      | 79.6 |      |      | 10.5 | 69.1 |      | 10.4 |      |     |     |     |
| Change Period (Y+Rc), s   |      | 6.5  |      |      | 5.5  | 6.5  |      | 6.5  |      |     |     |     |
| Max Green Setting (Gmax), s   |      | 63.5 |      |      | 9.5  | 48.5 |      | 13.5 |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  |      | 2.0  |      |      | 4.8  | 3.8  |      | 4.9  |      |     |     |     |
| Green Ext Time (p_c), s   |      | 5.3  |      |      | 0.2  | 1.4  |      | 0.1  |      |     |     |     |
| <b>Intersection Summary</b>   |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      |      | 4.8  |      |      |      |      |      |      |     |     |     |
| HCM 6th LOS   |      |      | A    |      |      |      |      |      |      |     |     |     |
| <b>Notes</b>  |      |      |      |      |      |      |      |      |      |     |     |     |
| User approved pedestrian interval to be less than phase max green.  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

2045 Background  
PM Peak Hour



| Movement                         | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|----------------------------------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations              |      | ↑↑   | ↑    | ↑    | ↑    |      |     |     |     | ↑    | ↑    | ↑    |
| Traffic Volume (veh/h)           | 0    | 528  | 139  | 164  | 58   | 0    | 0   | 0   | 0   | 302  | 5    | 155  |
| Future Volume (veh/h)            | 0    | 528  | 139  | 164  | 58   | 0    | 0   | 0   | 0   | 302  | 5    | 155  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)              | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln           | 0    | 1856 | 1767 | 1826 | 1500 | 0    |     |     |     | 1885 | 1870 | 1796 |
| Adj Flow Rate, veh/h             | 0    | 556  | 0    | 173  | 61   | 0    |     |     |     | 318  | 5    | 0    |
| Peak Hour Factor                 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |     |     |     | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, %             | 0    | 3    | 9    | 5    | 27   | 0    |     |     |     | 1    | 2    | 7    |
| Cap, veh/h                       | 0    | 1813 |      | 546  | 961  | 0    |     |     |     | 377  | 6    |      |
| Arrive On Green                  | 0.00 | 0.51 | 0.00 | 0.07 | 0.64 | 0.00 |     |     |     | 0.21 | 0.21 | 0.00 |
| Sat Flow, veh/h                  | 0    | 3618 | 1497 | 1739 | 1500 | 0    |     |     |     | 1755 | 28   | 1522 |
| Grp Volume(v), veh/h             | 0    | 556  | 0    | 173  | 61   | 0    |     |     |     | 323  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln        | 0    | 1763 | 1497 | 1739 | 1500 | 0    |     |     |     | 1783 | 0    | 1522 |
| Q Serve(g_s), s                  | 0.0  | 8.2  | 0.0  | 4.0  | 1.4  | 0.0  |     |     |     | 15.6 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  | 8.2  | 0.0  | 4.0  | 1.4  | 0.0  |     |     |     | 15.6 | 0.0  | 0.0  |
| Prop In Lane                     | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.98 |      | 1.00 |
| Lane Grp Cap(c), veh/h           | 0    | 1813 |      | 546  | 961  | 0    |     |     |     | 383  | 0    |      |
| V/C Ratio(X)                     | 0.00 | 0.31 |      | 0.32 | 0.06 | 0.00 |     |     |     | 0.84 | 0.00 |      |
| Avail Cap(c_a), veh/h            | 0    | 1813 |      | 558  | 961  | 0    |     |     |     | 763  | 0    |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  | 12.6 | 0.0  | 8.6  | 6.1  | 0.0  |     |     |     | 33.9 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  | 0.4  | 0.0  | 0.3  | 0.1  | 0.0  |     |     |     | 5.1  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0     | 3.1  | 0.0  | 1.4  | 0.4  | 0.0  |      |     |     |     | 6.9  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh            | 0.0  | 13.1 | 0.0  | 9.0  | 6.2  | 0.0  |     |     |     | 39.0 | 0.0  | 0.0  |
| LnGrp LOS                        | A    | B    |      | A    | A    |      |     |     |     | D    | A    |      |
| Approach Vol, veh/h              |      | 556  |      |      | 234  |      |     |     |     | 323  |      |      |
| Approach Delay, s/veh            |      | 13.1 |      |      | 8.2  |      |     |     |     | 39.0 |      |      |
| Approach LOS                     |      | B    |      |      | A    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs             | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.4     |      | 52.8 |      | 25.8 |      | 64.2 |     |     |     |      |      |      |
| Change Period (Y+Rc), s          | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s      | 5.5  | 26.5 |      | 38.5 |      | 38.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s      | 10.2 |      | 17.6 |      | 3.4  |      |     |     |     |      |      |      |
| Green Ext Time (p_c), s          | 0.0  | 3.3  |      | 1.7  |      | 0.3  |     |     |     |      |      |      |
| Intersection Summary             |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay               |      | 19.6 |      |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS                      |      | B    |      |      |      |      |     |     |     |      |      |      |
| Notes                            |      |      |      |      |      |      |     |     |     |      |      |      |

Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

**Intersection**

Intersection Delay, s/veh 5.9

Intersection LOS A

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 25    | 122   | 453   | 82    |
| Demand Flow Rate, veh/h     | 26    | 133   | 453   | 88    |
| Vehicles Circulating, veh/h | 178   | 13    | 163   | 104   |
| Vehicles Exiting, veh/h     | 14    | 603   | 41    | 42    |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 3.4   | 3.7   | 7.0   | 3.7   |
| Approach LOS                | A     | A     | A     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 26    | 133   | 453   | 88    |
| Cap Entry Lane, veh/h | 1151  | 1362  | 1169  | 1241  |
| Entry HV Adj Factor   | 0.962 | 0.915 | 1.000 | 0.932 |
| Flow Entry, veh/h     | 25    | 122   | 453   | 82    |
| Cap Entry, veh/h      | 1107  | 1246  | 1169  | 1156  |
| V/C Ratio             | 0.023 | 0.098 | 0.388 | 0.071 |
| Control Delay, s/veh  | 3.4   | 3.7   | 7.0   | 3.7   |
| LOS                   | A     | A     | A     | A     |
| 95th %tile Queue, veh | 0     | 0     | 2     | 0     |

| Intersection             |       |        |      |      |        |      |       |        |      |       |       |       |
|--------------------------|-------|--------|------|------|--------|------|-------|--------|------|-------|-------|-------|
| Int Delay, s/veh         | 0.4   |        |      |      |        |      |       |        |      |       |       |       |
| Movement                 | EBL   | EBT    | EBR  | WBL  | WBT    | WBR  | NBL   | NBT    | NBR  | SBL   | SBT   | SBR   |
| Lane Configurations      | ↔     |        |      | ↑    | ↑      |      | ↔     | ↔      |      | ↔     | ↔     |       |
| Traffic Vol, veh/h       | 0     | 306    | 0    | 1    | 34     | 0    | 0     | 0      | 15   | 0     | 0     | 0     |
| Future Vol, veh/h        | 0     | 306    | 0    | 1    | 34     | 0    | 0     | 0      | 15   | 0     | 0     | 0     |
| Conflicting Peds, #/hr   | 0     | 0      | 0    | 0    | 0      | 0    | 0     | 0      | 0    | 0     | 0     | 0     |
| Sign Control             | Free  | Free   | Free | Free | Free   | Free | Stop  | Stop   | Stop | Stop  | Stop  | Stop  |
| RT Channelized           | -     | -      | None | -    | -      | None | -     | -      | None | -     | -     | None  |
| Storage Length           | -     | -      | -    | 300  | -      | -    | -     | -      | -    | -     | -     | -     |
| Veh in Median Storage, # | -     | 0      | -    | -    | 0      | -    | -     | 0      | -    | -     | 0     | -     |
| Grade, %                 | -     | 0      | -    | -    | 0      | -    | -     | 0      | -    | -     | 0     | -     |
| Peak Hour Factor         | 95    | 95     | 95   | 95   | 95     | 95   | 95    | 95     | 95   | 95    | 95    | 95    |
| Heavy Vehicles, %        | 2     | 0      | 2    | 0    | 12     | 2    | 2     | 2      | 0    | 2     | 2     | 2     |
| Mvmt Flow                | 0     | 322    | 0    | 1    | 36     | 0    | 0     | 0      | 16   | 0     | 0     | 0     |
| Major/Minor              |       |        |      |      |        |      |       |        |      |       |       |       |
| Major1                   |       | Major2 |      |      | Minor1 |      |       | Minor2 |      |       |       |       |
| Conflicting Flow All     | 36    | 0      | 0    | 322  | 0      | 0    | 360   | 360    | 322  | 368   | 360   | 36    |
| Stage 1                  | -     | -      | -    | -    | -      | -    | 322   | 322    | -    | 38    | 38    | -     |
| Stage 2                  | -     | -      | -    | -    | -      | -    | 38    | 38     | -    | 330   | 322   | -     |
| Critical Hdwy            | 4.12  | -      | -    | 4.1  | -      | -    | 7.12  | 6.52   | 6.2  | 7.12  | 6.52  | 6.22  |
| Critical Hdwy Stg 1      | -     | -      | -    | -    | -      | -    | 6.12  | 5.52   | -    | 6.12  | 5.52  | -     |
| Critical Hdwy Stg 2      | -     | -      | -    | -    | -      | -    | 6.12  | 5.52   | -    | 6.12  | 5.52  | -     |
| Follow-up Hdwy           | 2.218 | -      | -    | 2.2  | -      | -    | 3.518 | 4.018  | 3.3  | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver       | 1575  | -      | -    | 1249 | -      | -    | 596   | 567    | 724  | 588   | 567   | 1037  |
| Stage 1                  | -     | -      | -    | -    | -      | -    | 690   | 651    | -    | 977   | 863   | -     |
| Stage 2                  | -     | -      | -    | -    | -      | -    | 977   | 863    | -    | 683   | 651   | -     |
| Platoon blocked, %       | -     | -      | -    | -    | -      | -    | -     | -      | -    | -     | -     | -     |
| Mov Cap-1 Maneuver       | 1575  | -      | -    | 1249 | -      | -    | 595   | 566    | 724  | 575   | 566   | 1037  |
| Mov Cap-2 Maneuver       | -     | -      | -    | -    | -      | -    | 595   | 566    | -    | 575   | 566   | -     |
| Stage 1                  | -     | -      | -    | -    | -      | -    | 690   | 651    | -    | 977   | 862   | -     |
| Stage 2                  | -     | -      | -    | -    | -      | -    | 976   | 862    | -    | 668   | 651   | -     |
| Approach                 |       |        |      |      |        |      |       |        |      |       |       |       |
| EB                       |       |        | WB   |      |        | NB   |       |        | SB   |       |       |       |
| HCM Control Delay, s     | 0     |        |      | 0.2  |        |      | 10.1  |        |      | 0     |       |       |
| HCM LOS                  |       |        |      |      |        |      | B     |        |      | A     |       |       |
| Minor Lane/Major Mvmt    |       |        |      |      |        |      |       |        |      |       |       |       |
| NBLn1                    |       | EBL    | EBT  | EBR  | WBL    | WBT  | WBR   | SBLn1  |      |       |       |       |
| Capacity (veh/h)         | 724   | 1575   | -    | -    | 1249   | -    | -     | -      |      |       |       |       |
| HCM Lane V/C Ratio       | 0.022 | -      | -    | -    | 0.001  | -    | -     | -      |      |       |       |       |
| HCM Control Delay (s)    | 10.1  | 0      | -    | -    | 7.9    | -    | -     | 0      |      |       |       |       |
| HCM Lane LOS             | B     | A      | -    | -    | A      | -    | -     | A      |      |       |       |       |
| HCM 95th %tile Q(veh)    | 0.1   | 0      | -    | -    | 0      | -    | -     | -      |      |       |       |       |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 5.7    |        |        |      |       |      |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR  |
| Lane Configurations      | ↑      |        | ↑      | ↑    | ↑     | ↑    |
| Traffic Vol, veh/h       | 5      | 0      | 29     | 5    | 0     | 301  |
| Future Vol, veh/h        | 5      | 0      | 29     | 5    | 0     | 301  |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop |
| RT Channelized           | -      | None   | -      | None | -     | Free |
| Storage Length           | -      | -      | 350    | -    | 0     | 0    |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -    |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -    |
| Peak Hour Factor         | 95     | 95     | 95     | 95   | 95    | 95   |
| Heavy Vehicles, %        | 0      | 2      | 33     | 6    | 2     | 17   |
| Mvmt Flow                | 5      | 0      | 31     | 5    | 0     | 317  |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |      |
| Conflicting Flow All     | 0      | 0      | 5      | 0    | 72    | -    |
| Stage 1                  | -      | -      | -      | -    | 5     | -    |
| Stage 2                  | -      | -      | -      | -    | 67    | -    |
| Critical Hdwy            | -      | -      | 4.43   | -    | 6.42  | -    |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -    |
| Follow-up Hdwy           | -      | -      | 2.497  | -    | 3.518 | -    |
| Pot Cap-1 Maneuver       | -      | -      | 1435   | -    | 932   | 0    |
| Stage 1                  | -      | -      | -      | -    | 1018  | 0    |
| Stage 2                  | -      | -      | -      | -    | 956   | 0    |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -    |
| Mov Cap-1 Maneuver       | -      | -      | 1435   | -    | 911   | -    |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 911   | -    |
| Stage 1                  | -      | -      | -      | -    | 1018  | -    |
| Stage 2                  | -      | -      | -      | -    | 935   | -    |
| Approach                 | EB     | WB     | NB     |      |       |      |
| HCM Control Delay, s     | 0      | 6.5    | 0      |      |       |      |
| HCM LOS                  |        |        | A      |      |       |      |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT  |
| Capacity (veh/h)         | -      | -      | -      | -    | 1435  | -    |
| HCM Lane V/C Ratio       | -      | -      | -      | -    | 0.021 | -    |
| HCM Control Delay (s)    | 0      | 0      | -      | -    | 7.6   | -    |
| HCM Lane LOS             | A      | A      | -      | -    | A     | -    |
| HCM 95th %tile Q(veh)    | -      | -      | -      | -    | 0.1   | -    |

## Appendix E: Total Traffic Synchro Analysis Report

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

Phase 1-2 Traffic  
AM Peak Hour

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   |      |      |      |      |      |      |      |      |      |     |     |     |
| Traffic Volume (veh/h)  | 39   | 255  | 0    | 0    | 350  | 402  | 39   | 1    | 320  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 113  | 266  | 0    | 0    | 396  | 402  | 129  | 1    | 320  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      |      | 1.00 | 1.00 |      |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 996  | 1752 | 0    | 0    | 1826 | 1885 | 1767 | 1900 | 1826 |     |     |     |
| Adj Flow Rate, veh/h  | 133  | 313  | 0    | 0    | 466  | 0    | 152  | 1    | 0    |     |     |     |
| Peak Hour Factor  | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |     |     |     |
| Percent Heavy Veh, %  | 61   | 10   | 0    | 0    | 5    | 1    | 9    | 0    | 5    |     |     |     |
| Cap, veh/h  | 416  | 1276 | 0    | 0    | 2042 |      | 196  | 1    |      |     |     |     |
| Arrive On Green   | 0.02 | 0.24 | 0.00 | 0.00 | 0.59 | 0.00 | 0.11 | 0.11 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 949  | 1752 | 0    | 0    | 3561 | 1598 | 1798 | 12   | 1547 |     |     |     |
| Grp Volume(v), veh/h  | 133  | 313  | 0    | 0    | 466  | 0    | 153  | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 949  | 1752 | 0    | 0    | 1735 | 1598 | 1810 | 0    | 1547 |     |     |     |
| Q Serve(g_s), s   | 3.9  | 11.5 | 0.0  | 0.0  | 5.1  | 0.0  | 6.6  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 3.9  | 11.5 | 0.0  | 0.0  | 5.1  | 0.0  | 6.6  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      |      | 1.00 | 0.99 |      |     |     |     |
| Lane Grp Cap(c), veh/h  | 416  | 1276 | 0    | 0    | 2042 |      | 197  | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.32 | 0.25 | 0.00 | 0.00 | 0.23 |      | 0.77 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 462  | 1276 | 0    | 0    | 2042 |      | 419  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 0.33 | 0.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 0.99 | 0.99 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 5.3  | 12.6 | 0.0  | 0.0  | 7.8  | 0.0  | 34.7 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.4  | 0.5  | 0.0  | 0.0  | 0.3  | 0.0  | 6.4  | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 0.7  | 5.3  | 0.0  | 0.0  | 1.7  | 0.0  | 3.1  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 5.7  | 13.1 | 0.0  | 0.0  | 8.1  | 0.0  | 41.1 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | B    | A    | A    | A    |      | D    | A    |      |     |     |     |
| Approach Vol, veh/h   | 446  |      |      |      | 466  |      |      | 153  |      |     |     |     |
| Approach Delay, s/veh   | 10.9 |      |      |      | 8.1  |      |      | 41.1 |      |     |     |     |
| Approach LOS  |      | B    |      |      | A    |      |      | D    |      |     |     |     |
| Timer - Assigned Phs  | 2    |      |      |      | 5    | 6    |      | 8    |      |     |     |     |
| Phs Duration (G+Y+Rc), s  | 64.8 |      |      |      | 11.2 | 53.6 |      | 15.2 |      |     |     |     |
| Change Period (Y+Rc), s   | 6.5  |      |      |      | 5.5  | 6.5  |      | 6.5  |      |     |     |     |
| Max Green Setting (Gmax), s   | 48.5 |      |      |      | 9.5  | 33.5 |      | 18.5 |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  | 13.5 |      |      |      | 5.9  | 7.1  |      | 8.6  |      |     |     |     |
| Green Ext Time (p_c), s   | 1.9  |      |      |      | 0.1  | 3.1  |      | 0.4  |      |     |     |     |
| Intersection Summary  |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      |      |      | 14.0 |      |      |      |      |      |     |     |     |
| HCM 6th LOS   |      |      |      | B    |      |      |      |      |      |     |     |     |
| Notes   |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

