COLORADO
Department of Transportation

## REVISED FINAL EXISTING CONDITIONS REPORT

US 6C Clifton Transportation Study


# US 6C CLIFTON Transportation Study 

## Revised Final Existing Conditions Report

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## Submitted to



## Submitted by

## Den <br> Tir

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## List of Acronyms and Abbreviations

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AADT - Average Annual Daily Traffic
ACP - Access Control Plan
CBC - Concrete box culvert
CDOT - Colorado Department of Transportation
CIP - Capital Investment Program
EB - eastbound
GIS - Geographic Information Systems
GVMPO - Grand Valley Metropolitan Planning Organization
GVT - Grand Valley Transit
HCM - Highway Capacity Manual
I-70 - Interstate 70
I-70B - Interstate 70 Business Loop
LOS - Level of Service
MPH - miles per hour
PEL - Planning and Environmental Linkages
RCP - Reinforced concrete pipe
SH - State Highway
TIP - Transportation Improvement Program
UPRR - Union Pacific Railroad
US - United States
US 6C - United States Highway 6C
vpd - vehicles per day
WB - westbound
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## INTRODUCTION

## US 6C Clifton Transportation Study

The Colorado Department of Transportation (CDOT)

This report documents the current and anticipated future conditions of the study area transportation system. The information presented in this report will be the basis for developing and evaluating possible transportation improvements in the study area. initiated the US 6C Clifton Transportation Study to provide an understanding of the existing conditions along the United States Highway 6C (US 6C) corridor through Clifton from Interstate 70 Business Loop (I-70B) to 33 Road. The study will evaluate the existing and future operating conditions and features of the corridor with the goal of identifying anticipated problem areas and developing and screening a reasonable range of potential improvements to improve operations and safety of the corridor for all modes of transportation, including non-motorized travel.

This transportation study will be conducted using the Planning and Environmental Linkages (PEL) approach. PEL is a study approach that is used to identify transportation issues and environmental concerns, which can be applied to make planning decisions and for planning analysis. PEL studies link planning to environmental issues and result in useful information that may ultimately be used to prepare a National Environmental Policy Act study and final design. The objective of this study is to work with stakeholders to analyze transportation issues and explore a range of short- and long-term actions to improve operational performance and safety and potentially reduce congestion along the US 6C corridor.

This Existing Conditions Report documents the current and anticipated future transportation conditions along the corridor, developed from readily available data and a windshield survey. The information presented in this report will be used in the development and analysis of improvement alternatives, which will be documented in a subsequent report.

## Study Area

The traffic study area and the environmental resource review study area are illustrated in Figure 1. The traffic study roadways include US 6C from I-70B to approximately $331 / 2$ Road, F Road from 32 Road to $\mathrm{I}-70 \mathrm{~B}$, and $\mathrm{I}-70 \mathrm{~B}$ from west of Old 32 Road to the I-70 interchange. US 6C, F Road, and I-70B within the study area lie within unincorporated Mesa County.

The environmental study area is focused around the area of most likely physical impacts of corridor transportation improvements. To take into account the potential for indirect or secondary effects to community or environmental resources as a result of the recommended improvements, the area was extended to the back property line of area parcels. The environmental study area includes the area generally bounded by 32 Road to the west, $I-70$ to the north, 33 Road to the east, and $\mathrm{E} 1 / 2$ Road to the south. The evaluation of environmental conditions is documented in the Environmental Scan Report.


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## Surrounding Land Use

The study area is located in the community of Clifton, within unincorporated Mesa County, with Grand Junction to the west and Palisade to the east. As described in the Clifton-Fruitvale Community Plan, the Clifton community has been transitioning from rural to urban for several decades. Over time, the area has developed under a wide variety of land development and infrastructure plans, resulting in a mixed pattern of urban, suburban, and rural environments.

## Existing Land Use

The central Clifton neighborhood is the historical center of the Clifton area, also known as "downtown" Clifton. Located south of I-70 and north of the Union Pacific Railroad (UPRR) tracks, central Clifton is bounded on the west by I-70B and 33 Road on the east. The study area, surrounding the central Clifton neighborhood, is characterized by a variety of land uses including residential, commercial, industrial, public, and agricultural or undeveloped lands.