Phase 1-2 Traffic  
AM Peak Hour



| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|---|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations   |      |      |      |      |      |      |     |     |     |      |      |      |
| Traffic Volume (veh/h)  | 0    | 121  | 27   | 145  | 244  | 0    | 0   | 0   | 0   | 173  | 2    | 145  |
| Future Volume (veh/h)   | 0    | 206  | 48   | 145  | 380  | 0    | 0   | 0   | 0   | 173  | 2    | 461  |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach   | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln  | 0    | 1411 | 1500 | 1781 | 1826 | 0    |     |     |     | 1796 | 1159 | 1663 |
| Adj Flow Rate, veh/h  | 0    | 242  | 0    | 171  | 447  | 0    |     |     |     | 204  | 2    | 0    |
| Peak Hour Factor  | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |     |     |     | 0.85 | 0.85 | 0.85 |
| Percent Heavy Veh, %  | 0    | 33   | 27   | 8    | 5    | 0    |     |     |     | 7    | 50   | 16   |
| Cap, veh/h  | 0    | 1295 |      | 678  | 1137 | 0    |     |     |     | 235  | 2    |      |
| Arrive On Green   | 0.00 | 0.48 | 0.00 | 0.07 | 0.62 | 0.00 |     |     |     | 0.21 | 0.21 | 0.00 |
| Sat Flow, veh/h   | 0    | 2751 | 1271 | 1697 | 1826 | 0    |     |     |     | 1094 | 11   | 1409 |
| Grp Volume(v), veh/h  | 0    | 242  | 0    | 171  | 447  | 0    |     |     |     | 206  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln   | 0    | 1340 | 1271 | 1697 | 1826 | 0    |     |     |     | 1104 | 0    | 1409 |
| Q Serve(g_s), s   | 0.0  | 4.1  | 0.0  | 3.8  | 9.8  | 0.0  |     |     |     | 14.4 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s   | 0.0  | 4.1  | 0.0  | 3.8  | 9.8  | 0.0  |     |     |     | 14.4 | 0.0  | 0.0  |
| Prop In Lane  | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.99 |      | 1.00 |
| Lane Grp Cap(c), veh/h  | 0    | 1295 |      | 678  | 1137 | 0    |     |     |     | 237  | 0    |      |
| V/C Ratio(X)  | 0.00 | 0.19 |      | 0.25 | 0.39 | 0.00 |     |     |     | 0.87 | 0.00 |      |
| Avail Cap(c_a), veh/h   | 0    | 1295 |      | 696  | 1137 | 0    |     |     |     | 462  | 0    |      |
| HCM Platoon Ratio   | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)  | 0.00 | 1.00 | 0.00 | 0.97 | 0.97 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh  | 0.0  | 11.8 | 0.0  | 8.2  | 7.5  | 0.0  |     |     |     | 30.3 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh  | 0.0  | 0.3  | 0.0  | 0.2  | 1.0  | 0.0  |     |     |     | 9.3  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0  | 1.2  | 0.0  | 1.2  | 3.4  | 0.0  |      |     |     |     | 4.1  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh   | 0.0  | 12.1 | 0.0  | 8.4  | 8.5  | 0.0  |     |     |     | 39.7 | 0.0  | 0.0  |
| LnGrp LOS   | A    | B    |      | A    | A    | A    |     |     |     | D    | A    |      |
| Approach Vol, veh/h   |      | 242  |      |      | 618  |      |     |     |     | 206  |      |      |
| Approach Delay, s/veh   |      | 12.1 |      |      | 8.5  |      |     |     |     | 39.7 |      |      |
| Approach LOS  |      | B    |      |      | A    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs  | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.2  | 45.1 |      |      | 23.7 |      | 56.3 |     |     |     |      |      |      |
| Change Period (Y+Rc), s   | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s   | 5.5  | 21.5 |      | 33.5 |      | 33.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s   | 5.5  | 6.1  |      | 16.4 |      | 11.8 |     |     |     |      |      |      |
| Green Ext Time (p_c), s   | 0.0  | 1.3  |      | 1.0  |      | 2.7  |     |     |     |      |      |      |
| Intersection Summary  |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay  |      |      | 15.3 |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS   |      |      | B    |      |      |      |     |     |     |      |      |      |
| Notes   |      |      |      |      |      |      |     |     |     |      |      |      |
| Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |     |     |     |      |      |      |

**Intersection**

Intersection Delay, s/veh 10.9

Intersection LOS B

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 19    | 914   | 223   | 82    |
| Demand Flow Rate, veh/h     | 26    | 954   | 240   | 89    |
| Vehicles Circulating, veh/h | 933   | 18    | 100   | 869   |
| Vehicles Exiting, veh/h     | 25    | 322   | 859   | 103   |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 10.0  | 12.6  | 4.8   | 8.9   |
| Approach LOS                | A     | B     | A     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 26    | 954   | 240   | 89    |
| Cap Entry Lane, veh/h | 533   | 1355  | 1246  | 569   |
| Entry HV Adj Factor   | 0.731 | 0.958 | 0.929 | 0.920 |
| Flow Entry, veh/h     | 19    | 914   | 223   | 82    |
| Cap Entry, veh/h      | 389   | 1298  | 1157  | 523   |
| V/C Ratio             | 0.049 | 0.704 | 0.193 | 0.156 |
| Control Delay, s/veh  | 10.0  | 12.6  | 4.8   | 8.9   |
| LOS                   | A     | B     | A     | A     |
| 95th %tile Queue, veh | 0     | 6     | 1     | 1     |

| Intersection             |       |        |      |       |        |      |      |        |       |       |       |      |  |  |  |  |  |  |  |
|--------------------------|-------|--------|------|-------|--------|------|------|--------|-------|-------|-------|------|--|--|--|--|--|--|--|
| Int Delay, s/veh         | 0.4   |        |      |       |        |      |      |        |       |       |       |      |  |  |  |  |  |  |  |
| Movement                 | EBL   | EBT    | EBR  | WBL   | WBT    | WBR  | NBL  | NBT    | NBR   | SBL   | SBT   | SBR  |  |  |  |  |  |  |  |
| Lane Configurations      | ↔     | ↑      | ↑    | ↑     | ↑      | ↑    | ↔    | ↔      | ↔     | ↔     | ↔     | ↔    |  |  |  |  |  |  |  |
| Traffic Vol, veh/h       | 0     | 71     | 0    | 25    | 184    | 1    | 1    | 0      | 8     | 0     | 0     | 1    |  |  |  |  |  |  |  |
| Future Vol, veh/h        | 0     | 177    | 0    | 25    | 636    | 1    | 1    | 0      | 8     | 0     | 0     | 1    |  |  |  |  |  |  |  |
| Conflicting Peds, #/hr   | 0     | 0      | 0    | 0     | 0      | 0    | 0    | 0      | 0     | 0     | 0     | 0    |  |  |  |  |  |  |  |
| Sign Control             | Free  | Free   | Free | Free  | Free   | Free | Stop | Stop   | Stop  | Stop  | Stop  | Stop |  |  |  |  |  |  |  |
| RT Channelized           | -     | -      | None | -     | -      | None | -    | -      | None  | -     | -     | None |  |  |  |  |  |  |  |
| Storage Length           | -     | -      | -    | 300   | -      | -    | -    | -      | -     | -     | -     | -    |  |  |  |  |  |  |  |
| Veh in Median Storage, # | -     | 0      | -    | -     | 0      | -    | -    | 0      | -     | -     | 0     | -    |  |  |  |  |  |  |  |
| Grade, %                 | -     | 0      | -    | -     | 0      | -    | -    | 0      | -     | -     | 0     | -    |  |  |  |  |  |  |  |
| Peak Hour Factor         | 85    | 85     | 85   | 85    | 85     | 85   | 85   | 85     | 85    | 85    | 85    | 85   |  |  |  |  |  |  |  |
| Heavy Vehicles, %        | 2     | 5      | 2    | 9     | 3      | 0    | 100  | 2      | 57    | 2     | 2     | 0    |  |  |  |  |  |  |  |
| Mvmt Flow                | 0     | 208    | 0    | 29    | 748    | 1    | 1    | 0      | 9     | 0     | 0     | 1    |  |  |  |  |  |  |  |
| Major/Minor              |       |        |      |       |        |      |      |        |       |       |       |      |  |  |  |  |  |  |  |
| Major1                   |       | Major2 |      |       | Minor1 |      |      | Minor2 |       |       |       |      |  |  |  |  |  |  |  |
| Conflicting Flow All     | 749   | 0      | 0    | 208   | 0      | 0    | 1015 | 1015   | 208   | 1020  | 1015  | 749  |  |  |  |  |  |  |  |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 208  | 208    | -     | 807   | 807   | -    |  |  |  |  |  |  |  |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 807  | 807    | -     | 213   | 208   | -    |  |  |  |  |  |  |  |
| Critical Hdwy            | 4.12  | -      | -    | 4.19  | -      | -    | 8.1  | 6.52   | 6.77  | 7.12  | 6.52  | 6.2  |  |  |  |  |  |  |  |
| Critical Hdwy Stg 1      | -     | -      | -    | -     | -      | -    | 7.1  | 5.52   | -     | 6.12  | 5.52  | -    |  |  |  |  |  |  |  |
| Critical Hdwy Stg 2      | -     | -      | -    | -     | -      | -    | 7.1  | 5.52   | -     | 6.12  | 5.52  | -    |  |  |  |  |  |  |  |
| Follow-up Hdwy           | 2.218 | -      | -    | 2.281 | -      | -    | 4.4  | 4.018  | 3.813 | 3.518 | 4.018 | 3.3  |  |  |  |  |  |  |  |
| Pot Cap-1 Maneuver       | 860   | -      | -    | 1322  | -      | -    | 146  | 238    | 711   | 215   | 238   | 415  |  |  |  |  |  |  |  |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 615  | 730    | -     | 375   | 394   | -    |  |  |  |  |  |  |  |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 262  | 394    | -     | 789   | 730   | -    |  |  |  |  |  |  |  |
| Platoon blocked, %       | -     | -      | -    | -     | -      | -    | -    | -      | -     | -     | -     | -    |  |  |  |  |  |  |  |
| Mov Cap-1 Maneuver       | 860   | -      | -    | 1322  | -      | -    | 143  | 233    | 711   | 209   | 233   | 415  |  |  |  |  |  |  |  |
| Mov Cap-2 Maneuver       | -     | -      | -    | -     | -      | -    | 143  | 233    | -     | 209   | 233   | -    |  |  |  |  |  |  |  |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 615  | 730    | -     | 375   | 385   | -    |  |  |  |  |  |  |  |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 256  | 385    | -     | 779   | 730   | -    |  |  |  |  |  |  |  |
| Approach                 |       |        |      |       |        |      |      |        |       |       |       |      |  |  |  |  |  |  |  |
| EB                       |       |        | WB   |       |        | NB   |      |        | SB    |       |       |      |  |  |  |  |  |  |  |
| HCM Control Delay, s     | 0     |        | 0.3  |       |        | 12.5 |      |        | 13.7  |       |       |      |  |  |  |  |  |  |  |
| HCM LOS                  | B     |        |      |       |        |      | B    |        |       |       |       |      |  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt    |       |        |      |       |        |      |      |        |       |       |       |      |  |  |  |  |  |  |  |
| Capacity (veh/h)         | 493   | 860    | -    | -     | 1322   | -    | -    | -      | 415   |       |       |      |  |  |  |  |  |  |  |
| HCM Lane V/C Ratio       | 0.021 | -      | -    | -     | 0.022  | -    | -    | -      | 0.003 |       |       |      |  |  |  |  |  |  |  |
| HCM Control Delay (s)    | 12.5  | 0      | -    | -     | 7.8    | -    | -    | -      | 13.7  |       |       |      |  |  |  |  |  |  |  |
| HCM Lane LOS             | B     | A      | -    | -     | A      | -    | -    | -      | B     |       |       |      |  |  |  |  |  |  |  |
| HCM 95th %tile Q(veh)    | 0.1   | 0      | -    | -     | 0.1    | -    | -    | -      | 0     |       |       |      |  |  |  |  |  |  |  |

Intersection

Int Delay, s/veh 10.7

| Movement                 | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | ↑    | ↑    | ↑    | ↑    | ↑    | ↑    |
| Traffic Vol, veh/h       | 5    | 0    | 185  | 5    | 0    | 62   |
| Future Vol, veh/h        | 5    | 0    | 464  | 5    | 0    | 128  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop | Stop |
| RT Channelized           | -    | None | -    | None | -    | Free |
| Storage Length           | -    | -    | 350  | -    | 0    | 0    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | 0    | -    | -    | 0    | 0    | -    |
| Peak Hour Factor         | 85   | 85   | 85   | 85   | 85   | 85   |
| Heavy Vehicles, %        | 0    | 2    | 100  | 0    | 2    | 67   |
| Mvmt Flow                | 6    | 0    | 546  | 6    | 0    | 151  |

| Major/Minor          | Major1 | Major2 | Minor1 |           |
|----------------------|--------|--------|--------|-----------|
| Conflicting Flow All | 0      | 0      | 6      | 0 1104 -  |
| Stage 1              | -      | -      | -      | - 6 -     |
| Stage 2              | -      | -      | -      | - 1098 -  |
| Critical Hdwy        | -      | -      | 5.1    | - 6.42 -  |
| Critical Hdwy Stg 1  | -      | -      | -      | - 5.42 -  |
| Critical Hdwy Stg 2  | -      | -      | -      | - 5.42 -  |
| Follow-up Hdwy       | -      | -      | 3.1    | - 3.518 - |
| Pot Cap-1 Maneuver   | -      | -      | 1154   | - 234 0   |
| Stage 1              | -      | -      | -      | - 1017 0  |
| Stage 2              | -      | -      | -      | - 319 0   |
| Platoon blocked, %   | -      | -      | -      | -         |
| Mov Cap-1 Maneuver   | -      | -      | 1154   | - 123 -   |
| Mov Cap-2 Maneuver   | -      | -      | -      | - 123 -   |
| Stage 1              | -      | -      | -      | - 1017 -  |
| Stage 2              | -      | -      | -      | - 168 -   |

| Approach             | EB | WB   | NB |
|----------------------|----|------|----|
| HCM Control Delay, s | 0  | 10.8 | 0  |
| HCM LOS              |    | A    |    |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBT | EBR | WBL   | WBT |
|-----------------------|-------|-------|-----|-----|-------|-----|
| Capacity (veh/h)      | -     | -     | -   | -   | 1154  | -   |
| HCM Lane V/C Ratio    | -     | -     | -   | -   | 0.473 | -   |
| HCM Control Delay (s) | 0     | 0     | -   | -   | 10.9  | -   |
| HCM Lane LOS          | A     | A     | -   | -   | B     | -   |
| HCM 95th %tile Q(veh) | -     | -     | -   | -   | 2.6   | -   |

| Intersection             |        |       |        |      |       |       |
|--------------------------|--------|-------|--------|------|-------|-------|
| Int Delay, s/veh         | 1.9    |       |        |      |       |       |
| Movement                 | EBT    | EBR   | WBL    | WBT  | NBL   | NBR   |
| Lane Configurations      | ↑      | ↖     | ↖      | ↑    | ↖     | ↖     |
| Traffic Vol, veh/h       | 70     | 0     | 0      | 191  | 0     | 0     |
| Future Vol, veh/h        | 124    | 12    | 70     | 436  | 34    | 16    |
| Conflicting Peds, #/hr   | 0      | 0     | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free  | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None  | -      | None | -     | None  |
| Storage Length           | -      | 0     | 250    | -    | 150   | 0     |
| Veh in Median Storage, # | 0      | -     | -      | 0    | 0     | -     |
| Grade, %                 | 0      | -     | -      | 0    | 0     | -     |
| Peak Hour Factor         | 85     | 85    | 85     | 85   | 85    | 85    |
| Heavy Vehicles, %        | 2      | 2     | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 146    | 14    | 82     | 513  | 40    | 19    |
| Major/Minor              |        |       |        |      |       |       |
| Major1                   | Major2 |       | Minor1 |      |       |       |
|                          | 0      | 0     | 160    | 0    | 823   | 146   |
| Conflicting Flow All     | -      | -     | -      | -    | 146   | -     |
| Stage 1                  | -      | -     | -      | -    | 677   | -     |
| Stage 2                  | -      | -     | -      | -    | 5.42  | -     |
| Critical Hdwy            | -      | -     | 4.12   | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -     | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -     | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | -      | -     | 2.218  | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -     | 1419   | -    | 343   | 901   |
| Stage 1                  | -      | -     | -      | -    | 881   | -     |
| Stage 2                  | -      | -     | -      | -    | 505   | -     |
| Platoon blocked, %       | -      | -     | -      | -    | -     | -     |
| Mov Cap-1 Maneuver       | -      | -     | 1419   | -    | 323   | 901   |
| Mov Cap-2 Maneuver       | -      | -     | -      | -    | 323   | -     |
| Stage 1                  | -      | -     | -      | -    | 881   | -     |
| Stage 2                  | -      | -     | -      | -    | 476   | -     |
| Approach                 |        |       |        |      |       |       |
| EB                       | WB     |       | NB     |      |       |       |
|                          | 0      | 1.1   | 14.9   |      |       |       |
| HCM Control Delay, s     |        |       | B      |      |       |       |
| Minor Lane/Major Mvmt    |        |       |        |      |       |       |
| Capacity (veh/h)         | NBLn1  | NBLn2 | EBT    | EBR  | WBL   | WBT   |
|                          | 323    | 901   | -      | -    | 1419  | -     |
| HCM Lane V/C Ratio       | 0.124  | 0.021 | -      | -    | 0.058 | -     |
| HCM Control Delay (s)    | 17.7   | 9.1   | -      | -    | 7.7   | -     |
| HCM Lane LOS             | C      | A     | -      | -    | A     | -     |
| HCM 95th %tile Q(veh)    | 0.4    | 0.1   | -      | -    | 0.2   | -     |

| Intersection             |        |        |        |       |       |       |
|--------------------------|--------|--------|--------|-------|-------|-------|
| Int Delay, s/veh         | 1.7    |        |        |       |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT   | NBL   | NBR   |
| Lane Configurations      | ↑      | ↑      | ↑      | ↑     | Y     | Y     |
| Traffic Vol, veh/h       | 70     | 0      | 0      | 191   | 0     | 0     |
| Future Vol, veh/h        | 140    | 0      | 137    | 506   | 0     | 36    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0     | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free  | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None  | -     | None  |
| Storage Length           | -      | -      | 300    | -     | 0     | -     |
| Veh in Median Storage, # | 0      | -      | -      | 0     | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0     | 0     | -     |
| Peak Hour Factor         | 85     | 85     | 85     | 85    | 85    | 85    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2     | 2     | 2     |
| Mvmt Flow                | 165    | 0      | 161    | 595   | 0     | 42    |
| Major/Minor              | Major1 | Major2 | Minor1 |       |       |       |
| Conflicting Flow All     | 0      | 0      | 165    | 0     | 1082  | 165   |
| Stage 1                  | -      | -      | -      | -     | 165   | -     |
| Stage 2                  | -      | -      | -      | -     | 917   | -     |
| Critical Hdwy            | -      | -      | 4.12   | -     | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -     | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -     | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -     | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 1413   | -     | 241   | 879   |
| Stage 1                  | -      | -      | -      | -     | 864   | -     |
| Stage 2                  | -      | -      | -      | -     | 390   | -     |
| Platoon blocked, %       | -      | -      | -      | -     | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 1413   | -     | 214   | 879   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -     | 214   | -     |
| Stage 1                  | -      | -      | -      | -     | 864   | -     |
| Stage 2                  | -      | -      | -      | -     | 346   | -     |
| Approach                 | EB     | WB     | NB     |       |       |       |
| HCM Control Delay, s     | 0      | 1.7    | 9.3    |       |       |       |
| HCM LOS                  | A      |        |        |       |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | EBT    | EBR    | WBL   | WBT   |       |
| Capacity (veh/h)         | 879    | -      | -      | 1413  | -     |       |
| HCM Lane V/C Ratio       | 0.048  | -      | -      | 0.114 | -     |       |
| HCM Control Delay (s)    | 9.3    | -      | -      | 7.9   | -     |       |
| HCM Lane LOS             | A      | -      | -      | A     | -     |       |
| HCM 95th %tile Q(veh)    | 0.2    | -      | -      | 0.4   | -     |       |