West of I-7OB along F Road, land uses consist primarily of single-family residential with health clinics, automotive services, and a mobile home community on the north side of the corridor. South of F Road is a bank, restaurant, convenience store/gas station, and automotive services.


US 6C west of I-70B Clifton - looking east


US 6C in Clifton - north side looking west

Along US 6C immediately east of I-70B, land uses include retail and commercial businesses located in the Peach Tree Shopping Center south of the corridor, with multiple banks, restaurants, and convenience store/gas stations. An annex of the Mesa County Clerk and Recorders Office is also located at the shopping center. Along the north side of US 6C east of I-7OB is a car wash, automotive service center, and a storage unit facility.

Between $1^{\text {st }}$ Street and $5^{\text {th }}$ Street, the land use along US 6C consists of a mixture of public, retail, commercial, and residential land uses. North of US 6C, land uses include the US Post Office, Clifton Fire Station, convenience store/gas station, an industrial equipment shop and the Clifton Plaza which includes a restaurant and small businesses. North of these properties along US 6C, the land uses are primarily single-family homes.

Along the south side of US 6C, land uses include a church, liquor store, and small businesses. South of these properties along

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US 6C, the land uses are primarily single-family homes. Along $2^{\text {nd }}$ Street south of US 6C, there is a small commercial area with a bar and several unoccupied stores, along with single-family residences. The Clifton Community Hall, owned by Mesa County and used for a variety of community and civic events, is located on $2^{\text {nd }}$ Street at Front Street.

Clifton Elementary School is located on the north side of US 6C at $5^{\text {th }}$ Street. Along the south side of US 6C is another small retail center. East of the school and the retail center is approximately a $1 / 4-$ mile stretch of mostly agricultural and undeveloped land, zoned for residential and commercial development, north and south of US 6C. East of 33 Road, US 6C is bounded primarily by agricultural and undeveloped land with a few low density single-family homes. These properties are zoned for residential and mixeduse development.

Along the east side of I-70B north of US 6C, land uses consist of primarily single-family neighborhoods with undeveloped land just south of the I-70 interchange to the Government Highline Canal. Land uses along the west side of I-70B include a campground, church, the Budweiser Distribution Center, and undeveloped land, zoned for commercial development.

of the Coronảdo Rtazabare /singlesfamily homes.

South of US 6C, I-70B is lined with commercial and retail land uses. East of the I-70B corridor is the Peach Tree Shopping Center. The area accessed from I-70B includes retail stores, restaurants, banks, and convenience stores/gas stations. The Clifton Transfer Center for Grand Valley Transit (GVT) is located south of the 32 Road intersection. Along the west side of I-70B is a hotel, an automotive dealership, restaurants, a pharmacy, and the Coronado Plaza southwest of Old 32 Road. The Coronado Plaza development includes restaurants, retail stores, and a City Market grocery store. West

33 Road within the study area is lined with single-family homes, agricultural land, or undeveloped land uses from $\mathrm{F}^{5} / 8$ Road on the north to $\mathrm{E}^{3 / 4}$ Road. North of $\mathrm{F} 5 / 8$ Road, land uses consist primarily of agricultural and undeveloped land.

The UPRR runs along the south side of Front Street from the 32 Road overpass to 33 Road. Single-family homes line much of Front Street across from the railroad tracks with an undeveloped parcel east of 32 Road, an automotive salvage yard west of $2^{\text {nd }}$ Street, Clifton Community Hall east of $2^{\text {nd }}$ Street, and a relatively large undeveloped parcel west of 33 Road.


Front Street at $2^{\text {nd }}$ Street - looking east

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## Future Land Use

Future land uses are depicted in Figure 2. The land use represented on this map reflects Mesa County's land use vision for the study area, as shown in the Mesa County Comprehensive Land Use Plan. Commercial development is planned along the I-70B corridor through the study area. Mixed use development is planned west of the Budweiser Distribution Center and southeast of the I-70/I-70B interchange. The area surrounding the Peach Tree Shopping Center and the properties adjacent to the US 6C corridor through downtown Clifton to $5^{\text {th }}$ Street are also planned for mixed use development. Residential land use is planned to be scattered throughout the study area and a park is shown within the undeveloped parcel northwest of Front Street and 33 Road.

Socioeconomic data from the Grand Valley Metropolitan Planning Organization (GVMPO) 2010 and 2040 regional travel demand models were compiled for the traffic analysis zones partially or fully located within the study area boundaries. The household and employment totals for year 2010 and forecasted year 2040 are shown in Table 1. As shown, employment in the area is forecasted to increase by over 2,200 jobs by year 2040, an increase of $162 \%$ over existing year 2010 totals. This equates to an annual increase of $3.3 \%$. Population in the area is forecasted to increase by over 1,500 households, an increase of $118 \%$ over existing year 2010 totals. This equates to an annual increase of $2.6 \%$.

Table 1: Travel Demand Forecasting Land Use Growth

| Year | LAND UsE |  |
| :--- | :---: | :---: |
|  | Employment | Households |
| 2010 | 1,390 | 1,311 |
| 2040 | 3,646 | 2,864 |
| Absolute Growth | $+2,256$ | $+1,553$ |
| Percent Growth | $162 \%$ | $118 \%$ |

Source: GVMPO 2010 and 2040 regional travel demand models

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## Regional Planning Context

The US 6C corridor within the study area serves as an important east-west travel route connecting Grand Junction and Palisade, as well as surrounding areas of Mesa County. The roadway is a vital part of the regional transportation system as a whole. The corridor and the surrounding Clifton area has been included in past studies with substantial transportation components. Relevant past planning studies were reviewed to identify issues and recommended improvements to the transportation system within or in close proximity to the US 6C Clifton Transportation Study area. The reviewed planning studies are:

- 2003 Clifton Transportation Study (2003)
- Clifton-Fruitvale Community Plan (October 19, 2006 - Amended July 14, 2011)
- Clifton Pedestrian Circulation Study (October 30, 2006)
- Old Town Clifton Plan (November 2007)
- United States Highway 6 - Clifton Access Control Plan (November 2008)
- Grand Valley Circulation Plan (2010)

■ GVMPO Transportation Improvement Program (TIP) 2011-2017 (Amended August 18, 2014)

- Grand Valley 2040 Regional Transportation Plan (in process - draft December 2014)

Graphics illustrating relevant information from these plans and studies are included in Appendix A.

## 2003 Clifton Transportation Study

The 2003 Clifton Transportation Study was completed to identify projects to be implemented through the Mesa County Capital Investment Program (CIP). The study recommended the widening of US 6C through downtown Clifton to five lanes, using a combination of federal, state, and local funding. The study also recommended adding a raised median along F Road between 32 Road and I-70B, using local funding. Neither of these recommendations has been implemented.

## Clifton-Fruitvale Community Plan

The Clifton-Fruitvale Community Plan was adopted by the Mesa County Planning Commission and the City of Grand Junction Planning Commission to provide specific management direction in the areas of public safety, human services, land use and zoning, transportation, utilities, historical structures, code enforcement, economy, and natural features to prioritize implementation strategies and actions for the Clifton-Fruitvale neighborhoods. The US 6C Clifton Transportation Study area is within the Central Clifton neighborhood as depicted in the community plan.

The School, Parks and Trails section of the plan identified issues regarding unsafe walking conditions for Clifton Elementary School with obstacles (open irrigation ditch, no road shoulder, weeds) forcing students to walk very close to traffic. The Transportation section identified the following key issues relevant to the Central Clifton neighborhood:

■ Road infrastructure is lacking basic safety features - sidewalks, curb, and gutters
■ Inadequate and unsafe walking routes to schools, bus stops, businesses

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- Need sidewalks, uncongested streets, street lights, and traffic signals
- Wheelchairs need sidewalks detached from the curb
- Limited room to expand F Road (US 6C) without urban renewal
- Consider using Front Street as a bypass
- GVT ridership is high and growing
- Lack of bike paths
- Want streetscape improvements

The appendix of the Clifton-Fruitvale Community Plan includes graphics to provide visual ideas and demonstrate how some of the improvements could look based on citizen input, safety concerns, and design standards. The sketches from the appendix of the Clifton-Fruitvale Community Plan are included in Appendix A.