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

Phase 1-2 Traffic  
PM Peak Hour

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   |      |      |      |      |      |      |      |      |      |     |     |     |
| Traffic Volume (veh/h)  | 187  | 621  | 0    | 0    | 177  | 73   | 24   | 29   | 531  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 515  | 667  | 0    | 0    | 194  | 73   | 59   | 29   | 531  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      |      | 1.00 | 1.00 |      |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 1826 | 1870 | 0    | 0    | 1796 | 1781 | 1455 | 1900 | 1781 |     |     |     |
| Adj Flow Rate, veh/h  | 606  | 785  | 0    | 0    | 228  | 0    | 69   | 34   | 0    |     |     |     |
| Peak Hour Factor  | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |     |     |     |
| Percent Heavy Veh, %  | 5    | 2    | 0    | 0    | 7    | 8    | 30   | 0    | 8    |     |     |     |
| Cap, veh/h  | 925  | 1463 | 0    | 0    | 2101 |      | 90   | 44   |      |     |     |     |
| Arrive On Green   | 0.14 | 1.00 | 0.00 | 0.00 | 0.62 | 0.00 | 0.07 | 0.07 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 1739 | 1870 | 0    | 0    | 3503 | 1510 | 1232 | 607  | 1510 |     |     |     |
| Grp Volume(v), veh/h  | 606  | 785  | 0    | 0    | 228  | 0    | 103  | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 1739 | 1870 | 0    | 0    | 1706 | 1510 | 1838 | 0    | 1510 |     |     |     |
| Q Serve(g_s), s   | 9.5  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 5.0  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 9.5  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 5.0  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      |      | 1.00 | 0.67 |      |     |     |     |
| Lane Grp Cap(c), veh/h  | 925  | 1463 | 0    | 0    | 2101 |      | 135  | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.65 | 0.54 | 0.00 | 0.00 | 0.11 |      | 0.76 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 925  | 1463 | 0    | 0    | 2101 |      | 276  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 1.33 | 1.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 0.63 | 0.63 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 5.8  | 0.0  | 0.0  | 0.0  | 7.1  | 0.0  | 40.9 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 1.1  | 0.9  | 0.0  | 0.0  | 0.1  | 0.0  | 8.7  | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 3.1  | 0.4  | 0.0  | 0.0  | 0.8  | 0.0  | 2.5  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 6.8  | 0.9  | 0.0  | 0.0  | 7.2  | 0.0  | 49.6 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | A    | A    | A    | A    |      | D    | A    |      |     |     |     |
| Approach Vol, veh/h   | 1391 |      |      | 228  |      |      | 103  |      |      |     |     |     |
| Approach Delay, s/veh   | 3.5  |      |      | 7.2  |      |      | 49.6 |      |      |     |     |     |
| Approach LOS  | A    |      |      | A    |      |      | D    |      |      |     |     |     |
| Timer - Assigned Phs  | 2    |      |      | 5    | 6    |      | 8    |      |      |     |     |     |
| Phs Duration (G+Y+Rc), s  | 76.9 |      |      | 15.0 | 61.9 |      | 13.1 |      |      |     |     |     |
| Change Period (Y+Rc), s   | 6.5  |      |      | 5.5  | 6.5  |      | 6.5  |      |      |     |     |     |
| Max Green Setting (Gmax), s   | 63.5 |      |      | 9.5  | 48.5 |      | 13.5 |      |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  | 2.0  |      |      | 11.5 | 4.5  |      | 7.0  |      |      |     |     |     |
| Green Ext Time (p_c), s   | 6.8  |      |      | 0.0  | 1.5  |      | 0.2  |      |      |     |     |     |
| Intersection Summary  |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      |      | 6.7  |      |      |      |      |      |      |     |     |     |
| HCM 6th LOS   |      |      | A    |      |      |      |      |      |      |     |     |     |
| Notes   |      |      |      |      |      |      |      |      |      |     |     |     |
| User approved pedestrian interval to be less than phase max green.  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

Phase 1-2 Traffic  
PM Peak Hour



| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|---|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations   |      |      |      |      |      |      |     |     |     |      |      |      |
| Traffic Volume (veh/h)  | 0    | 539  | 142  | 146  | 55   | 0    | 0   | 0   | 0   | 269  | 5    | 146  |
| Future Volume (veh/h)   | 0    | 913  | 236  | 146  | 107  | 0    | 0   | 0   | 0   | 269  | 5    | 269  |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach   | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln  | 0    | 1856 | 1767 | 1826 | 1500 | 0    |     |     |     | 1885 | 1870 | 1796 |
| Adj Flow Rate, veh/h  | 0    | 1074 |      | 0    | 172  | 126  | 0   |     |     | 316  | 6    | 0    |
| Peak Hour Factor  | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |     |     |     | 0.85 | 0.85 | 0.85 |
| Percent Heavy Veh, %  | 0    | 3    | 9    | 5    | 27   | 0    |     |     |     | 1    | 2    | 7    |
| Cap, veh/h  | 0    | 1816 |      | 349  | 962  | 0    |     |     |     | 375  | 7    |      |
| Arrive On Green   | 0.00 | 0.52 | 0.00 | 0.07 | 0.64 | 0.00 |     |     |     | 0.21 | 0.21 | 0.00 |
| Sat Flow, veh/h   | 0    | 3618 | 1497 | 1739 | 1500 | 0    |     |     |     | 1750 | 33   | 1522 |
| Grp Volume(v), veh/h  | 0    | 1074 | 0    | 172  | 126  | 0    |     |     |     | 322  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln   | 0    | 1763 | 1497 | 1739 | 1500 | 0    |     |     |     | 1783 | 0    | 1522 |
| Q Serve(g_s), s   | 0.0  | 19.1 | 0.0  | 3.9  | 3.0  | 0.0  |     |     |     | 15.6 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s   | 0.0  | 19.1 | 0.0  | 3.9  | 3.0  | 0.0  |     |     |     | 15.6 | 0.0  | 0.0  |
| Prop In Lane  | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.98 |      | 1.00 |
| Lane Grp Cap(c), veh/h  | 0    | 1816 |      | 349  | 962  | 0    |     |     |     | 382  | 0    |      |
| V/C Ratio(X)  | 0.00 | 0.59 |      | 0.49 | 0.13 | 0.00 |     |     |     | 0.84 | 0.00 |      |
| Avail Cap(c_a), veh/h   | 0    | 1816 |      | 361  | 962  | 0    |     |     |     | 763  | 0    |      |
| HCM Platoon Ratio   | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)  | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh  | 0.0  | 15.2 | 0.0  | 11.6 | 6.3  | 0.0  |     |     |     | 33.9 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh  | 0.0  | 1.4  | 0.0  | 1.1  | 0.3  | 0.0  |     |     |     | 5.1  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0  | 7.3  | 0.0  | 1.4  | 0.9  | 0.0  |      |     |     |     | 6.9  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh   | 0.0  | 16.6 | 0.0  | 12.7 | 6.6  | 0.0  |     |     |     | 39.0 | 0.0  | 0.0  |
| LnGrp LOS   | A    | B    |      | B    | A    | A    |     |     |     | D    | A    |      |
| Approach Vol, veh/h   |      | 1074 |      |      | 298  |      |     |     |     | 322  |      |      |
| Approach Delay, s/veh   |      | 16.6 |      |      | 10.1 |      |     |     |     | 39.0 |      |      |
| Approach LOS  |      | B    |      |      | B    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs  | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.4  |      | 52.9 |      | 25.8 |      | 64.2 |     |     |     |      |      |      |
| Change Period (Y+Rc), s   | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s   | 5.5  | 26.5 |      | 38.5 |      | 38.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s   | 15.9 | 21.1 |      | 17.6 |      | 5.0  |     |     |     |      |      |      |
| Green Ext Time (p_c), s   | 0.0  | 3.2  |      | 1.7  |      | 0.7  |     |     |     |      |      |      |
| Intersection Summary  |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay  |      |      | 19.8 |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS   |      |      | B    |      |      |      |     |     |     |      |      |      |
| Notes   |      |      |      |      |      |      |     |     |     |      |      |      |
| Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |     |     |     |      |      |      |

**Intersection**

Intersection Delay, s/veh 25.3

Intersection LOS D

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 26    | 338   | 1104  | 83    |
| Demand Flow Rate, veh/h     | 27    | 371   | 1104  | 89    |
| Vehicles Circulating, veh/h | 417   | 14    | 162   | 343   |
| Vehicles Exiting, veh/h     | 15    | 1252  | 282   | 42    |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 4.4   | 5.4   | 33.5  | 4.8   |
| Approach LOS                | A     | A     | D     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 27    | 371   | 1104  | 89    |
| Cap Entry Lane, veh/h | 902   | 1360  | 1170  | 973   |
| Entry HV Adj Factor   | 0.963 | 0.911 | 1.000 | 0.933 |
| Flow Entry, veh/h     | 26    | 338   | 1104  | 83    |
| Cap Entry, veh/h      | 868   | 1240  | 1170  | 907   |
| V/C Ratio             | 0.030 | 0.273 | 0.944 | 0.092 |
| Control Delay, s/veh  | 4.4   | 5.4   | 33.5  | 4.8   |
| LOS                   | A     | A     | D     | A     |
| 95th %tile Queue, veh | 0     | 1     | 17    | 0     |

| Intersection             |       |        |      |        |       |        |       |       |      |       |       |       |
|--------------------------|-------|--------|------|--------|-------|--------|-------|-------|------|-------|-------|-------|
| Int Delay, s/veh         | 0.2   |        |      |        |       |        |       |       |      |       |       |       |
| Movement                 | EBL   | EBT    | EBR  | WBL    | WBT   | WBR    | NBL   | NBT   | NBR  | SBL   | SBT   | SBR   |
| Lane Configurations      | +     | +      | +    | +      | +     | +      | +     | +     | +    | +     | +     |       |
| Traffic Vol, veh/h       | 0     | 360    | 0    | 1      | 42    | 0      | 0     | 0     | 14   | 0     | 0     | 0     |
| Future Vol, veh/h        | 0     | 828    | 0    | 1      | 217   | 0      | 0     | 0     | 14   | 0     | 0     | 0     |
| Conflicting Peds, #/hr   | 0     | 0      | 0    | 0      | 0     | 0      | 0     | 0     | 0    | 0     | 0     | 0     |
| Sign Control             | Free  | Free   | Free | Free   | Free  | Free   | Stop  | Stop  | Stop | Stop  | Stop  | Stop  |
| RT Channelized           | -     | -      | None | -      | -     | None   | -     | -     | None | -     | -     | None  |
| Storage Length           | -     | -      | -    | 300    | -     | -      | -     | -     | -    | -     | -     | -     |
| Veh in Median Storage, # | -     | 0      | -    | -      | 0     | -      | -     | 0     | -    | -     | 0     | -     |
| Grade, %                 | -     | 0      | -    | -      | 0     | -      | -     | 0     | -    | -     | 0     | -     |
| Peak Hour Factor         | 85    | 85     | 85   | 85     | 85    | 85     | 85    | 85    | 85   | 85    | 85    | 85    |
| Heavy Vehicles, %        | 2     | 0      | 2    | 0      | 12    | 2      | 2     | 2     | 0    | 2     | 2     | 2     |
| Mvmt Flow                | 0     | 974    | 0    | 1      | 255   | 0      | 0     | 0     | 16   | 0     | 0     | 0     |
| Major/Minor              |       |        |      |        |       |        |       |       |      |       |       |       |
| Major1                   |       | Major2 |      | Minor1 |       | Minor2 |       |       |      |       |       |       |
| Conflicting Flow All     | 255   | 0      | 0    | 974    | 0     | 0      | 1231  | 1231  | 974  | 1239  | 1231  | 255   |
| Stage 1                  | -     | -      | -    | -      | -     | -      | 974   | 974   | -    | 257   | 257   | -     |
| Stage 2                  | -     | -      | -    | -      | -     | -      | 257   | 257   | -    | 982   | 974   | -     |
| Critical Hdwy            | 4.12  | -      | -    | 4.1    | -     | -      | 7.12  | 6.52  | 6.2  | 7.12  | 6.52  | 6.22  |
| Critical Hdwy Stg 1      | -     | -      | -    | -      | -     | -      | 6.12  | 5.52  | -    | 6.12  | 5.52  | -     |
| Critical Hdwy Stg 2      | -     | -      | -    | -      | -     | -      | 6.12  | 5.52  | -    | 6.12  | 5.52  | -     |
| Follow-up Hdwy           | 2.218 | -      | -    | 2.2    | -     | -      | 3.518 | 4.018 | 3.3  | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver       | 1310  | -      | -    | 716    | -     | -      | 154   | 177   | 308  | 152   | 177   | 784   |
| Stage 1                  | -     | -      | -    | -      | -     | -      | 303   | 330   | -    | 748   | 695   | -     |
| Stage 2                  | -     | -      | -    | -      | -     | -      | 748   | 695   | -    | 300   | 330   | -     |
| Platoon blocked, %       | -     | -      | -    | -      | -     | -      | -     | -     | -    | -     | -     | -     |
| Mov Cap-1 Maneuver       | 1310  | -      | -    | 716    | -     | -      | 154   | 177   | 308  | 144   | 177   | 784   |
| Mov Cap-2 Maneuver       | -     | -      | -    | -      | -     | -      | 154   | 177   | -    | 144   | 177   | -     |
| Stage 1                  | -     | -      | -    | -      | -     | -      | 303   | 330   | -    | 748   | 694   | -     |
| Stage 2                  | -     | -      | -    | -      | -     | -      | 747   | 694   | -    | 284   | 330   | -     |
| Approach                 |       |        |      |        |       |        |       |       |      |       |       |       |
| EB                       |       |        | WB   |        |       | NB     |       |       | SB   |       |       |       |
| HCM Control Delay, s     | 0     |        |      | 0      |       |        | 17.3  |       |      | 0     |       |       |
| HCM LOS                  |       |        |      |        |       |        | C     |       |      | A     |       |       |
| Minor Lane/Major Mvmt    |       |        |      |        |       |        |       |       |      |       |       |       |
| NBLn1                    | NBLn1 | EBL    | EBT  | EBR    | WBL   | WBT    | WBR   | SBLn1 |      |       |       |       |
| Capacity (veh/h)         | 308   | 1310   | -    | -      | 716   | -      | -     | -     |      |       |       |       |
| HCM Lane V/C Ratio       | 0.053 | -      | -    | -      | 0.002 | -      | -     | -     |      |       |       |       |
| HCM Control Delay (s)    | 17.3  | 0      | -    | -      | 10    | -      | -     | 0     |      |       |       |       |
| HCM Lane LOS             | C     | A      | -    | -      | B     | -      | -     | A     |      |       |       |       |
| HCM 95th %tile Q(veh)    | 0.2   | 0      | -    | -      | 0     | -      | -     | -     |      |       |       |       |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 7.1    |        |        |      |       |      |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR  |
| Lane Configurations      | ↑      |        | ↑      | ↑    | ↑     | ↑    |
| Traffic Vol, veh/h       | 5      | 0      | 32     | 5    | 0     | 344  |
| Future Vol, veh/h        | 5      | 0      | 109    | 5    | 0     | 614  |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop |
| RT Channelized           | -      | None   | -      | None | -     | Free |
| Storage Length           | -      | -      | 350    | -    | 0     | 0    |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -    |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -    |
| Peak Hour Factor         | 85     | 85     | 85     | 85   | 85    | 85   |
| Heavy Vehicles, %        | 0      | 2      | 33     | 6    | 2     | 17   |
| Mvmt Flow                | 6      | 0      | 128    | 6    | 0     | 722  |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |      |
| Conflicting Flow All     | 0      | 0      | 6      | 0    | 268   | -    |
| Stage 1                  | -      | -      | -      | -    | 6     | -    |
| Stage 2                  | -      | -      | -      | -    | 262   | -    |
| Critical Hdwy            | -      | -      | 4.43   | -    | 6.42  | -    |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -    |
| Follow-up Hdwy           | -      | -      | 2.497  | -    | 3.518 | -    |
| Pot Cap-1 Maneuver       | -      | -      | 1434   | -    | 721   | 0    |
| Stage 1                  | -      | -      | -      | -    | 1017  | 0    |
| Stage 2                  | -      | -      | -      | -    | 782   | 0    |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -    |
| Mov Cap-1 Maneuver       | -      | -      | 1434   | -    | 657   | -    |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 657   | -    |
| Stage 1                  | -      | -      | -      | -    | 1017  | -    |
| Stage 2                  | -      | -      | -      | -    | 712   | -    |
| Approach                 | EB     | WB     | NB     |      |       |      |
| HCM Control Delay, s     | 0      | 7.4    | 0      |      |       |      |
| HCM LOS                  |        |        | A      |      |       |      |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT  |
| Capacity (veh/h)         | -      | -      | -      | -    | 1434  | -    |
| HCM Lane V/C Ratio       | -      | -      | -      | -    | 0.089 | -    |
| HCM Control Delay (s)    | 0      | 0      | -      | -    | 7.8   | -    |
| HCM Lane LOS             | A      | A      | -      | -    | A     | -    |
| HCM 95th %tile Q(veh)    | -      | -      | -      | -    | 0.3   | -    |

| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 4.2    |        |        |      |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR   |
| Lane Configurations      | ↑      | ↗      | ↖      | ↑    | ↗     | ↖     |
| Traffic Vol, veh/h       | 357    | 0      | 0      | 42   | 0     | 0     |
| Future Vol, veh/h        | 504    | 123    | 71     | 104  | 15    | 186   |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | 0      | 250    | -    | 150   | 0     |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -     |
| Peak Hour Factor         | 85     | 85     | 85     | 85   | 85    | 85    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 593    | 145    | 84     | 122  | 18    | 219   |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |       |
| Conflicting Flow All     | 0      | 0      | 738    | 0    | 883   | 593   |
| Stage 1                  | -      | -      | -      | -    | 593   | -     |
| Stage 2                  | -      | -      | -      | -    | 290   | -     |
| Critical Hdwy            | -      | -      | 4.12   | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 868    | -    | 316   | 506   |
| Stage 1                  | -      | -      | -      | -    | 552   | -     |
| Stage 2                  | -      | -      | -      | -    | 759   | -     |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 868    | -    | 285   | 506   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 285   | -     |
| Stage 1                  | -      | -      | -      | -    | 552   | -     |
| Stage 2                  | -      | -      | -      | -    | 685   | -     |
| Approach                 | EB     | WB     | NB     |      |       |       |
| HCM Control Delay, s     | 0      | 3.9    | 17.5   |      |       |       |
| HCM LOS                  |        |        | C      |      |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT   |
| Capacity (veh/h)         | 285    | 506    | -      | -    | 868   | -     |
| HCM Lane V/C Ratio       | 0.062  | 0.432  | -      | -    | 0.096 | -     |
| HCM Control Delay (s)    | 18.5   | 17.4   | -      | -    | 9.6   | -     |
| HCM Lane LOS             | C      | C      | -      | -    | A     | -     |
| HCM 95th %tile Q(veh)    | 0.2    | 2.2    | -      | -    | 0.3   | -     |