## Clifton Pedestrian Circulation Study

The Clifton Pedestrian Circulation Study was conducted for Mesa County concurrently with the CliftonFruitvale Community Plan process. The study area was about ten square miles and encompassed the more focused area of this study. The primary goal of the Clifton Pedestrian Circulation Study was to assist local decision makers with a prioritized list of pedestrian-related facility improvements to be implemented through the Mesa County and Grand Junction CIPs.

The study included a public process with several public open houses to receive public comment on pedestrian-related facilities vital to the community. An evaluation of alternatives for projects was used to rank projects in order of highest need and importance to the Clifton area, and fiscally-constrained projects were identified for inclusion in the CIP. The following recommended high-priority projects fall within the US 6C Clifton Transportation Study area:

- New sidewalk along both sides of US 6C from I-70B to 33 Road
- New sidewalk along the east side of $321 / 2$ Road (1 $1^{\text {st }}$ Street) from US 6C to E½ Road
- New sidewalk along the south side of I-70B between the Clifton Transfer Station and 32 Road (completed)
- Bike facility along US 6C from I-70B to west of 33 Road

Graphics from the study report illustrating the prioritized project recommendations are included in Appendix A.

## Old Town Clifton Plan

The Old Town Clifton Plan was conducted by Mesa County to study the prospects of redevelopment within the downtown Clifton area, including both sides of US 6C from I-70B to 33 Road and from Front Street north to the Price Ditch. The study focused on economic and transportation issues with public meetings and workshops.

Regarding the transportation issues within the area, it was noted that Clifton residents do not want US 6 C to be widened from the current three-lane configuration to a five-lane facility. Planners recommended improvements to Front Street with connections to US 6C and I-70B so that Front Street could be used as a bypass for regional commuter traffic between Grand Junction and Palisade. The Old Town Clifton Plan also noted the desire for improvements along US 6C, such as curb and gutter, sidewalks, and landscape, to encourage redevelopment along the corridor.

## United States Highway 6 (US 6) - Clifton Access Control Plan

The US 6 - Clifton Access Control Plan (ACP) was completed in 2008 for CDOT and Mesa County to provide a binding document guiding the agencies decisions regarding the future access conditions of US 6C through downtown Clifton. Traffic volume forecasts showed issues with increased delay, higher levels of congestion, and an increase in the severity and number of accidents. The purpose of the ACP was to identify the location, type, and basic design elements of access points along the corridor to provide reasonable access to adjacent properties while maintaining safe and efficient traffic flow on US 6 6. The ACP process included three public open houses as well as individual property owner meetings to gain input and inform the Clifton property owners and residents of the plan recommendations.

Based on future operational analysis results, the ACP assumed a five-lane cross-section for the US 6C corridor between I-70B and 33 Road with a raised median to restrict turning movements at some intersections. Key highlights of the ACP include:

- Emergency traffic signal at Clifton Fire Station (completed)
- Traffic signal at $1^{\text {st }}$ Street, when warranted (completed)
- Traffic signal at $5^{\text {th }}$ Street, when warranted
- Interim right-in, right-out restrictions with ultimate closure at $2^{\text {nd }}$ Street, $3^{\text {rd }}$ Street, and $4^{\text {th }}$ Street
- Closure of most individual property accesses
- Closure of Smallwood Lane and all alley accesses
- Conversion of Lois Street and Holland Street to $3 / 4$-movement intersections

The closures of many individual property driveways and local street access to US 6C were consistent with the redevelopment expectations of Mesa County and plans for new alternate/shared access from new roadway connections. Graphics illustrating the recommendations from the ACP are included in

## Appendix A.

## Grand Valley Circulation Plan

The Grand Valley Circulation Plan is a document adopted by the City of Grand Junction City Council and the Mesa County Board of County Commissioners that depicts existing and potential traffic circulation and road locations for the Grand Valley. It also depicts the road functional classification standard for the City and County based on traffic volumes and needs.

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The current amendment (adopted in 2010) shows the following functional classifications for the study area roadways:

■ US 6C east of I-70B - Minor Arterial

- I-70B - Principal Arterial
- $1^{\text {st }}$ Street - Minor Collector (with connection to $32 \frac{1}{2}$ Road to the south)
- 33 Road - Major Collector

Functional classifications for $2^{\text {nd }}$ Street and Front Street are not depicted in the circulation plan. The plan also shows a "Village Center" at the location of the Peach Tree Shopping Center.

## GVMPO TIP 2011-2017

The GVMPO TIP is a six-year capital improvement program for the urbanized area of the Grand Valley. It is developed by the Grand Valley Regional Transportation Committee, acting as the GVMPO. The TIP contains all federally funded transportation projects in the urbanized area initiated by Mesa County, Grand Junction, Palisade, and Fruita or CDOT.

This corridor transportation study for US 6C through Clifton is included in the TIP. The TIP also includes bridge maintenance along I-70B within the study area and asphalt overlay for I-70 along the northern edge of the study area. No other projects within the study area are included in the 2012-2017 TIP (Amendment 20).

## Grand Valley 2040 Regional Transportation Plan

The Grand Valley 2040 Regional Transportation Plan (RTP) is the most recent update to the region's overall vision for future transportation infrastructure and investment. The plan report was finalized and adopted by the Grand Valley Regional Transportation Committee in December, 2014. An extensive public outreach process took place over the summer of 2014. The 2040 RTP looks out 25 years into the future and identifies the types of investments and strategies needed to address transportation mobility needs in the region. The planning process examines current and future anticipated transportation issues and needs for travelers, workers, visitors, and residents of the region, which includes all of the Grand Valley, including the communities of Clifton, Collbran, DeBeque, Fruita, Gateway, Glade Park, Grand Junction, Loma, Mesa, Mack, Palisade, Whitewater, and the rest of Mesa County. The RTP includes a list of critical regional priority projects anticipated to be implemented by 2040.

The vision identified in the 2040 RTP for the US 6C corridor between I-70B and 33 Road is primarily to increase mobility as well as to improve safety and maintain system quality. The plan recognizes that this corridor PEL study will determine the actions needed to improve safety and capacity. Capacity improvements along US 6C from I-70B to 33 Road are included in the 2040 fiscally constrained plan. Improvement strategies shown for the corridor include:

- Improve hotspots
- Construct/improve intersections
- Add turn lanes


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- Preserve right-of-way
- Expand transit services
- Consolidate and manage access and develop access management plans
- Provide bicycle/pedestrian facilities
- Add surface treatment/overlays
- Construct improvements recommended in the PEL study
- Add/improve shoulders

East of 33 Road, the 2040 RTP identifies no major improvements for the US 6C corridor to Palisade, but includes strategies similar to those identified for the study corridor through Clifton. The 2040 RTP identifies no major improvements for the F Road corridor west of I-70B.

The plan recognizes that I-70B should continue to be heavily impacted by energy development activity, including heavy truck traffic. Improvement strategies shown for the I-70B corridor include:

- Reconstruct roadways
- Consolidate and limit access and develop access management plans
- Synchronize/interconnect traffic signals
- Add signage
- Construct intersection/interchange improvements
- Add medians
- Provide public transportation improvements
- Provide bicycle/pedestrian facilities
- Preserve right-of-way
- Improve landscaping
- Develop an access management plan for the corridor


## Corridor Conditions

## This section documents the

 roadway characteristics of the existing transportation corridors in the study area. This information will be used for the development and analysis of alternatives.This report summarizes data collected as part of this study effort and data already available from CDOT, Mesa County, and other agencies, to describe the physical condition of the transportation corridors in the study area. The US 6C and I-70B highways provide both local and regional mobility within the study area.

## US 6C

US 6C is a section of the US 6 highway beginning at the I-70B intersection on the west. The US 6C corridor travels through downtown Clifton and crosses over the UPRR tracks before turning to the northeast and traveling through Palisade and ending at an interchange with I-70 northeast of Palisade at Exit 44. West of the I-70B intersection, the US 6 highway follows the I-70B alignment to the southwest toward Grand Junction.