Intersection

Int Delay, s/veh 3.1

| Movement                 | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | ↑    | ↑    | ↑    | Y    |      |      |
| Traffic Vol, veh/h       | 357  | 0    | 0    | 42   | 0    | 0    |
| Future Vol, veh/h        | 690  | 0    | 42   | 175  | 0    | 135  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Stop | Stop |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | -    | -    | 300  | -    | 0    | -    |
| Veh in Median Storage, # | 0    | -    | -    | 0    | 0    | -    |
| Grade, %                 | 0    | -    | -    | 0    | 0    | -    |
| Peak Hour Factor         | 85   | 85   | 85   | 85   | 85   | 85   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 2    | 2    | 2    |
| Mvmt Flow                | 812  | 0    | 49   | 206  | 0    | 159  |

| Major/Minor          | Major1 | Major2 | Minor1 |   |             |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0      | 0      | 812    | 0 | 1116 812    |
| Stage 1              | -      | -      | -      | - | 812 -       |
| Stage 2              | -      | -      | -      | - | 304 -       |
| Critical Hdwy        | -      | -      | 4.12   | - | 6.42 6.22   |
| Critical Hdwy Stg 1  | -      | -      | -      | - | 5.42 -      |
| Critical Hdwy Stg 2  | -      | -      | -      | - | 5.42 -      |
| Follow-up Hdwy       | -      | -      | 2.218  | - | 3.518 3.318 |
| Pot Cap-1 Maneuver   | -      | -      | 814    | - | 230 379     |
| Stage 1              | -      | -      | -      | - | 437 -       |
| Stage 2              | -      | -      | -      | - | 748 -       |
| Platoon blocked, %   | -      | -      | -      | - | -           |
| Mov Cap-1 Maneuver   | -      | -      | 814    | - | 216 379     |
| Mov Cap-2 Maneuver   | -      | -      | -      | - | 216 -       |
| Stage 1              | -      | -      | -      | - | 437 -       |
| Stage 2              | -      | -      | -      | - | 703 -       |

| Approach             | EB | WB  | NB   |
|----------------------|----|-----|------|
| HCM Control Delay, s | 0  | 1.9 | 21.2 |
| HCM LOS              |    | C   |      |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL   | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h)      | 379   | -   | -   | 814   | -   |
| HCM Lane V/C Ratio    | 0.419 | -   | -   | 0.061 | -   |
| HCM Control Delay (s) | 21.2  | -   | -   | 9.7   | -   |
| HCM Lane LOS          | C     | -   | -   | A     | -   |
| HCM 95th %tile Q(veh) | 2     | -   | -   | 0.2   | -   |

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

Phase 1-3 Traffic  
AM Peak Hour

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   |      |      |      |      |      |      |      |      |      |     |     |     |
| Traffic Volume (veh/h)  | 44   | 287  | 0    | 0    | 404  | 427  | 45   | 1    | 340  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 166  | 305  | 0    | 0    | 479  | 427  | 193  | 1    | 340  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 996  | 1752 | 0    | 0    | 1826 | 1885 | 1767 | 1900 | 1826 |     |     |     |
| Adj Flow Rate, veh/h  | 180  | 332  | 0    | 0    | 521  | 0    | 210  | 1    | 0    |     |     |     |
| Peak Hour Factor  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |     |     |     |
| Percent Heavy Veh, %  | 61   | 10   | 0    | 0    | 5    | 1    | 9    | 0    | 5    |     |     |     |
| Cap, veh/h  | 392  | 1215 | 0    | 0    | 1821 |      | 259  | 1    |      |     |     |     |
| Arrive On Green   | 0.03 | 0.23 | 0.00 | 0.00 | 0.52 | 0.00 | 0.14 | 0.14 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 949  | 1752 | 0    | 0    | 3561 | 1598 | 1801 | 9    | 1547 |     |     |     |
| Grp Volume(v), veh/h  | 180  | 332  | 0    | 0    | 521  | 0    | 211  | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 949  | 1752 | 0    | 0    | 1735 | 1598 | 1810 | 0    | 1547 |     |     |     |
| Q Serve(g_s), s   | 6.1  | 12.5 | 0.0  | 0.0  | 6.7  | 0.0  | 9.0  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 6.1  | 12.5 | 0.0  | 0.0  | 6.7  | 0.0  | 9.0  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     |
| Lane Grp Cap(c), veh/h  | 392  | 1215 | 0    | 0    | 1821 |      | 260  | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.46 | 0.27 | 0.00 | 0.00 | 0.29 |      | 0.81 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 409  | 1215 | 0    | 0    | 1821 |      | 419  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 0.33 | 0.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 0.98 | 0.98 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 7.3  | 14.3 | 0.0  | 0.0  | 10.6 | 0.0  | 33.2 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.8  | 0.5  | 0.0  | 0.0  | 0.4  | 0.0  | 6.2  | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 1.2  | 5.9  | 0.0  | 0.0  | 2.4  | 0.0  | 4.1  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 8.1  | 14.8 | 0.0  | 0.0  | 11.0 | 0.0  | 39.3 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | B    | A    | A    | B    |      | D    | A    |      |     |     |     |
| Approach Vol, veh/h   |      | 512  |      |      | 521  |      | 211  |      |      |     |     |     |
| Approach Delay, s/veh   |      | 12.4 |      |      | 11.0 |      | 39.3 |      |      |     |     |     |
| Approach LOS  |      | B    |      |      | B    |      | D    |      |      |     |     |     |
| Timer - Assigned Phs  |      | 2    |      |      | 5    | 6    | 8    |      |      |     |     |     |
| Phs Duration (G+Y+Rc), s  |      | 62.0 |      |      | 13.5 | 48.5 | 18.0 |      |      |     |     |     |
| Change Period (Y+Rc), s   |      | 6.5  |      |      | 5.5  | 6.5  | 6.5  |      |      |     |     |     |
| Max Green Setting (Gmax), s   |      | 48.5 |      |      | 9.5  | 33.5 | 18.5 |      |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  |      | 14.5 |      |      | 8.1  | 8.7  | 11.0 |      |      |     |     |     |
| Green Ext Time (p_c), s   |      | 2.1  |      |      | 0.1  | 3.5  | 0.6  |      |      |     |     |     |
| <b>Intersection Summary</b>   |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      | 16.4 |      |      |      |      |      |      |      |     |     |     |
| HCM 6th LOS   |      | B    |      |      |      |      |      |      |      |     |     |     |
| <b>Notes</b>  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

Phase 1-3 Traffic  
AM Peak Hour



| Movement                         | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|----------------------------------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations              |      | ↑↑   | ↑    | ↑    | ↑    |      |     |     |     | ↑↑   | ↑    |      |
| Traffic Volume (veh/h)           | 0    | 147  | 33   | 154  | 296  | 0    | 0   | 0   | 0   | 184  | 2    | 176  |
| Future Volume (veh/h)            | 0    | 287  | 68   | 154  | 519  | 0    | 0   | 0   | 0   | 184  | 2    | 696  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)              | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln           | 0    | 1411 | 1500 | 1781 | 1826 | 0    |     |     |     | 1796 | 1159 | 1663 |
| Adj Flow Rate, veh/h             | 0    | 312  | 0    | 167  | 564  | 0    |     |     |     | 200  | 2    | 0    |
| Peak Hour Factor                 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |     |     |     | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %             | 0    | 33   | 27   | 8    | 5    | 0    |     |     |     | 7    | 50   | 16   |
| Cap, veh/h                       | 0    | 1309 |      | 636  | 1144 | 0    |     |     |     | 231  | 2    |      |
| Arrive On Green                  | 0.00 | 0.49 | 0.00 | 0.07 | 0.63 | 0.00 |     |     |     | 0.21 | 0.21 | 0.00 |
| Sat Flow, veh/h                  | 0    | 2751 | 1271 | 1697 | 1826 | 0    |     |     |     | 1093 | 11   | 1409 |
| Grp Volume(v), veh/h             | 0    | 312  | 0    | 167  | 564  | 0    |     |     |     | 202  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln        | 0    | 1340 | 1271 | 1697 | 1826 | 0    |     |     |     | 1104 | 0    | 1409 |
| Q Serve(g_s), s                  | 0.0  | 5.4  | 0.0  | 3.6  | 13.4 | 0.0  |     |     |     | 14.1 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  | 5.4  | 0.0  | 3.6  | 13.4 | 0.0  |     |     |     | 14.1 | 0.0  | 0.0  |
| Prop In Lane                     | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.99 |      | 1.00 |
| Lane Grp Cap(c), veh/h           | 0    | 1309 |      | 636  | 1144 | 0    |     |     |     | 233  | 0    |      |
| V/C Ratio(X)                     | 0.00 | 0.24 |      | 0.26 | 0.49 | 0.00 |     |     |     | 0.87 | 0.00 |      |
| Avail Cap(c_a), veh/h            | 0    | 1309 |      | 656  | 1144 | 0    |     |     |     | 462  | 0    |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 0.00 | 1.00 | 0.00 | 0.96 | 0.96 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  | 11.8 | 0.0  | 8.1  | 8.1  | 0.0  |     |     |     | 30.5 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  | 0.4  | 0.0  | 0.2  | 1.5  | 0.0  |     |     |     | 9.4  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0     | 1.5  | 0.0  | 1.2  | 4.7  | 0.0  |      |     |     |     | 4.1  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh            | 0.0  | 12.3 | 0.0  | 8.3  | 9.5  | 0.0  |     |     |     | 39.9 | 0.0  | 0.0  |
| LnGrp LOS                        | A    | B    |      | A    | A    |      |     |     |     | D    | A    |      |
| Approach Vol, veh/h              |      | 312  |      |      | 731  |      |     |     |     | 202  |      |      |
| Approach Delay, s/veh            |      | 12.3 |      |      | 9.3  |      |     |     |     | 39.9 |      |      |
| Approach LOS                     |      | B    |      |      | A    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs             | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.0     | 45.6 |      |      | 23.4 |      | 56.6 |     |     |     |      |      |      |
| Change Period (Y+Rc), s          | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s      | 5.5  | 21.5 |      | 33.5 |      | 33.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s      | 5.5  | 7.4  |      | 16.1 |      | 15.4 |     |     |     |      |      |      |
| Green Ext Time (p_c), s          | 0.0  | 1.6  |      | 0.9  |      | 3.4  |     |     |     |      |      |      |
| Intersection Summary             |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay               |      | 15.0 |      |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS                      |      | B    |      |      |      |      |     |     |     |      |      |      |
| Notes                            |      |      |      |      |      |      |     |     |     |      |      |      |

Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

**Intersection**

Intersection Delay, s/veh 27.2

Intersection LOS D

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 17    | 1247  | 309   | 80    |
| Demand Flow Rate, veh/h     | 24    | 1300  | 333   | 87    |
| Vehicles Circulating, veh/h | 1278  | 15    | 98    | 1215  |
| Vehicles Exiting, veh/h     | 24    | 416   | 1204  | 100   |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 14.8  | 33.6  | 5.6   | 13.6  |
| Approach LOS                | B     | D     | A     | B     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 24    | 1300  | 333   | 87    |
| Cap Entry Lane, veh/h | 375   | 1359  | 1249  | 400   |
| Entry HV Adj Factor   | 0.708 | 0.959 | 0.928 | 0.918 |
| Flow Entry, veh/h     | 17    | 1247  | 309   | 80    |
| Cap Entry, veh/h      | 265   | 1303  | 1158  | 367   |
| V/C Ratio             | 0.064 | 0.957 | 0.267 | 0.218 |
| Control Delay, s/veh  | 14.8  | 33.6  | 5.6   | 13.6  |
| LOS                   | B     | D     | A     | B     |
| 95th %tile Queue, veh | 0     | 18    | 1     | 1     |

| Intersection             |       |        |      |       |        |      |      |        |       |       |       |      |
|--------------------------|-------|--------|------|-------|--------|------|------|--------|-------|-------|-------|------|
| Int Delay, s/veh         | 0.3   |        |      |       |        |      |      |        |       |       |       |      |
| Movement                 | EBL   | EBT    | EBR  | WBL   | WBT    | WBR  | NBL  | NBT    | NBR   | SBL   | SBT   | SBR  |
| Lane Configurations      | ↔     | ↑      | ↑    | ↔     | ↔      | ↔    | ↔    | ↔      | ↔     | ↔     | ↔     | ↔    |
| Traffic Vol, veh/h       | 0     | 98     | 0    | 27    | 253    | 1    | 1    | 0      | 8     | 0     | 0     | 1    |
| Future Vol, veh/h        | 0     | 273    | 0    | 27    | 996    | 1    | 1    | 0      | 8     | 0     | 0     | 1    |
| Conflicting Peds, #/hr   | 0     | 0      | 0    | 0     | 0      | 0    | 0    | 0      | 0     | 0     | 0     | 0    |
| Sign Control             | Free  | Free   | Free | Free  | Free   | Free | Stop | Stop   | Stop  | Stop  | Stop  | Stop |
| RT Channelized           | -     | -      | None | -     | -      | None | -    | -      | None  | -     | -     | None |
| Storage Length           | -     | -      | -    | 300   | -      | -    | -    | -      | -     | -     | -     | -    |
| Veh in Median Storage, # | -     | 0      | -    | -     | 0      | -    | -    | 0      | -     | -     | 0     | -    |
| Grade, %                 | -     | 0      | -    | -     | 0      | -    | -    | 0      | -     | -     | 0     | -    |
| Peak Hour Factor         | 92    | 92     | 92   | 92    | 92     | 92   | 92   | 92     | 92    | 92    | 92    | 92   |
| Heavy Vehicles, %        | 2     | 5      | 2    | 9     | 3      | 0    | 100  | 2      | 57    | 2     | 2     | 0    |
| Mvmt Flow                | 0     | 297    | 0    | 29    | 1083   | 1    | 1    | 0      | 9     | 0     | 0     | 1    |
| Major/Minor              |       |        |      |       |        |      |      |        |       |       |       |      |
| Major1                   |       | Major2 |      |       | Minor1 |      |      | Minor2 |       |       |       |      |
| Conflicting Flow All     | 1084  | 0      | 0    | 297   | 0      | 0    | 1439 | 1439   | 297   | 1444  | 1439  | 1084 |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 297  | 297    | -     | 1142  | 1142  | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 1142 | 1142   | -     | 302   | 297   | -    |
| Critical Hdwy            | 4.12  | -      | -    | 4.19  | -      | -    | 8.1  | 6.52   | 6.77  | 7.12  | 6.52  | 6.2  |
| Critical Hdwy Stg 1      | -     | -      | -    | -     | -      | -    | 7.1  | 5.52   | -     | 6.12  | 5.52  | -    |
| Critical Hdwy Stg 2      | -     | -      | -    | -     | -      | -    | 7.1  | 5.52   | -     | 6.12  | 5.52  | -    |
| Follow-up Hdwy           | 2.218 | -      | -    | 2.281 | -      | -    | 4.4  | 4.018  | 3.813 | 3.518 | 4.018 | 3.3  |
| Pot Cap-1 Maneuver       | 643   | -      | -    | 1225  | -      | -    | 68   | 133    | 629   | 110   | 133   | 266  |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 543  | 668    | -     | 244   | 275   | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 160  | 275    | -     | 707   | 668   | -    |
| Platoon blocked, %       | -     | -      | -    | -     | -      | -    | -    | -      | -     | -     | -     | -    |
| Mov Cap-1 Maneuver       | 643   | -      | -    | 1225  | -      | -    | 67   | 130    | 629   | 106   | 130   | 266  |
| Mov Cap-2 Maneuver       | -     | -      | -    | -     | -      | -    | 67   | 130    | -     | 106   | 130   | -    |
| Stage 1                  | -     | -      | -    | -     | -      | -    | 543  | 668    | -     | 244   | 268   | -    |
| Stage 2                  | -     | -      | -    | -     | -      | -    | 156  | 268    | -     | 697   | 668   | -    |
| Approach                 |       |        |      |       |        |      |      |        |       |       |       |      |
| EB                       |       |        | WB   |       |        | NB   |      |        | SB    |       |       |      |
| HCM Control Delay, s     | 0     |        |      | 0.2   |        |      | 16.4 |        |       | 18.6  |       |      |
| HCM LOS                  |       |        |      |       |        |      | C    |        |       | C     |       |      |
| Minor Lane/Major Mvmt    |       |        |      |       |        |      |      |        |       |       |       |      |
| Capacity (veh/h)         | 326   | 643    | -    | -     | 1225   | -    | -    | -      | 266   |       |       |      |
| HCM Lane V/C Ratio       | 0.03  | -      | -    | -     | 0.024  | -    | -    | -      | 0.004 |       |       |      |
| HCM Control Delay (s)    | 16.4  | 0      | -    | -     | 8      | -    | -    | -      | 18.6  |       |       |      |
| HCM Lane LOS             | C     | A      | -    | -     | A      | -    | -    | -      | C     |       |       |      |
| HCM 95th %tile Q(veh)    | 0.1   | 0      | -    | -     | 0.1    | -    | -    | -      | 0     |       |       |      |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 17.7   |        |        |      |       |      |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR  |
| Lane Configurations      | ↑      |        | ↑      | ↑    | ↑     | ↑    |
| Traffic Vol, veh/h       | 5      | 0      | 255    | 5    | 0     | 85   |
| Future Vol, veh/h        | 5      | 0      | 825    | 5    | 0     | 220  |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop |
| RT Channelized           | -      | None   | -      | None | -     | Free |
| Storage Length           | -      | -      | 350    | -    | 0     | 0    |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -    |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -    |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92   |
| Heavy Vehicles, %        | 0      | 2      | 100    | 0    | 2     | 67   |
| Mvmt Flow                | 5      | 0      | 897    | 5    | 0     | 239  |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |      |
| Conflicting Flow All     | 0      | 0      | 5      | 0    | 1804  | -    |
| Stage 1                  | -      | -      | -      | -    | 5     | -    |
| Stage 2                  | -      | -      | -      | -    | 1799  | -    |
| Critical Hdwy            | -      | -      | 5.1    | -    | 6.42  | -    |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -    |
| Follow-up Hdwy           | -      | -      | 3.1    | -    | 3.518 | -    |
| Pot Cap-1 Maneuver       | -      | -      | 1156   | -    | 87    | 0    |
| Stage 1                  | -      | -      | -      | -    | 1018  | 0    |
| Stage 2                  | -      | -      | -      | -    | 145   | 0    |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -    |
| Mov Cap-1 Maneuver       | -      | -      | 1156   | -    | 19    | -    |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 19    | -    |
| Stage 1                  | -      | -      | -      | -    | 1018  | -    |
| Stage 2                  | -      | -      | -      | -    | 32    | -    |
| Approach                 | EB     | WB     | NB     |      |       |      |
| HCM Control Delay, s     | 0      | 17.8   | 0      |      |       |      |
| HCM LOS                  |        |        | A      |      |       |      |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT  |
| Capacity (veh/h)         | -      | -      | -      | -    | 1156  | -    |
| HCM Lane V/C Ratio       | -      | -      | -      | -    | 0.776 | -    |
| HCM Control Delay (s)    | 0      | 0      | -      | -    | 17.9  | -    |
| HCM Lane LOS             | A      | A      | -      | -    | C     | -    |
| HCM 95th %tile Q(veh)    | -      | -      | -      | -    | 8.3   | -    |

| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 1.5    |        |        |      |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR   |
| Lane Configurations      | ↑      | ↗      | ↖      | ↑    | ↖     | ↗     |
| Traffic Vol, veh/h       | 96     | 0      | 0      | 262  | 0     | 0     |
| Future Vol, veh/h        | 219    | 12     | 70     | 798  | 34    | 16    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | 0      | 250    | -    | 150   | 0     |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 238    | 13     | 76     | 867  | 37    | 17    |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |       |
| Conflicting Flow All     | 0      | 0      | 251    | 0    | 1257  | 238   |
| Stage 1                  | -      | -      | -      | -    | 238   | -     |
| Stage 2                  | -      | -      | -      | -    | 1019  | -     |
| Critical Hdwy            | -      | -      | 4.12   | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 1314   | -    | 189   | 801   |
| Stage 1                  | -      | -      | -      | -    | 802   | -     |
| Stage 2                  | -      | -      | -      | -    | 348   | -     |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 1314   | -    | 178   | 801   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 178   | -     |
| Stage 1                  | -      | -      | -      | -    | 802   | -     |
| Stage 2                  | -      | -      | -      | -    | 328   | -     |
| Approach                 | EB     | WB     | NB     |      |       |       |
| HCM Control Delay, s     | 0      | 0.6    | 23.7   |      |       |       |
| HCM LOS                  |        |        | C      |      |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT   |
| Capacity (veh/h)         | 178    | 801    | -      | -    | 1314  | -     |
| HCM Lane V/C Ratio       | 0.208  | 0.022  | -      | -    | 0.058 | -     |
| HCM Control Delay (s)    | 30.4   | 9.6    | -      | -    | 7.9   | -     |
| HCM Lane LOS             | D      | A      | -      | -    | A     | -     |
| HCM 95th %tile Q(veh)    | 0.8    | 0.1    | -      | -    | 0.2   | -     |

| Intersection             |        |        |        |       |       |       |
|--------------------------|--------|--------|--------|-------|-------|-------|
| Int Delay, s/veh         | 1.1    |        |        |       |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT   | NBL   | NBR   |
| Lane Configurations      | ↑      | ↑      | ↑      | ↑     | Y     | Y     |
| Traffic Vol, veh/h       | 96     | 0      | 0      | 262   | 0     | 0     |
| Future Vol, veh/h        | 235    | 0      | 137    | 868   | 0     | 36    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0     | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free  | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None  | -     | None  |
| Storage Length           | -      | -      | 300    | -     | 0     | -     |
| Veh in Median Storage, # | 0      | -      | -      | 0     | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0     | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92    | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2     | 2     | 2     |
| Mvmt Flow                | 255    | 0      | 149    | 943   | 0     | 39    |
| Major/Minor              | Major1 | Major2 | Minor1 |       |       |       |
| Conflicting Flow All     | 0      | 0      | 255    | 0     | 1496  | 255   |
| Stage 1                  | -      | -      | -      | -     | 255   | -     |
| Stage 2                  | -      | -      | -      | -     | 1241  | -     |
| Critical Hdwy            | -      | -      | 4.12   | -     | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -     | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -     | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -     | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 1310   | -     | 135   | 784   |
| Stage 1                  | -      | -      | -      | -     | 788   | -     |
| Stage 2                  | -      | -      | -      | -     | 273   | -     |
| Platoon blocked, %       | -      | -      | -      | -     | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 1310   | -     | 120   | 784   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -     | 120   | -     |
| Stage 1                  | -      | -      | -      | -     | 788   | -     |
| Stage 2                  | -      | -      | -      | -     | 242   | -     |
| Approach                 | EB     | WB     | NB     |       |       |       |
| HCM Control Delay, s     | 0      | 1.1    | 9.8    |       |       |       |
| HCM LOS                  |        |        | A      |       |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | EBT    | EBR    | WBL   | WBT   |       |
| Capacity (veh/h)         | 784    | -      | -      | 1310  | -     |       |
| HCM Lane V/C Ratio       | 0.05   | -      | -      | 0.114 | -     |       |
| HCM Control Delay (s)    | 9.8    | -      | -      | 8.1   | -     |       |
| HCM Lane LOS             | A      | -      | -      | A     | -     |       |
| HCM 95th %tile Q(veh)    | 0.2    | -      | -      | 0.4   | -     |       |

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

Phase 1-3 Traffic  
PM Peak Hour

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   |      |      |      |      |      |      |      |      |      |     |     |     |
| Traffic Volume (veh/h)  | 219  | 728  | 0    | 0    | 191  | 77   | 26   | 30   | 564  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 743  | 802  | 0    | 0    | 216  | 77   | 77   | 30   | 564  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 |      |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 1826 | 1870 | 0    | 0    | 1796 | 1781 | 1455 | 1900 | 1781 |     |     |     |
| Adj Flow Rate, veh/h  | 808  | 872  | 0    | 0    | 235  | 0    | 84   | 33   | 0    |     |     |     |
| Peak Hour Factor  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |     |     |     |
| Percent Heavy Veh, %  | 5    | 2    | 0    | 0    | 7    | 8    | 30   | 0    | 8    |     |     |     |
| Cap, veh/h  | 909  | 1446 | 0    | 0    | 2070 |      | 108  | 43   |      |     |     |     |
| Arrive On Green   | 0.14 | 1.00 | 0.00 | 0.00 | 0.61 | 0.00 | 0.08 | 0.08 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 1739 | 1870 | 0    | 0    | 3503 | 1510 | 1317 | 517  | 1510 |     |     |     |
| Grp Volume(v), veh/h  | 808  | 872  | 0    | 0    | 235  | 0    | 117  | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 1739 | 1870 | 0    | 0    | 1706 | 1510 | 1834 | 0    | 1510 |     |     |     |
| Q Serve(g_s), s   | 9.5  | 0.0  | 0.0  | 0.0  | 2.6  | 0.0  | 5.6  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 9.5  | 0.0  | 0.0  | 0.0  | 2.6  | 0.0  | 5.6  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      | 1.00 | 0.72 |      | 1.00 |     |     |     |
| Lane Grp Cap(c), veh/h  | 909  | 1446 | 0    | 0    | 2070 |      | 151  | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.89 | 0.60 | 0.00 | 0.00 | 0.11 |      | 0.77 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 909  | 1446 | 0    | 0    | 2070 |      | 275  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 1.33 | 1.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 0.32 | 0.32 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 11.0 | 0.0  | 0.0  | 0.0  | 7.5  | 0.0  | 40.5 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 3.9  | 0.6  | 0.0  | 0.0  | 0.1  | 0.0  | 8.2  | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 7.5  | 0.2  | 0.0  | 0.0  | 0.9  | 0.0  | 2.8  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 14.9 | 0.6  | 0.0  | 0.0  | 7.6  | 0.0  | 48.7 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | B    | A    | A    | A    | A    |      | D    | A    |      |     |     |     |
| Approach Vol, veh/h   | 1680 |      |      |      | 235  |      |      | 117  |      |     |     |     |
| Approach Delay, s/veh   | 7.5  |      |      |      | 7.6  |      |      | 48.7 |      |     |     |     |
| Approach LOS  | A    |      |      |      | A    |      |      | D    |      |     |     |     |
| Timer - Assigned Phs  | 2    |      |      |      | 5    | 6    |      | 8    |      |     |     |     |
| Phs Duration (G+Y+Rc), s  | 76.1 |      |      |      | 15.0 | 61.1 |      | 13.9 |      |     |     |     |
| Change Period (Y+Rc), s   | 6.5  |      |      |      | 5.5  | 6.5  |      | 6.5  |      |     |     |     |
| Max Green Setting (Gmax), s   | 63.5 |      |      |      | 9.5  | 48.5 |      | 13.5 |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  | 2.0  |      |      |      | 11.5 | 4.6  |      | 7.6  |      |     |     |     |
| Green Ext Time (p_c), s   | 8.3  |      |      |      | 0.0  | 1.6  |      | 0.2  |      |     |     |     |
| Intersection Summary  |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      |      |      |      | 9.9  |      |      |      |      |     |     |     |
| HCM 6th LOS   |      |      |      |      | A    |      |      |      |      |     |     |     |
| Notes   |      |      |      |      |      |      |      |      |      |     |     |     |
| User approved pedestrian interval to be less than phase max green.  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

Phase 1-3 Traffic  
PM Peak Hour



| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|---|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations   |      |      |      |      |      |      |     |     |     |      |      |      |
| Traffic Volume (veh/h)  | 0    | 661  | 174  | 155  | 62   | 0    | 0   | 0   | 0   | 286  | 5    | 165  |
| Future Volume (veh/h)   | 0    | 1259 | 324  | 155  | 138  | 0    | 0   | 0   | 0   | 286  | 5    | 343  |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach   | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln  | 0    | 1856 | 1767 | 1826 | 1500 | 0    |     |     |     | 1885 | 1870 | 1796 |
| Adj Flow Rate, veh/h  | 0    | 1368 | 0    | 168  | 150  | 0    |     |     |     | 311  | 5    | 0    |
| Peak Hour Factor  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |     |     |     | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %  | 0    | 3    | 9    | 5    | 27   | 0    |     |     |     | 1    | 2    | 7    |
| Cap, veh/h  | 0    | 1834 |      | 275  | 967  | 0    |     |     |     | 369  | 6    |      |
| Arrive On Green   | 0.00 | 0.52 | 0.00 | 0.06 | 0.64 | 0.00 |     |     |     | 0.21 | 0.21 | 0.00 |
| Sat Flow, veh/h   | 0    | 3618 | 1497 | 1739 | 1500 | 0    |     |     |     | 1754 | 28   | 1522 |
| Grp Volume(v), veh/h  | 0    | 1368 | 0    | 168  | 150  | 0    |     |     |     | 316  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln   | 0    | 1763 | 1497 | 1739 | 1500 | 0    |     |     |     | 1783 | 0    | 1522 |
| Q Serve(g_s), s   | 0.0  | 27.4 | 0.0  | 3.8  | 3.6  | 0.0  |     |     |     | 15.3 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s   | 0.0  | 27.4 | 0.0  | 3.8  | 3.6  | 0.0  |     |     |     | 15.3 | 0.0  | 0.0  |
| Prop In Lane  | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.98 |      | 1.00 |
| Lane Grp Cap(c), veh/h  | 0    | 1834 |      | 275  | 967  | 0    |     |     |     | 375  | 0    |      |
| V/C Ratio(X)  | 0.00 | 0.75 |      | 0.61 | 0.16 | 0.00 |     |     |     | 0.84 | 0.00 |      |
| Avail Cap(c_a), veh/h   | 0    | 1834 |      | 289  | 967  | 0    |     |     |     | 763  | 0    |      |
| HCM Platoon Ratio   | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)  | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh  | 0.0  | 16.9 | 0.0  | 16.1 | 6.3  | 0.0  |     |     |     | 34.1 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh  | 0.0  | 2.8  | 0.0  | 3.5  | 0.3  | 0.0  |     |     |     | 5.1  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0  | 10.6 | 0.0  | 1.8  | 1.1  | 0.0  |      |     |     |     | 6.7  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh   | 0.0  | 19.7 | 0.0  | 19.6 | 6.6  | 0.0  |     |     |     | 39.2 | 0.0  | 0.0  |
| LnGrp LOS   | A    | B    |      | B    | A    | A    |     |     |     | D    | A    |      |
| Approach Vol, veh/h   |      | 1368 |      |      | 318  |      |     |     |     | 316  |      |      |
| Approach Delay, s/veh   |      | 19.7 |      |      | 13.5 |      |     |     |     | 39.2 |      |      |
| Approach LOS  |      | B    |      |      | B    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs  | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.2  | 53.3 |      |      | 25.5 |      | 64.5 |     |     |     |      |      |      |
| Change Period (Y+Rc), s   | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s   | 26.5 |      |      | 38.5 |      | 38.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s   | 29.4 |      |      | 17.3 |      | 5.6  |     |     |     |      |      |      |
| Green Ext Time (p_c), s   | 0.0  | 0.0  |      | 1.7  |      | 0.8  |     |     |     |      |      |      |
| Intersection Summary  |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay  |      |      | 21.8 |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS   |      |      | C    |      |      |      |     |     |     |      |      |      |
| Notes   |      |      |      |      |      |      |     |     |     |      |      |      |
| Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |     |     |     |      |      |      |

Intersection

Intersection Delay, s/veh 103.2

Intersection LOS F

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 24    | 420   | 1478  | 80    |
| Demand Flow Rate, veh/h     | 25    | 461   | 1478  | 86    |
| Vehicles Circulating, veh/h | 506   | 12    | 158   | 433   |
| Vehicles Exiting, veh/h     | 13    | 1624  | 373   | 40    |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 4.8   | 6.1   | 137.7 | 5.3   |
| Approach LOS                | A     | A     | F     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 25    | 461   | 1478  | 86    |
| Cap Entry Lane, veh/h | 824   | 1363  | 1174  | 887   |
| Entry HV Adj Factor   | 0.960 | 0.911 | 1.000 | 0.930 |
| Flow Entry, veh/h     | 24    | 420   | 1478  | 80    |
| Cap Entry, veh/h      | 791   | 1242  | 1174  | 825   |
| V/C Ratio             | 0.030 | 0.338 | 1.258 | 0.097 |
| Control Delay, s/veh  | 4.8   | 6.1   | 137.7 | 5.3   |
| LOS                   | A     | A     | F     | A     |
| 95th %tile Queue, veh | 0     | 2     | 49    | 0     |

| Intersection             |       |        |      |      |        |      |       |        |      |       |       |       |
|--------------------------|-------|--------|------|------|--------|------|-------|--------|------|-------|-------|-------|
| Int Delay, s/veh         | 0.3   |        |      |      |        |      |       |        |      |       |       |       |
| Movement                 | EBL   | EBT    | EBR  | WBL  | WBT    | WBR  | NBL   | NBT    | NBR  | SBL   | SBT   | SBR   |
| Lane Configurations      |       |        |      |      |        |      |       |        |      |       |       |       |
| Traffic Vol, veh/h       | 0     | 495    | 0    | 1    | 57     | 0    | 0     | 0      | 15   | 0     | 0     | 0     |
| Future Vol, veh/h        | 0     | 1243   | 0    | 1    | 311    | 0    | 0     | 0      | 15   | 0     | 0     | 0     |
| Conflicting Peds, #/hr   | 0     | 0      | 0    | 0    | 0      | 0    | 0     | 0      | 0    | 0     | 0     | 0     |
| Sign Control             | Free  | Free   | Free | Free | Free   | Free | Stop  | Stop   | Stop | Stop  | Stop  | Stop  |
| RT Channelized           | -     | -      | None | -    | -      | None | -     | -      | None | -     | -     | None  |
| Storage Length           | -     | -      | -    | 300  | -      | -    | -     | -      | -    | -     | -     | -     |
| Veh in Median Storage, # | -     | 0      | -    | -    | 0      | -    | -     | 0      | -    | -     | 0     | -     |
| Grade, %                 | -     | 0      | -    | -    | 0      | -    | -     | 0      | -    | -     | 0     | -     |
| Peak Hour Factor         | 92    | 92     | 92   | 92   | 92     | 92   | 92    | 92     | 92   | 92    | 92    | 92    |
| Heavy Vehicles, %        | 2     | 0      | 2    | 0    | 12     | 2    | 2     | 2      | 0    | 2     | 2     | 2     |
| Mvmt Flow                | 0     | 1351   | 0    | 1    | 338    | 0    | 0     | 0      | 16   | 0     | 0     | 0     |
| Major/Minor              |       |        |      |      |        |      |       |        |      |       |       |       |
| Major1                   |       | Major2 |      |      | Minor1 |      |       | Minor2 |      |       |       |       |
| Conflicting Flow All     | 338   | 0      | 0    | 1351 | 0      | 0    | 1691  | 1691   | 1351 | 1699  | 1691  | 338   |
| Stage 1                  | -     | -      | -    | -    | -      | -    | 1351  | 1351   | -    | 340   | 340   | -     |
| Stage 2                  | -     | -      | -    | -    | -      | -    | 340   | 340    | -    | 1359  | 1351  | -     |
| Critical Hdwy            | 4.12  | -      | -    | 4.1  | -      | -    | 7.12  | 6.52   | 6.2  | 7.12  | 6.52  | 6.22  |
| Critical Hdwy Stg 1      | -     | -      | -    | -    | -      | -    | 6.12  | 5.52   | -    | 6.12  | 5.52  | -     |
| Critical Hdwy Stg 2      | -     | -      | -    | -    | -      | -    | 6.12  | 5.52   | -    | 6.12  | 5.52  | -     |
| Follow-up Hdwy           | 2.218 | -      | -    | 2.2  | -      | -    | 3.518 | 4.018  | 3.3  | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver       | 1221  | -      | -    | 516  | -      | -    | 74    | 93     | 186  | 73    | 93    | 704   |
| Stage 1                  | -     | -      | -    | -    | -      | -    | 185   | 219    | -    | 675   | 639   | -     |
| Stage 2                  | -     | -      | -    | -    | -      | -    | 675   | 639    | -    | 183   | 219   | -     |
| Platoon blocked, %       | -     | -      | -    | -    | -      | -    | -     | -      | -    | -     | -     | -     |
| Mov Cap-1 Maneuver       | 1221  | -      | -    | 516  | -      | -    | 74    | 93     | 186  | 67    | 93    | 704   |
| Mov Cap-2 Maneuver       | -     | -      | -    | -    | -      | -    | 74    | 93     | -    | 67    | 93    | -     |
| Stage 1                  | -     | -      | -    | -    | -      | -    | 185   | 219    | -    | 675   | 638   | -     |
| Stage 2                  | -     | -      | -    | -    | -      | -    | 674   | 638    | -    | 167   | 219   | -     |
| Approach                 |       |        |      |      |        |      |       |        |      |       |       |       |
| EB                       |       |        | WB   |      |        | NB   |       |        | SB   |       |       |       |
| HCM Control Delay, s     | 0     |        |      | 0    |        |      | 26.2  |        |      | 0     |       |       |
| HCM LOS                  |       |        |      |      |        |      | D     |        |      | A     |       |       |
| Minor Lane/Major Mvmt    |       |        |      |      |        |      |       |        |      |       |       |       |
| NBLn1                    |       | EBL    | EBT  | EBR  | WBL    | WBT  | WBR   | SBLn1  |      |       |       |       |
| Capacity (veh/h)         | 186   | 1221   | -    | -    | 516    | -    | -     | -      |      |       |       |       |
| HCM Lane V/C Ratio       | 0.088 | -      | -    | -    | 0.002  | -    | -     | -      |      |       |       |       |
| HCM Control Delay (s)    | 26.2  | 0      | -    | -    | 12     | -    | -     | 0      |      |       |       |       |
| HCM Lane LOS             | D     | A      | -    | -    | B      | -    | -     | A      |      |       |       |       |
| HCM 95th %tile Q(veh)    | 0.3   | 0      | -    | -    | 0      | -    | -     | -      |      |       |       |       |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 7.6    |        |        |      |       |      |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR  |
| Lane Configurations      | ↑      |        | ↑      | ↑    | ↑     | ↑    |
| Traffic Vol, veh/h       | 5      | 0      | 43     | 5    | 0     | 472  |
| Future Vol, veh/h        | 5      | 0      | 199    | 5    | 0     | 1022 |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop |
| RT Channelized           | -      | None   | -      | None | -     | Free |
| Storage Length           | -      | -      | 350    | -    | 0     | 0    |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -    |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -    |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92   |
| Heavy Vehicles, %        | 0      | 2      | 33     | 6    | 2     | 17   |
| Mvmt Flow                | 5      | 0      | 216    | 5    | 0     | 1111 |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |      |
| Conflicting Flow All     | 0      | 0      | 5      | 0    | 442   | -    |
| Stage 1                  | -      | -      | -      | -    | 5     | -    |
| Stage 2                  | -      | -      | -      | -    | 437   | -    |
| Critical Hdwy            | -      | -      | 4.43   | -    | 6.42  | -    |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -    |
| Follow-up Hdwy           | -      | -      | 2.497  | -    | 3.518 | -    |
| Pot Cap-1 Maneuver       | -      | -      | 1435   | -    | 573   | 0    |
| Stage 1                  | -      | -      | -      | -    | 1018  | 0    |
| Stage 2                  | -      | -      | -      | -    | 651   | 0    |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -    |
| Mov Cap-1 Maneuver       | -      | -      | 1435   | -    | 486   | -    |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 486   | -    |
| Stage 1                  | -      | -      | -      | -    | 1018  | -    |
| Stage 2                  | -      | -      | -      | -    | 553   | -    |
| Approach                 | EB     | WB     | NB     |      |       |      |
| HCM Control Delay, s     | 0      | 7.8    | 0      |      |       |      |
| HCM LOS                  |        |        | A      |      |       |      |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT  |
| Capacity (veh/h)         | -      | -      | -      | -    | 1435  | -    |
| HCM Lane V/C Ratio       | -      | -      | -      | -    | 0.151 | -    |
| HCM Control Delay (s)    | 0      | 0      | -      | -    | 8     | -    |
| HCM Lane LOS             | A      | A      | -      | -    | A     | -    |
| HCM 95th %tile Q(veh)    | -      | -      | -      | -    | 0.5   | -    |

| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 5.8    |        |        |      |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR   |
| Lane Configurations      | ↑      | ↗      | ↖      | ↑    | ↖     | ↗     |
| Traffic Vol, veh/h       | 490    | 0      | 0      | 57   | 0     | 0     |
| Future Vol, veh/h        | 916    | 124    | 70     | 199  | 14    | 187   |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | 0      | 250    | -    | 150   | 0     |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 996    | 135    | 76     | 216  | 15    | 203   |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |       |
| Conflicting Flow All     | 0      | 0      | 1131   | 0    | 1364  | 996   |
| Stage 1                  | -      | -      | -      | -    | 996   | -     |
| Stage 2                  | -      | -      | -      | -    | 368   | -     |
| Critical Hdwy            | -      | -      | 4.12   | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 618    | -    | 163   | 297   |
| Stage 1                  | -      | -      | -      | -    | 357   | -     |
| Stage 2                  | -      | -      | -      | -    | 700   | -     |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 618    | -    | 143   | 297   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 143   | -     |
| Stage 1                  | -      | -      | -      | -    | 357   | -     |
| Stage 2                  | -      | -      | -      | -    | 614   | -     |
| Approach                 | EB     | WB     | NB     |      |       |       |
| HCM Control Delay, s     | 0      | 3      | 39.3   |      |       |       |
| HCM LOS                  |        |        | E      |      |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT   |
| Capacity (veh/h)         | 143    | 297    | -      | -    | 618   | -     |
| HCM Lane V/C Ratio       | 0.106  | 0.684  | -      | -    | 0.123 | -     |
| HCM Control Delay (s)    | 33.2   | 39.8   | -      | -    | 11.6  | -     |
| HCM Lane LOS             | D      | E      | -      | -    | B     | -     |
| HCM 95th %tile Q(veh)    | 0.3    | 4.7    | -      | -    | 0.4   | -     |

| Intersection             |        |        |        |       |       |       |
|--------------------------|--------|--------|--------|-------|-------|-------|
| Int Delay, s/veh         | 4.4    |        |        |       |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT   | NBL   | NBR   |
| Lane Configurations      | ↑      | ↑      | ↑      | ↑     | Y     | Y     |
| Traffic Vol, veh/h       | 490    | 0      | 0      | 57    | 0     | 0     |
| Future Vol, veh/h        | 1103   | 0      | 42     | 269   | 0     | 135   |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0     | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free  | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None  | -     | None  |
| Storage Length           | -      | -      | 300    | -     | 0     | -     |
| Veh in Median Storage, # | 0      | -      | -      | 0     | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0     | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92    | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2     | 2     | 2     |
| Mvmt Flow                | 1199   | 0      | 46     | 292   | 0     | 147   |
| Major/Minor              | Major1 | Major2 | Minor1 |       |       |       |
| Conflicting Flow All     | 0      | 0      | 1199   | 0     | 1583  | 1199  |
| Stage 1                  | -      | -      | -      | -     | 1199  | -     |
| Stage 2                  | -      | -      | -      | -     | 384   | -     |
| Critical Hdwy            | -      | -      | 4.12   | -     | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -     | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -     | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -     | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 582    | -     | 120   | 226   |
| Stage 1                  | -      | -      | -      | -     | 286   | -     |
| Stage 2                  | -      | -      | -      | -     | 688   | -     |
| Platoon blocked, %       | -      | -      | -      | -     | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 582    | -     | 111   | 226   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -     | 111   | -     |
| Stage 1                  | -      | -      | -      | -     | 286   | -     |
| Stage 2                  | -      | -      | -      | -     | 634   | -     |
| Approach                 | EB     | WB     | NB     |       |       |       |
| HCM Control Delay, s     | 0      | 1.6    | 46.3   |       |       |       |
| HCM LOS                  |        |        | E      |       |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | EBT    | EBR    | WBL   | WBT   |       |
| Capacity (veh/h)         | 226    | -      | -      | 582   | -     |       |
| HCM Lane V/C Ratio       | 0.649  | -      | -      | 0.078 | -     |       |
| HCM Control Delay (s)    | 46.3   | -      | -      | 11.7  | -     |       |
| HCM Lane LOS             | E      | -      | -      | B     | -     |       |
| HCM 95th %tile Q(veh)    | 4      | -      | -      | 0.3   | -     |       |

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

Buildout Traffic  
AM Peak Hour

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   |      |      |      |      |      |      |      |      |      |     |     |     |
| Traffic Volume (veh/h)  | 42   | 272  | 0    | 0    | 370  | 452  | 41   | 1    | 360  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 120  | 283  | 0    | 0    | 436  | 452  | 117  | 1    | 364  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 996  | 1752 | 0    | 0    | 1826 | 1885 | 1767 | 1900 | 1826 |     |     |     |
| Adj Flow Rate, veh/h  | 126  | 298  | 0    | 0    | 459  | 0    | 123  | 1    | 0    |     |     |     |
| Peak Hour Factor  | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |     |     |     |
| Percent Heavy Veh, %  | 61   | 10   | 0    | 0    | 5    | 1    | 9    | 0    | 5    |     |     |     |
| Cap, veh/h  | 427  | 1309 | 0    | 0    | 2127 |      | 162  | 1    |      |     |     |     |
| Arrive On Green   | 0.02 | 0.25 | 0.00 | 0.00 | 0.61 | 0.00 | 0.09 | 0.09 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 949  | 1752 | 0    | 0    | 3561 | 1598 | 1796 | 15   | 1547 |     |     |     |
| Grp Volume(v), veh/h  | 126  | 298  | 0    | 0    | 459  | 0    | 124  | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 949  | 1752 | 0    | 0    | 1735 | 1598 | 1810 | 0    | 1547 |     |     |     |
| Q Serve(g_s), s   | 3.5  | 10.9 | 0.0  | 0.0  | 4.7  | 0.0  | 5.4  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 3.5  | 10.9 | 0.0  | 0.0  | 4.7  | 0.0  | 5.4  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      | 1.00 | 0.99 |      | 1.00 |     |     |     |
| Lane Grp Cap(c), veh/h  | 427  | 1309 | 0    | 0    | 2127 |      | 163  | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.29 | 0.23 | 0.00 | 0.00 | 0.22 |      | 0.76 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 478  | 1309 | 0    | 0    | 2127 |      | 419  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 0.33 | 0.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 0.99 | 0.99 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 4.6  | 11.7 | 0.0  | 0.0  | 6.9  | 0.0  | 35.5 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.4  | 0.4  | 0.0  | 0.0  | 0.2  | 0.0  | 7.0  | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 0.6  | 4.7  | 0.0  | 0.0  | 1.5  | 0.0  | 2.5  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 5.0  | 12.1 | 0.0  | 0.0  | 7.1  | 0.0  | 42.6 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | B    | A    | A    | A    |      | D    | A    |      |     |     |     |
| Approach Vol, veh/h   |      | 424  |      |      | 459  |      |      | 124  |      |     |     |     |
| Approach Delay, s/veh   |      | 10.0 |      |      | 7.1  |      |      | 42.6 |      |     |     |     |
| Approach LOS  |      | A    |      |      | A    |      |      | D    |      |     |     |     |
| Timer - Assigned Phs  |      | 2    |      |      | 5    | 6    |      | 8    |      |     |     |     |
| Phs Duration (G+Y+Rc), s  |      | 66.3 |      |      | 10.7 | 55.6 |      | 13.7 |      |     |     |     |
| Change Period (Y+Rc), s   |      | 6.5  |      |      | 5.5  | 6.5  |      | 6.5  |      |     |     |     |
| Max Green Setting (Gmax), s   |      | 48.5 |      |      | 9.5  | 33.5 |      | 18.5 |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  |      | 12.9 |      |      | 5.5  | 6.7  |      | 7.4  |      |     |     |     |
| Green Ext Time (p_c), s   |      | 1.8  |      |      | 0.1  | 3.1  |      | 0.4  |      |     |     |     |
| Intersection Summary  |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      |      |      | 12.7 |      |      |      |      |      |     |     |     |
| HCM 6th LOS   |      |      |      | B    |      |      |      |      |      |     |     |     |
| Notes   |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

Buildout Traffic  
AM Peak Hour



| Movement                         | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|----------------------------------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations              |      | ↑↑   |      | ↑    | ↑    |      |     |     |     | ↑↑   | ↑    |      |
| Traffic Volume (veh/h)           | 0    | 119  | 27   | 163  | 249  | 0    | 0   | 0   | 0   | 195  | 3    | 148  |
| Future Volume (veh/h)            | 0    | 208  | 47   | 182  | 372  | 0    | 0   | 0   | 0   | 195  | 3    | 467  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)              | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln           | 0    | 1411 | 1500 | 1781 | 1826 | 0    |     |     |     | 1796 | 1159 | 1663 |
| Adj Flow Rate, veh/h             | 0    | 219  | 0    | 192  | 392  | 0    |     |     |     | 205  | 3    | 0    |
| Peak Hour Factor                 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |     |     |     | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, %             | 0    | 33   | 27   | 8    | 5    | 0    |     |     |     | 7    | 50   | 16   |
| Cap, veh/h                       | 0    | 1271 |      | 695  | 1134 | 0    |     |     |     | 236  | 3    |      |
| Arrive On Green                  | 0.00 | 0.47 | 0.00 | 0.08 | 0.62 | 0.00 |     |     |     | 0.22 | 0.22 | 0.00 |
| Sat Flow, veh/h                  | 0    | 2751 | 1271 | 1697 | 1826 | 0    |     |     |     | 1089 | 16   | 1409 |
| Grp Volume(v), veh/h             | 0    | 219  | 0    | 192  | 392  | 0    |     |     |     | 208  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln        | 0    | 1340 | 1271 | 1697 | 1826 | 0    |     |     |     | 1105 | 0    | 1409 |
| Q Serve(g_s), s                  | 0.0  | 3.7  | 0.0  | 4.3  | 8.3  | 0.0  |     |     |     | 14.5 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  | 3.7  | 0.0  | 4.3  | 8.3  | 0.0  |     |     |     | 14.5 | 0.0  | 0.0  |
| Prop In Lane                     | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.99 |      | 1.00 |
| Lane Grp Cap(c), veh/h           | 0    | 1271 |      | 695  | 1134 | 0    |     |     |     | 239  | 0    |      |
| V/C Ratio(X)                     | 0.00 | 0.17 |      | 0.28 | 0.35 | 0.00 |     |     |     | 0.87 | 0.00 |      |
| Avail Cap(c_a), veh/h            | 0    | 1271 |      | 701  | 1134 | 0    |     |     |     | 463  | 0    |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 0.00 | 1.00 | 0.00 | 0.98 | 0.98 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  | 12.0 | 0.0  | 8.3  | 7.3  | 0.0  |     |     |     | 30.2 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  | 0.3  | 0.0  | 0.2  | 0.8  | 0.0  |     |     |     | 9.3  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0     | 1.1  | 0.0  | 1.4  | 2.9  | 0.0  |      |     |     |     | 4.2  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh            | 0.0  | 12.3 | 0.0  | 8.5  | 8.1  | 0.0  |     |     |     | 39.6 | 0.0  | 0.0  |
| LnGrp LOS                        | A    | B    |      | A    | A    |      |     |     |     | D    | A    |      |
| Approach Vol, veh/h              |      | 219  |      |      | 584  |      |     |     |     | 208  |      |      |
| Approach Delay, s/veh            |      | 12.3 |      |      | 8.3  |      |     |     |     | 39.6 |      |      |
| Approach LOS                     |      | B    |      |      | A    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs             | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.7     | 44.4 |      |      | 23.8 |      | 56.2 |     |     |     |      |      |      |
| Change Period (Y+Rc), s          | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s      | 5.5  | 21.5 |      | 33.5 |      | 33.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s      | 5.7  | 16.5 |      | 16.5 |      | 10.3 |     |     |     |      |      |      |
| Green Ext Time (p_c), s          | 0.0  | 1.1  |      | 1.0  |      | 2.3  |     |     |     |      |      |      |
| Intersection Summary             |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay               |      | 15.6 |      |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS                      |      | B    |      |      |      |      |     |     |     |      |      |      |
| Notes                            |      |      |      |      |      |      |     |     |     |      |      |      |

Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

**Intersection**

Intersection Delay, s/veh 9.0

Intersection LOS A

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 16    | 806   | 190   | 82    |
| Demand Flow Rate, veh/h     | 22    | 841   | 204   | 90    |
| Vehicles Circulating, veh/h | 819   | 15    | 97    | 755   |
| Vehicles Exiting, veh/h     | 26    | 286   | 744   | 101   |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 8.8   | 10.2  | 4.5   | 7.9   |
| Approach LOS                | A     | B     | A     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 22    | 841   | 204   | 90    |
| Cap Entry Lane, veh/h | 599   | 1359  | 1250  | 639   |
| Entry HV Adj Factor   | 0.727 | 0.958 | 0.931 | 0.910 |
| Flow Entry, veh/h     | 16    | 806   | 190   | 82    |
| Cap Entry, veh/h      | 435   | 1302  | 1163  | 581   |
| V/C Ratio             | 0.037 | 0.619 | 0.163 | 0.141 |
| Control Delay, s/veh  | 8.8   | 10.2  | 4.5   | 7.9   |
| LOS                   | A     | B     | A     | A     |
| 95th %tile Queue, veh | 0     | 5     | 1     | 0     |

HCM 6th TWSC  
15: Fountain Utilities access & Charter Oak Ranch Rd

Buildout Traffic  
AM Peak Hour

Intersection

Int Delay, s/veh 0.4

| Movement                 | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations      |      |      |      |      |      |      |      |      |      |      |      |      |
| Traffic Vol, veh/h       | 0    | 59   | 0    | 28   | 165  | 1    | 1    | 0    | 9    | 0    | 0    | 1    |
| Future Vol, veh/h        | 0    | 168  | 0    | 28   | 607  | 1    | 1    | 0    | 9    | 0    | 0    | 1    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized           | -    | -    | None |
| Storage Length           | -    | -    | -    | 300  | -    | -    | -    | -    | -    | -    | -    | -    |
| Veh in Median Storage, # | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                 | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor         | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   |
| Heavy Vehicles, %        | 2    | 5    | 2    | 9    | 3    | 0    | 100  | 2    | 57   | 2    | 2    | 0    |
| Mvmt Flow                | 0    | 177  | 0    | 29   | 639  | 1    | 1    | 0    | 9    | 0    | 0    | 1    |

| Major/Minor          | Major1 | Major2 |   | Minor1 |   | Minor2 |     |       |       |       |       |     |
|----------------------|--------|--------|---|--------|---|--------|-----|-------|-------|-------|-------|-----|
| Conflicting Flow All | 640    | 0      | 0 | 177    | 0 | 0      | 875 | 875   | 177   | 880   | 875   | 640 |
| Stage 1              | -      | -      | - | -      | - | -      | 177 | 177   | -     | 698   | 698   | -   |
| Stage 2              | -      | -      | - | -      | - | -      | 698 | 698   | -     | 182   | 177   | -   |
| Critical Hdwy        | 4.12   | -      | - | 4.19   | - | -      | 8.1 | 6.52  | 6.77  | 7.12  | 6.52  | 6.2 |
| Critical Hdwy Stg 1  | -      | -      | - | -      | - | -      | 7.1 | 5.52  | -     | 6.12  | 5.52  | -   |
| Critical Hdwy Stg 2  | -      | -      | - | -      | - | -      | 7.1 | 5.52  | -     | 6.12  | 5.52  | -   |
| Follow-up Hdwy       | 2.218  | -      | - | 2.281  | - | -      | 4.4 | 4.018 | 3.813 | 3.518 | 4.018 | 3.3 |
| Pot Cap-1 Maneuver   | 944    | -      | - | 1358   | - | -      | 186 | 288   | 742   | 268   | 288   | 479 |
| Stage 1              | -      | -      | - | -      | - | -      | 642 | 753   | -     | 431   | 442   | -   |
| Stage 2              | -      | -      | - | -      | - | -      | 307 | 442   | -     | 820   | 753   | -   |
| Platoon blocked, %   | -      | -      | - | -      | - | -      | -   | -     | -     | -     | -     | -   |
| Mov Cap-1 Maneuver   | 944    | -      | - | 1358   | - | -      | 183 | 282   | 742   | 260   | 282   | 479 |
| Mov Cap-2 Maneuver   | -      | -      | - | -      | - | -      | 183 | 282   | -     | 260   | 282   | -   |
| Stage 1              | -      | -      | - | -      | - | -      | 642 | 753   | -     | 431   | 433   | -   |
| Stage 2              | -      | -      | - | -      | - | -      | 300 | 433   | -     | 810   | 753   | -   |