This section of US 6C is an urban corridor serving as the main street through the unincorporated neighborhood of Clifton. CDOT defines the functional classification of the US 6C corridor through the study area as a Minor Arterial. For access control, CDOT classifies the corridor as a Non-Rural Arterial. The US 6C corridor serves as a multimodal facility, providing commuter access, and access to the US Post Office, Clifton Fire Station, Clifton Elementary School, and other local businesses.


US 6C in Clifton - looking west

From I-70B to $1^{\text {st }}$ Street ( $32 \frac{1}{2}$ Road), US 6C is a four lane section with left turn lanes and little or no median. East of $1^{\text {st }}$ Street to 33 Road, US 6C consists of two through lanes and a striped two-way leftturn lane. There are a high number of access points along US 6C from $1^{\text {st }}$ Street to $5^{\text {th }}$ Street, including streets, alleyways, and unrestricted property driveways.

East of 33 Road to $331 / 2$ Road east of the UPRR overpass, US $6 C$ is a two-lane facility with no median and eight-foot wide shoulders. East of the study area, US 6C is generally a two-lane facility with no median and little or no shoulders. The speed limit along US 6C is primarily 30 miles per hour (MPH) within the study area, from I-70B to 33 Road. West of the I-70B and US 6C intersection, F Road consists of a fourlane cross-section with a striped two-way left-turn lane. West of I-70B, the speed limit increases to 40 MPH along F Road and east of 33 Road it increases to 40 MPH and eventually increases to 50 MPH east of $331 / 2$ Road.

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## Surrounding Roadways

## I-70B

CDOT defines the functional classification of I-70B as a Principal Arterial - Other. For access control, CDOT classifies the corridor as an Expressway, Major Bypass. The roadway is generally an east-west facility providing interstate business access to Grand Junction, extending from I-70 Exit 26, west of Grand Junction, and traveling south of downtown Grand Junction and through the west side of the study area before reconnecting with I-70 at Exit 37, north of the Clifton community. North of the US 6C intersection, I-70B is a divided four-lane highway with a depressed median, relatively wide shoulders, and a 55 MPH speed limit. South of US 6C, I-70B is a divided fourlane highway with a raised median, narrow or nonexistent shoulders, and a 45 MPH speed limit.


I-70B at US 6C - looking south

## 1 st Street

$1^{\text {st }}$ Street is a north-south local street between US 6C and Front Street. North of US 6C and south of Front Street the roadway is known as $321 / 2$ Road. $1^{\text {st }}$ Street just south of US 6C is a relatively new street with one southbound travel lane, two northbound
 travel lanes, a raised median and sidewalks. The road is currently used only to access Peach Tree Shopping Center with no direct access to the Clifton residential community south of US 6C. The relatively new section of $1^{\text {st }}$ Street ends approximately 500 feet south of US 6C. Signage and physical barriers prohibit access on $1^{\text {st }}$ Street to the south and to the east along the Grand Avenue alignment. $1^{\text {st }}$ Street south of the barriers is a narrow gravel roadway that intersects with Front Street on the south end, serving as a local access for adjacent properties and as an alley for businesses along $2^{\text {nd }}$ Street.
$1^{\text {st }}$ Street at US 6C - looking south

## $2^{\text {nd }}$ Street

$2^{\text {nd }}$ Street is a north-south local street connecting US 6C and Front Street. The roadway is a two-lane facility with no shoulders or sidewalks. $2^{\text {nd }}$ Street serves businesses, residences, and Clifton Community Hall, as well as local and commuter traffic traveling across the UPRR crossing at $32 \frac{1}{2}$ Road. $2^{\text {nd }}$ Street is classified as a local street by Mesa County.

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## Front Street

Front Street is an east-west two-lane Mesa County roadway with no median or shoulders. The roadway begins east of the 32 Road overpass over the UPRR tracks and travels adjacent to the railroad tracks until the roadway ends at an unsignalized intersection with 33 Road. Front Street is classified as a local facility by Mesa County throughout the study area except between $1^{\text {st }}$ Street and $2^{\text {nd }}$ Street, where it is considered a collector street. This portion of Front Street serves as a connection between $2^{\text {nd }}$ Street and the at-grade railroad crossing at $321 / 2$ Road.