| Approach              | EB    | WB  |     | NB   |       | SB   |     |       |
|-----------------------|-------|-----|-----|------|-------|------|-----|-------|
| HCM Control Delay, s  | 0     | 0.3 |     | 11.5 |       | 12.5 |     |       |
| HCM LOS               |       |     |     | B    |       | B    |     |       |
| <hr/>                 |       |     |     |      |       |      |     |       |
| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR  | WBL   | WBT  | WBR | SBLn1 |
| Capacity (veh/h)      | 568   | 944 | -   | -    | 1358  | -    | -   | 479   |
| HCM Lane V/C Ratio    | 0.019 | -   | -   | -    | 0.022 | -    | -   | 0.002 |
| HCM Control Delay (s) | 11.5  | 0   | -   | -    | 7.7   | -    | -   | 12.5  |
| HCM Lane LOS          | B     | A   | -   | -    | A     | -    | -   | B     |
| HCM 95th %tile Q(veh) | 0.1   | 0   | -   | -    | 0.1   | -    | -   | 0     |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 10     |        |        |      |       |      |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR  |
| Lane Configurations      | ↑      |        | ↑      | ↑    | ↑     | ↑    |
| Traffic Vol, veh/h       | 5      | 0      | 163    | 5    | 0     | 54   |
| Future Vol, veh/h        | 5      | 0      | 442    | 5    | 0     | 125  |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop |
| RT Channelized           | -      | None   | -      | None | -     | Free |
| Storage Length           | -      | -      | 350    | -    | 0     | 0    |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -    |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -    |
| Peak Hour Factor         | 95     | 95     | 95     | 95   | 95    | 95   |
| Heavy Vehicles, %        | 0      | 2      | 100    | 0    | 2     | 67   |
| Mvmt Flow                | 5      | 0      | 465    | 5    | 0     | 132  |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |      |
| Conflicting Flow All     | 0      | 0      | 5      | 0    | 940   | -    |
| Stage 1                  | -      | -      | -      | -    | 5     | -    |
| Stage 2                  | -      | -      | -      | -    | 935   | -    |
| Critical Hdwy            | -      | -      | 5.1    | -    | 6.42  | -    |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -    |
| Follow-up Hdwy           | -      | -      | 3.1    | -    | 3.518 | -    |
| Pot Cap-1 Maneuver       | -      | -      | 1156   | -    | 293   | 0    |
| Stage 1                  | -      | -      | -      | -    | 1018  | 0    |
| Stage 2                  | -      | -      | -      | -    | 382   | 0    |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -    |
| Mov Cap-1 Maneuver       | -      | -      | 1156   | -    | 175   | -    |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 175   | -    |
| Stage 1                  | -      | -      | -      | -    | 1018  | -    |
| Stage 2                  | -      | -      | -      | -    | 228   | -    |
| Approach                 | EB     | WB     | NB     |      |       |      |
| HCM Control Delay, s     | 0      | 10.1   | 0      |      |       |      |
| HCM LOS                  |        |        | A      |      |       |      |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT  |
| Capacity (veh/h)         | -      | -      | -      | -    | 1156  | -    |
| HCM Lane V/C Ratio       | -      | -      | -      | -    | 0.402 | -    |
| HCM Control Delay (s)    | 0      | 0      | -      | -    | 10.2  | -    |
| HCM Lane LOS             | A      | A      | -      | -    | B     | -    |
| HCM 95th %tile Q(veh)    | -      | -      | -      | -    | 2     | -    |

| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 1.8    |        |        |      |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR   |
| Lane Configurations      | ↑      | ↗      | ↖      | ↑    | ↖     | ↗     |
| Traffic Vol, veh/h       | 59     | 0      | 0      | 168  | 0     | 0     |
| Future Vol, veh/h        | 118    | 12     | 69     | 413  | 34    | 16    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | 0      | 250    | -    | 150   | 0     |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -     |
| Peak Hour Factor         | 95     | 95     | 95     | 95   | 95    | 95    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 124    | 13     | 73     | 435  | 36    | 17    |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |       |
| Conflicting Flow All     | 0      | 0      | 137    | 0    | 705   | 124   |
| Stage 1                  | -      | -      | -      | -    | 124   | -     |
| Stage 2                  | -      | -      | -      | -    | 581   | -     |
| Critical Hdwy            | -      | -      | 4.12   | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 1447   | -    | 403   | 927   |
| Stage 1                  | -      | -      | -      | -    | 902   | -     |
| Stage 2                  | -      | -      | -      | -    | 559   | -     |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 1447   | -    | 383   | 927   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 383   | -     |
| Stage 1                  | -      | -      | -      | -    | 902   | -     |
| Stage 2                  | -      | -      | -      | -    | 531   | -     |
| Approach                 | EB     | WB     | NB     |      |       |       |
| HCM Control Delay, s     | 0      | 1.1    | 13.4   |      |       |       |
| HCM LOS                  |        |        | B      |      |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT   |
| Capacity (veh/h)         | 383    | 927    | -      | -    | 1447  | -     |
| HCM Lane V/C Ratio       | 0.093  | 0.018  | -      | -    | 0.05  | -     |
| HCM Control Delay (s)    | 15.4   | 9      | -      | -    | 7.6   | -     |
| HCM Lane LOS             | C      | A      | -      | -    | A     | -     |
| HCM 95th %tile Q(veh)    | 0.3    | 0.1    | -      | -    | 0.2   | -     |

| Intersection             |        |        |        |       |       |       |
|--------------------------|--------|--------|--------|-------|-------|-------|
| Int Delay, s/veh         | 1.7    |        |        |       |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT   | NBL   | NBR   |
| Lane Configurations      | ↑      | ↑      | ↑      | ↑     | Y     | Y     |
| Traffic Vol, veh/h       | 59     | 0      | 0      | 168   | 0     | 0     |
| Future Vol, veh/h        | 134    | 0      | 128    | 482   | 0     | 34    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0     | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free  | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None  | -     | None  |
| Storage Length           | -      | -      | 300    | -     | 0     | -     |
| Veh in Median Storage, # | 0      | -      | -      | 0     | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0     | 0     | -     |
| Peak Hour Factor         | 95     | 95     | 95     | 95    | 95    | 95    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2     | 2     | 2     |
| Mvmt Flow                | 141    | 0      | 135    | 507   | 0     | 36    |
| Major/Minor              | Major1 | Major2 | Minor1 |       |       |       |
| Conflicting Flow All     | 0      | 0      | 141    | 0     | 918   | 141   |
| Stage 1                  | -      | -      | -      | -     | 141   | -     |
| Stage 2                  | -      | -      | -      | -     | 777   | -     |
| Critical Hdwy            | -      | -      | 4.12   | -     | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -     | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -     | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -     | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 1442   | -     | 302   | 907   |
| Stage 1                  | -      | -      | -      | -     | 886   | -     |
| Stage 2                  | -      | -      | -      | -     | 453   | -     |
| Platoon blocked, %       | -      | -      | -      | -     | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 1442   | -     | 274   | 907   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -     | 274   | -     |
| Stage 1                  | -      | -      | -      | -     | 886   | -     |
| Stage 2                  | -      | -      | -      | -     | 410   | -     |
| Approach                 | EB     | WB     | NB     |       |       |       |
| HCM Control Delay, s     | 0      | 1.6    | 9.1    |       |       |       |
| HCM LOS                  |        |        | A      |       |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | EBT    | EBR    | WBL   | WBT   |       |
| Capacity (veh/h)         | 907    | -      | -      | 1442  | -     |       |
| HCM Lane V/C Ratio       | 0.039  | -      | -      | 0.093 | -     |       |
| HCM Control Delay (s)    | 9.1    | -      | -      | 7.8   | -     |       |
| HCM Lane LOS             | A      | -      | -      | A     | -     |       |
| HCM 95th %tile Q(veh)    | 0.1    | -      | -      | 0.3   | -     |       |

HCM 6th Signalized Intersection Summary  
3: I-25 NB Ramps & US 85

Buildout Traffic  
PM Peak Hour

| Movement  | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| Lane Configurations   | ↑    | ↑    |      |      | ↑↑   | ↑    |      | ↑    | ↑    |     |     |     |
| Traffic Volume (veh/h)  | 192  | 638  | 0    | 0    | 196  | 82   | 26   | 32   | 596  | 0   | 0   | 0   |
| Future Volume (veh/h)   | 522  | 684  | 0    | 0    | 218  | 82   | 72   | 32   | 614  | 0   | 0   | 0   |
| Initial Q (Q <sub>b</sub> ), veh  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     |
| Ped-Bike Adj(A_pbT)   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     |
| Parking Bus, Adj  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Work Zone On Approach   |      | No   |      |      | No   |      |      | No   |      |     |     |     |
| Adj Sat Flow, veh/h/ln  | 1826 | 1870 | 0    | 0    | 1796 | 1781 | 1455 | 1900 | 1781 |     |     |     |
| Adj Flow Rate, veh/h  | 549  | 720  | 0    | 0    | 229  | 0    | 76   | 34   | 0    |     |     |     |
| Peak Hour Factor  | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |     |     |     |
| Percent Heavy Veh, %  | 5    | 2    | 0    | 0    | 7    | 8    | 30   | 0    | 8    |     |     |     |
| Cap, veh/h  | 919  | 1455 | 0    | 0    | 2085 |      | 99   | 44   |      |     |     |     |
| Arrive On Green   | 0.14 | 1.00 | 0.00 | 0.00 | 0.61 | 0.00 | 0.08 | 0.08 | 0.00 |     |     |     |
| Sat Flow, veh/h   | 1739 | 1870 | 0    | 0    | 3503 | 1510 | 1269 | 568  | 1510 |     |     |     |
| Grp Volume(v), veh/h  | 549  | 720  | 0    | 0    | 229  | 0    | 110  | 0    | 0    |     |     |     |
| Grp Sat Flow(s), veh/h/ln   | 1739 | 1870 | 0    | 0    | 1706 | 1510 | 1837 | 0    | 1510 |     |     |     |
| Q Serve(g_s), s   | 9.5  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 5.3  | 0.0  | 0.0  |     |     |     |
| Cycle Q Clear(g_c), s   | 9.5  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 5.3  | 0.0  | 0.0  |     |     |     |
| Prop In Lane  | 1.00 |      | 0.00 | 0.00 |      | 1.00 | 0.69 |      | 1.00 |     |     |     |
| Lane Grp Cap(c), veh/h  | 919  | 1455 | 0    | 0    | 2085 |      | 143  | 0    |      |     |     |     |
| V/C Ratio(X)  | 0.60 | 0.49 | 0.00 | 0.00 | 0.11 |      | 0.77 | 0.00 |      |     |     |     |
| Avail Cap(c_a), veh/h   | 919  | 1455 | 0    | 0    | 2085 |      | 275  | 0    |      |     |     |     |
| HCM Platoon Ratio   | 1.33 | 1.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     |
| Upstream Filter(l)  | 0.72 | 0.72 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 |     |     |     |
| Uniform Delay (d), s/veh  | 5.2  | 0.0  | 0.0  | 0.0  | 7.3  | 0.0  | 40.7 | 0.0  | 0.0  |     |     |     |
| Incr Delay (d2), s/veh  | 0.8  | 0.9  | 0.0  | 0.0  | 0.1  | 0.0  | 8.4  | 0.0  | 0.0  |     |     |     |
| Initial Q Delay(d3), s/veh  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     |
| %ile BackOfQ(50%), veh/ln   | 2.8  | 0.4  | 0.0  | 0.0  | 0.8  | 0.0  | 2.6  | 0.0  | 0.0  |     |     |     |
| Unsig. Movement Delay, s/veh  |      |      |      |      |      |      |      |      |      |     |     |     |
| LnGrp Delay(d), s/veh   | 6.0  | 0.9  | 0.0  | 0.0  | 7.4  | 0.0  | 49.1 | 0.0  | 0.0  |     |     |     |
| LnGrp LOS   | A    | A    | A    | A    | A    |      | D    | A    |      |     |     |     |
| Approach Vol, veh/h   | 1269 |      |      |      | 229  |      |      | 110  |      |     |     |     |
| Approach Delay, s/veh   | 3.1  |      |      |      | 7.4  |      |      | 49.1 |      |     |     |     |
| Approach LOS  | A    |      |      |      | A    |      |      | D    |      |     |     |     |
| Timer - Assigned Phs  | 2    |      |      |      | 5    | 6    |      | 8    |      |     |     |     |
| Phs Duration (G+Y+Rc), s  | 76.5 |      |      |      | 15.0 | 61.5 |      | 13.5 |      |     |     |     |
| Change Period (Y+Rc), s   | 6.5  |      |      |      | 5.5  | 6.5  |      | 6.5  |      |     |     |     |
| Max Green Setting (Gmax), s   | 63.5 |      |      |      | 9.5  | 48.5 |      | 13.5 |      |     |     |     |
| Max Q Clear Time (g_c+l1), s  | 2.0  |      |      |      | 11.5 | 4.5  |      | 7.3  |      |     |     |     |
| Green Ext Time (p_c), s   | 5.9  |      |      |      | 0.0  | 1.5  |      | 0.2  |      |     |     |     |
| Intersection Summary  |      |      |      |      |      |      |      |      |      |     |     |     |
| HCM 6th Ctrl Delay  |      |      |      |      | 6.9  |      |      |      |      |     |     |     |
| HCM 6th LOS   |      |      |      |      | A    |      |      |      |      |     |     |     |
| Notes   |      |      |      |      |      |      |      |      |      |     |     |     |
| User approved pedestrian interval to be less than phase max green.  |      |      |      |      |      |      |      |      |      |     |     |     |
| Unsignalized Delay for [NBR, WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |      |      |      |      |      |      |      |     |     |     |

HCM 6th Signalized Intersection Summary  
6: I-25 SB Ramps & US 85

Buildout Traffic  
PM Peak Hour



| Movement                         | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL | NBT | NBR | SBL  | SBT  | SBR  |
|----------------------------------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| Lane Configurations              |      | ↑↑   |      | ↑    | ↑    |      |     |     |     | ↑↑   | ↑    |      |
| Traffic Volume (veh/h)           | 0    | 528  | 139  | 164  | 58   | 0    | 0   | 0   | 0   | 302  | 5    | 155  |
| Future Volume (veh/h)            | 0    | 904  | 229  | 169  | 121  | 0    | 0   | 0   | 0   | 302  | 5    | 279  |
| Initial Q (Q <sub>b</sub> ), veh | 0    | 0    | 0    | 0    | 0    | 0    |     |     |     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)              | 1.00 |      | 1.00 | 1.00 |      | 1.00 |     |     |     | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No   |      |      | No   |      |      |     |     |     | No   |      |      |
| Adj Sat Flow, veh/h/ln           | 0    | 1856 | 1767 | 1826 | 1500 | 0    |     |     |     | 1885 | 1870 | 1796 |
| Adj Flow Rate, veh/h             | 0    | 952  | 0    | 178  | 127  | 0    |     |     |     | 318  | 5    | 0    |
| Peak Hour Factor                 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |     |     |     | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, %             | 0    | 3    | 9    | 5    | 27   | 0    |     |     |     | 1    | 2    | 7    |
| Cap, veh/h                       | 0    | 1808 |      | 388  | 961  | 0    |     |     |     | 377  | 6    |      |
| Arrive On Green                  | 0.00 | 0.51 | 0.00 | 0.07 | 0.64 | 0.00 |     |     |     | 0.21 | 0.21 | 0.00 |
| Sat Flow, veh/h                  | 0    | 3618 | 1497 | 1739 | 1500 | 0    |     |     |     | 1755 | 28   | 1522 |
| Grp Volume(v), veh/h             | 0    | 952  | 0    | 178  | 127  | 0    |     |     |     | 323  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln        | 0    | 1763 | 1497 | 1739 | 1500 | 0    |     |     |     | 1783 | 0    | 1522 |
| Q Serve(g_s), s                  | 0.0  | 16.2 | 0.0  | 4.1  | 3.0  | 0.0  |     |     |     | 15.6 | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s            | 0.0  | 16.2 | 0.0  | 4.1  | 3.0  | 0.0  |     |     |     | 15.6 | 0.0  | 0.0  |
| Prop In Lane                     | 0.00 |      | 1.00 | 1.00 |      | 0.00 |     |     |     | 0.98 |      | 1.00 |
| Lane Grp Cap(c), veh/h           | 0    | 1808 |      | 388  | 961  | 0    |     |     |     | 383  | 0    |      |
| V/C Ratio(X)                     | 0.00 | 0.53 |      | 0.46 | 0.13 | 0.00 |     |     |     | 0.84 | 0.00 |      |
| Avail Cap(c_a), veh/h            | 0    | 1808 |      | 397  | 961  | 0    |     |     |     | 763  | 0    |      |
| HCM Platoon Ratio                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |     |     |     | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |     |     |     | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh         | 0.0  | 14.6 | 0.0  | 10.6 | 6.3  | 0.0  |     |     |     | 33.9 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh           | 0.0  | 1.1  | 0.0  | 0.8  | 0.3  | 0.0  |     |     |     | 5.1  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |     |     |     | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/lr0.0     | 6.2  | 0.0  | 1.4  | 0.9  | 0.0  |      |     |     |     | 6.9  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh     |      |      |      |      |      |      |     |     |     |      |      |      |
| LnGrp Delay(d), s/veh            | 0.0  | 15.7 | 0.0  | 11.5 | 6.6  | 0.0  |     |     |     | 39.0 | 0.0  | 0.0  |
| LnGrp LOS                        | A    | B    |      | B    | A    | A    |     |     |     | D    | A    |      |
| Approach Vol, veh/h              |      | 952  |      |      | 305  |      |     |     |     | 323  |      |      |
| Approach Delay, s/veh            |      | 15.7 |      |      | 9.4  |      |     |     |     | 39.0 |      |      |
| Approach LOS                     |      | B    |      |      | A    |      |     |     |     | D    |      |      |
| Timer - Assigned Phs             | 1    | 2    |      | 4    |      | 6    |     |     |     |      |      |      |
| Phs Duration (G+Y+Rc), \$1.5     | 52.6 |      |      | 25.8 |      | 64.2 |     |     |     |      |      |      |
| Change Period (Y+Rc), s          | 5.5  | 6.5  |      | 6.5  |      | 6.5  |     |     |     |      |      |      |
| Max Green Setting (Gmax), s      | 26.5 |      |      | 38.5 |      | 38.5 |     |     |     |      |      |      |
| Max Q Clear Time (g_c+l), s      | 18.2 |      |      | 17.6 |      | 5.0  |     |     |     |      |      |      |
| Green Ext Time (p_c), s          | 0.0  | 4.0  |      | 1.7  |      | 0.7  |     |     |     |      |      |      |
| Intersection Summary             |      |      |      |      |      |      |     |     |     |      |      |      |
| HCM 6th Ctrl Delay               |      | 19.3 |      |      |      |      |     |     |     |      |      |      |
| HCM 6th LOS                      |      | B    |      |      |      |      |     |     |     |      |      |      |
| Notes                            |      |      |      |      |      |      |     |     |     |      |      |      |

Unsignalized Delay for [EBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Intersection

Intersection Delay, s/veh 14.4

Intersection LOS B

| Approach                    | EB    | WB    | NB    | SB    |
|-----------------------------|-------|-------|-------|-------|
| Entry Lanes                 | 1     | 1     | 1     | 1     |
| Conflicting Circle Lanes    | 1     | 1     | 1     | 1     |
| Adj Approach Flow, veh/h    | 25    | 318   | 944   | 82    |
| Demand Flow Rate, veh/h     | 26    | 349   | 944   | 88    |
| Vehicles Circulating, veh/h | 394   | 13    | 163   | 320   |
| Vehicles Exiting, veh/h     | 14    | 1094  | 257   | 42    |
| Ped Vol Crossing Leg, #/h   | 0     | 0     | 0     | 0     |
| Ped Cap Adj                 | 1.000 | 1.000 | 1.000 | 1.000 |
| Approach Delay, s/veh       | 4.3   | 5.2   | 18.6  | 4.7   |
| Approach LOS                | A     | A     | C     | A     |

| Lane                  | Left  | Left  | Left  | Left  |
|-----------------------|-------|-------|-------|-------|
| Designated Moves      | LTR   | LTR   | LTR   | LTR   |
| Assumed Moves         | LTR   | LTR   | LTR   | LTR   |
| RT Channelized        |       |       |       |       |
| Lane Util             | 1.000 | 1.000 | 1.000 | 1.000 |
| Follow-Up Headway, s  | 2.609 | 2.609 | 2.609 | 2.609 |
| Critical Headway, s   | 4.976 | 4.976 | 4.976 | 4.976 |
| Entry Flow, veh/h     | 26    | 349   | 944   | 88    |
| Cap Entry Lane, veh/h | 923   | 1362  | 1169  | 996   |
| Entry HV Adj Factor   | 0.962 | 0.910 | 1.000 | 0.932 |
| Flow Entry, veh/h     | 25    | 318   | 944   | 82    |
| Cap Entry, veh/h      | 888   | 1239  | 1169  | 928   |
| V/C Ratio             | 0.028 | 0.256 | 0.808 | 0.088 |
| Control Delay, s/veh  | 4.3   | 5.2   | 18.6  | 4.7   |
| LOS                   | A     | A     | C     | A     |
| 95th %tile Queue, veh | 0     | 1     | 9     | 0     |

HCM 6th TWSC  
15: Fountain Utilities access & Charter Oak Ranch Rd

Buildout Traffic  
PM Peak Hour

Intersection

Int Delay, s/veh 0.2

| Movement                 | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations      |      |      |      |      |      |      |      |      |      |      |      |      |
| Traffic Vol, veh/h       | 0    | 306  | 0    | 1    | 34   | 0    | 0    | 0    | 15   | 0    | 0    | 0    |
| Future Vol, veh/h        | 0    | 772  | 0    | 1    | 221  | 0    | 0    | 0    | 15   | 0    | 0    | 0    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized           | -    | -    | None |
| Storage Length           | -    | -    | -    | 300  | -    | -    | -    | -    | -    | -    | -    | -    |
| Veh in Median Storage, # | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                 | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor         | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   | 95   |
| Heavy Vehicles, %        | 2    | 0    | 2    | 0    | 12   | 2    | 2    | 2    | 0    | 2    | 2    | 2    |
| Mvmt Flow                | 0    | 813  | 0    | 1    | 233  | 0    | 0    | 0    | 16   | 0    | 0    | 0    |

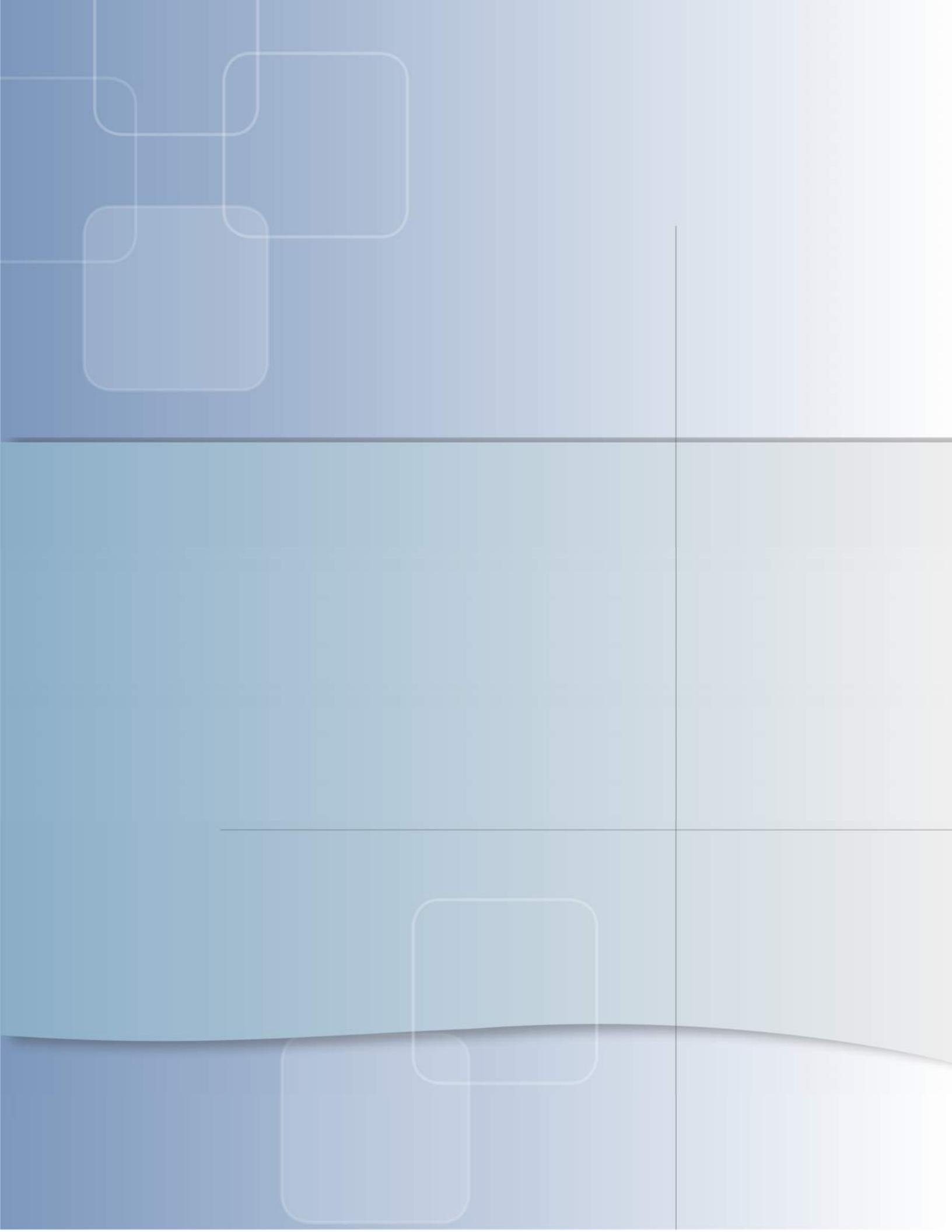
| Major/Minor          | Major1 | Major2 |   | Minor1 |   | Minor2 |       |       |     |       |       |       |
|----------------------|--------|--------|---|--------|---|--------|-------|-------|-----|-------|-------|-------|
| Conflicting Flow All | 233    | 0      | 0 | 813    | 0 | 0      | 1048  | 1048  | 813 | 1056  | 1048  | 233   |
| Stage 1              | -      | -      | - | -      | - | -      | 813   | 813   | -   | 235   | 235   | -     |
| Stage 2              | -      | -      | - | -      | - | -      | 235   | 235   | -   | 821   | 813   | -     |
| Critical Hdwy        | 4.12   | -      | - | 4.1    | - | -      | 7.12  | 6.52  | 6.2 | 7.12  | 6.52  | 6.22  |
| Critical Hdwy Stg 1  | -      | -      | - | -      | - | -      | 6.12  | 5.52  | -   | 6.12  | 5.52  | -     |
| Critical Hdwy Stg 2  | -      | -      | - | -      | - | -      | 6.12  | 5.52  | -   | 6.12  | 5.52  | -     |
| Follow-up Hdwy       | 2.218  | -      | - | 2.2    | - | -      | 3.518 | 4.018 | 3.3 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver   | 1335   | -      | - | 823    | - | -      | 206   | 228   | 382 | 203   | 228   | 806   |
| Stage 1              | -      | -      | - | -      | - | -      | 372   | 392   | -   | 768   | 710   | -     |
| Stage 2              | -      | -      | - | -      | - | -      | 768   | 710   | -   | 369   | 392   | -     |
| Platoon blocked, %   | -      | -      | - | -      | - | -      | -     | -     | -   | -     | -     | -     |
| Mov Cap-1 Maneuver   | 1335   | -      | - | 823    | - | -      | 206   | 228   | 382 | 194   | 228   | 806   |
| Mov Cap-2 Maneuver   | -      | -      | - | -      | - | -      | 206   | 228   | -   | 194   | 228   | -     |
| Stage 1              | -      | -      | - | -      | - | -      | 372   | 392   | -   | 768   | 709   | -     |
| Stage 2              | -      | -      | - | -      | - | -      | 767   | 709   | -   | 354   | 392   | -     |

| Approach              | EB    | WB   |     | NB   |       | SB  |     |       |
|-----------------------|-------|------|-----|------|-------|-----|-----|-------|
| HCM Control Delay, s  | 0     | 0    |     | 14.8 |       | 0   |     |       |
| HCM LOS               |       |      |     | B    |       | A   |     |       |
| <hr/>                 |       |      |     |      |       |     |     |       |
| Minor Lane/Major Mvmt | NBLn1 | EBL  | EBT | EBR  | WBL   | WBT | WBR | SBLn1 |
| Capacity (veh/h)      | 382   | 1335 | -   | -    | 823   | -   | -   | -     |
| HCM Lane V/C Ratio    | 0.041 | -    | -   | -    | 0.001 | -   | -   | -     |
| HCM Control Delay (s) | 14.8  | 0    | -   | -    | 9.4   | -   | -   | 0     |
| HCM Lane LOS          | B     | A    | -   | -    | A     | -   | -   | A     |
| HCM 95th %tile Q(veh) | 0.1   | 0    | -   | -    | 0     | -   | -   | -     |

| Intersection             |        |        |        |      |       |      |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh         | 7.1    |        |        |      |       |      |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR  |
| Lane Configurations      | ↑      |        | ↑      | ↑    | ↑     | ↑    |
| Traffic Vol, veh/h       | 5      | 0      | 29     | 5    | 0     | 301  |
| Future Vol, veh/h        | 5      | 0      | 120    | 5    | 0     | 576  |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop |
| RT Channelized           | -      | None   | -      | None | -     | Free |
| Storage Length           | -      | -      | 350    | -    | 0     | 0    |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -    |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -    |
| Peak Hour Factor         | 95     | 95     | 95     | 95   | 95    | 95   |
| Heavy Vehicles, %        | 0      | 2      | 33     | 6    | 2     | 17   |
| Mvmt Flow                | 5      | 0      | 126    | 5    | 0     | 606  |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |      |
| Conflicting Flow All     | 0      | 0      | 5      | 0    | 262   | -    |
| Stage 1                  | -      | -      | -      | -    | 5     | -    |
| Stage 2                  | -      | -      | -      | -    | 257   | -    |
| Critical Hdwy            | -      | -      | 4.43   | -    | 6.42  | -    |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -    |
| Follow-up Hdwy           | -      | -      | 2.497  | -    | 3.518 | -    |
| Pot Cap-1 Maneuver       | -      | -      | 1435   | -    | 727   | 0    |
| Stage 1                  | -      | -      | -      | -    | 1018  | 0    |
| Stage 2                  | -      | -      | -      | -    | 786   | 0    |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -    |
| Mov Cap-1 Maneuver       | -      | -      | 1435   | -    | 663   | -    |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 663   | -    |
| Stage 1                  | -      | -      | -      | -    | 1018  | -    |
| Stage 2                  | -      | -      | -      | -    | 717   | -    |
| Approach                 | EB     | WB     | NB     |      |       |      |
| HCM Control Delay, s     | 0      | 7.4    | 0      |      |       |      |
| HCM LOS                  |        |        | A      |      |       |      |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT  |
| Capacity (veh/h)         | -      | -      | -      | -    | 1435  | -    |
| HCM Lane V/C Ratio       | -      | -      | -      | -    | 0.088 | -    |
| HCM Control Delay (s)    | 0      | 0      | -      | -    | 7.8   | -    |
| HCM Lane LOS             | A      | A      | -      | -    | A     | -    |
| HCM 95th %tile Q(veh)    | -      | -      | -      | -    | 0.3   | -    |

| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 3.7    |        |        |      |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT  | NBL   | NBR   |
| Lane Configurations      | ↑      | ↗      | ↖      | ↑    | ↖     | ↗     |
| Traffic Vol, veh/h       | 306    | 0      | 0      | 34   | 0     | 0     |
| Future Vol, veh/h        | 457    | 124    | 69     | 111  | 14    | 188   |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | 0      | 250    | -    | 150   | 0     |
| Veh in Median Storage, # | 0      | -      | -      | 0    | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0    | 0     | -     |
| Peak Hour Factor         | 95     | 95     | 95     | 95   | 95    | 95    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 481    | 131    | 73     | 117  | 15    | 198   |
| Major/Minor              | Major1 | Major2 | Minor1 |      |       |       |
| Conflicting Flow All     | 0      | 0      | 612    | 0    | 744   | 481   |
| Stage 1                  | -      | -      | -      | -    | 481   | -     |
| Stage 2                  | -      | -      | -      | -    | 263   | -     |
| Critical Hdwy            | -      | -      | 4.12   | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 967    | -    | 382   | 585   |
| Stage 1                  | -      | -      | -      | -    | 622   | -     |
| Stage 2                  | -      | -      | -      | -    | 781   | -     |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 967    | -    | 353   | 585   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 353   | -     |
| Stage 1                  | -      | -      | -      | -    | 622   | -     |
| Stage 2                  | -      | -      | -      | -    | 722   | -     |
| Approach                 | EB     | WB     | NB     |      |       |       |
| HCM Control Delay, s     | 0      | 3.5    | 14.4   |      |       |       |
| HCM LOS                  |        |        | B      |      |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | NBLn2  | EBT    | EBR  | WBL   | WBT   |
| Capacity (veh/h)         | 353    | 585    | -      | -    | 967   | -     |
| HCM Lane V/C Ratio       | 0.042  | 0.338  | -      | -    | 0.075 | -     |
| HCM Control Delay (s)    | 15.6   | 14.3   | -      | -    | 9     | -     |
| HCM Lane LOS             | C      | B      | -      | -    | A     | -     |
| HCM 95th %tile Q(veh)    | 0.1    | 1.5    | -      | -    | 0.2   | -     |

| Intersection             |        |        |        |       |       |       |
|--------------------------|--------|--------|--------|-------|-------|-------|
| Int Delay, s/veh         | 2.5    |        |        |       |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT   | NBL   | NBR   |
| Lane Configurations      | ↑      | ↑      | ↑      | ↑     | Y     | Y     |
| Traffic Vol, veh/h       | 306    | 0      | 0      | 34    | 0     | 0     |
| Future Vol, veh/h        | 645    | 0      | 41     | 180   | 0     | 127   |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0     | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free  | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None  | -     | None  |
| Storage Length           | -      | -      | 300    | -     | 0     | -     |
| Veh in Median Storage, # | 0      | -      | -      | 0     | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0     | 0     | -     |
| Peak Hour Factor         | 95     | 95     | 95     | 95    | 95    | 95    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2     | 2     | 2     |
| Mvmt Flow                | 679    | 0      | 43     | 189   | 0     | 134   |
| Major/Minor              | Major1 | Major2 | Minor1 |       |       |       |
| Conflicting Flow All     | 0      | 0      | 679    | 0     | 954   | 679   |
| Stage 1                  | -      | -      | -      | -     | 679   | -     |
| Stage 2                  | -      | -      | -      | -     | 275   | -     |
| Critical Hdwy            | -      | -      | 4.12   | -     | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -     | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -     | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -     | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 913    | -     | 287   | 452   |
| Stage 1                  | -      | -      | -      | -     | 504   | -     |
| Stage 2                  | -      | -      | -      | -     | 771   | -     |
| Platoon blocked, %       | -      | -      | -      | -     | -     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 913    | -     | 274   | 452   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -     | 274   | -     |
| Stage 1                  | -      | -      | -      | -     | 504   | -     |
| Stage 2                  | -      | -      | -      | -     | 735   | -     |
| Approach                 | EB     | WB     | NB     |       |       |       |
| HCM Control Delay, s     | 0      | 1.7    | 16.3   |       |       |       |
| HCM LOS                  |        |        | C      |       |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | EBT    | EBR    | WBL   | WBT   |       |
| Capacity (veh/h)         | 452    | -      | -      | 913   | -     |       |
| HCM Lane V/C Ratio       | 0.296  | -      | -      | 0.047 | -     |       |
| HCM Control Delay (s)    | 16.3   | -      | -      | 9.1   | -     |       |
| HCM Lane LOS             | C      | -      | -      | A     | -     |       |
| HCM 95th %tile Q(veh)    | 1.2    | -      | -      | 0.1   | -     |       |



# V1\_traffic Study.pdf Markup Summary

### Callout (2)

enhancing (120);  
n-Warehouse (121)  
capping Plaza (40-120 ksf) (821)

The development of the Sketch Plan, floor area ratios (FAR) were used to calculate an expected building square footage when the acreage square footage was used in the sketch plan.

Percentages were obtained from the industry index.

This site is being developed at 100% of the maximum allowed by the zoning code. This has been applied to the portion of the site where the proposed action of Z-1 has been applied to the portion of the site assigned f

Location of the proposed retail land use. It is expected to primarily a retail park as well as those entering/exiting Fort Carson. As such a TTM has been assessed for the renovated retail areas. A

**Subject:** Callout  
**Page Label:** 11  
**Author:** CDurham  
**Date:** 10/27/2023 9:13:07 AM  
**Status:**  
**Color:** █  
**Layer:**  
**Space:**

Include where these percentages were obtained for the reduction (Industry standard, manual, code, etc).

|                                   |       |
|-----------------------------------|-------|
| house                             | 20.40 |
| Iaza (40-150m) - Supermarket - No | 30.90 |
| Park (Light/Heavy Industrial)     | 227%  |
| Ing (Commercial Services)         | 131   |
| Iaza (Commercial)                 | 10.9  |

**Subject:** Callout  
**Page Label:** 14  
**Author:** CDurham  
**Date:** 10/27/2023 9:38:04 AM  
**Status:**  
**Color:** █  
**Layer:**  
**Space:**

Ensure building SF by land type is the same between TIS & Drainage Report

Text Box (2)

## *Multimodal Mobility Analysis*

**Subject:** Text Box  
**Page Label:** 33  
**Author:** CDurham  
**Date:** 10/27/2023 9:11:25 AM  
**Status:**  
**Color:** █  
**Layer:**  
**Space:**

Include paragraph on pedestrian and bike facilities and address safety/accident analysis.

traffic volumes, connectivity, and

**Subject:** Text Box  
**Page Label:** 30  
**Author:** CDurham  
**Date:** 10/30/2023 9:21:10 AM  
**Status:**  
**Color:** █  
**Layer:**  
**Space:**

Note that Auxiliary lanes & queueing lengths will be looked at and identified with subsequent plan submittals (next levels).