## 33 Road



Front Street west of $1^{\text {st }}$ Street - looking east

33 Road is a north-south two-lane Mesa County roadway extending from the north side of the I-70 freeway, through the project study area, ending 1.5 miles south of F Road at $\mathrm{D} 1 / 2$ Road. 33 Road general has dirt shoulders and no median through the study area. Private accesses extend along much of the roadway and there is informal parking on the dirt shoulders within the study area. The speed limit along 33 Road is 35 MPH. The roadway is classified as a collector facility by Mesa County.

## Roadway Features

Field visits of the study corridor were conducted in November 2014 to document the conditions of existing relevant roadway features, such as median treatments, curb and gutter, intersection control and land configurations, lighting, and observed design deficiencies. The existing roadway features collected along the corridor are illustrated in Figures 3 and 4.

The right-of-way along US 6C is fairly consistent with approximately 60 -foot width east of $1^{\text {st }}$ Street, widening out to about 100 feet at the 33 Road intersection. Through downtown Clifton, there is attached sidewalk provided on the north side of the roadway between I-70B and 1st Street, providing access to the park-n-ride lots at the intersection. Sidewalk is also provided on the south side of the roadway between the pedestrian signal at Clifton Elementary School and $5^{\text {th }}$ Street, providing a short section of pedestrian access between the school and the south residential area. Most of the US 6C corridor lacks sidewalk through the study area. The existing multimodal facility conditions are described in the Corridor Multimodal Mobility section later in this report.

There are six signalized intersections along the US 6C and I-70B corridors within the study area, all operated by CDOT. The I-70B intersections with US 6C, Peach Tree Shopping Center Access, 32 Road, and Old 32 Road have 120-second cycle lengths and are coordinated by time-of-day signal coordination. The US 6C and $1^{\text {st }}$ Street signal operates on a 60 -second cycle length and is coordinated with the signal at I-70B. The US 6C and 33 Road signal operates on a 60 -second cycle length with no coordination with other signals in the area. On the west end of the study area, the F Road and 32 Road signalized intersection is operated by Mesa County and is not coordinated with the other signals in the study area.

Figure 3: Existing Roadway Conditions - Entire Study Area


Source: DEA field observations, 2014

Figure 4: Existing Roadway Conditions - US 6C Focused Area


Source: DEA field observations, 2014

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The unsignalized intersections and accesses along the US 6C corridor through downtown Clifton operate with no movement restrictions. The following is a list of the public roadway accesses along US 6C from I-70B to 33 Road:

■ I-70B

- $1^{\text {st }}$ Street ( $321 / 2$ Road)
- $2^{\text {nd }}$ Street
- Smallwood Lane
- $3^{\text {rd }}$ Street
- Lois Street
- $4^{\text {th }}$ Street
- Holland Street
- $5^{\text {th }}$ Street
- 33 Road


US 6C at $4^{\text {th }}$ Street - looking west

- Four alleyways between $1^{\text {st }}$ Street and $5^{\text {th }}$ Street

All other access points along US 6C through downtown Clifton are property driveways and accesses.
Lighting along the US 6C corridor is limited to street lights on traffic signal poles and a short segment of continuous roadway lighting between $1^{\text {st }}$ Street and $5^{\text {th }}$ Street. There is also continuous roadway lighting along Front Street between $2^{\text {nd }}$ Street and $5^{\text {th }}$ Street and along F Road west of I-70B.

## Roadway Deficiencies

The US 6C study corridor from I-70B to 33 Road was reviewed for potential roadway deficiencies, including clear zone/obstructions, side slope (i.e., too steep without guardrail), sight distance (vertical and horizontal), lane taper lengths, and sidewalk gaps. Potential deficiencies along US 6C as well as the other main corridors in the study area are identified in Figures 3 and 4. The existing sidewalk conditions are described in the Corridor Multimodal Mobility


US 6C at Lois Street - looking west section of this report.

There are a variety of obstacles within a few feet of the through lanes on each side of US 6C through downtown Clifton, including utility poles and business signage. These obstacles are likely within the roadway clear zone and evaluation of these elements will occur as part of the alternatives analysis phase of the study. The roadway grades are relatively flat and the area roadways generally have minimal to no horizontal curvature, so sight distance does not appear to be an issue.

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Upon visual inspection, the pavement throughout the study area appears to be in fairly decent condition. Portions of the Front Street pavement appear to have degraded and shoulders along Front Street are minimal to nonexistent. Pavements along US 6C, 33 Road, and I-70B are in good condition, and much of the curb, gutter, and sidewalk (or monolithic curb, gutter, and sidewalk) in the project area appears to be relatively new and in good condition.

## Major Drainage Features

There are two watersheds that cover the project area, the Lewis Wash and Douglas Wash. The west portion of the study area is in Lewis Wash sub-basins. The major stem of Lewis Wash is west of the study area. The east portion of the study area is in the Douglas Wash basin. There are two large washes through the study area, Douglas Wash West and Douglas Wash East. There is inadvertent detention on the Douglas Wash West at the UPRR south of US 6C. The Douglas Wash West crosses the I-70 ramp via a 10 -foot by 5 -foot concrete box culvert (CBC). Table 2 lists locations of larger drainage structures and their capacity for passing runoff per the existing master plans.

Table 2: Major Drainage Structures in Study Area

| LOCATION | Structure | Flow Rate CAPACITY |
| :---: | :---: | :---: |
| Douglas West Wash at UPRR | 2-30" Reinforced Concrete Pipe (RCP) | 71 cfs |
| Douglas West Wash at US 6C | $48^{\prime \prime}$ pipe | 114 cfs |
| Douglas West Wash at 33 Road | $24^{\prime \prime}$ RCP | 20 cfs |
| Douglas West Wash at I-70 | $10^{\prime} \times 6^{\prime} \mathrm{CBC}$ | 606 cfs |
| Douglas West Wash at I-70 Ramp | $10^{\prime} \times 5^{\prime} \mathrm{CBC}$ | 518 cfs |
| Douglas East Wash at F Road | $5^{\prime} \times 6^{\prime} \mathrm{CBC}$ | 247 cfs |
| Douglas East Wash at US C6 | $10^{\prime} \times 5^{\prime} \mathrm{CBC}$ | 392 cfs |
| Douglas East Wash at UPRR | 108" CMP | 851 cfs |
| Douglas East Wash at Price Ditch | $11^{\prime} \times 3.5^{\prime} \times 5^{\prime}$ Weir Structure | 292 cfs |
| Douglas East Wash at F5/8 Road | $3.5^{\prime} \times 3.5^{\prime} \mathrm{CBC}$ | 36 cfs |
| Douglas East Wash at Government Highline Canal | $60^{\prime \prime} \mathrm{RCP}$ | 235 cfs |
| Douglas East Wash at 33 Road | $8^{\prime} \times 4.5{ }^{\prime} \mathrm{CBC}$ | 271 cfs |
| Douglas East Wash at I-70 | $10^{\prime} \times 6^{\prime} \mathrm{CBC}$ | 637 cfs |

Source: Douglas Wash Drainage Basin Master Plan
There is no FEMA regulated floodplain within the study area as shown on FIRM Panel 08077CO830F and FIRM Panel 08077CO835F. The Colorado River 100-year Floodplain is to the south of the study area.

The study area is within the 5-2-1 Drainage Authority Boundary. The 5-2-1 Drainage Authority is an outgrowth of the partnerships between the City of Grand Junction, the City of Fruita, the Town of Palisade, Mesa County and the Grand Valley Drainage District.

## Area Master Plans

There are two master plans that cover the study area, both prepared for the 5-2-1 Drainage Authority. The Lewis Wash Drainage Basin Master Plan covers the Lewis Wash watershed and sub-basins. The Douglas Wash Drainage Basin Master Plan contains information for Douglas Wash West and Douglas Wash East. Both master plans were completed in 2008 by URS and they include larger crossings for streets in and near the study area.

## Utilities

Utility information along the US 6C corridor within the study area was obtained from on-site field investigations, Mesa County Geographic Information Systems (GIS) data, and information collected from the utility companies in the area. Known utility providers in the area include:

- Xcel Energy
- CenturyLink
- Clifton Water District

■ Clifton Sanitation District

- Charter Communications

Existing stormwater facilities are discussed in the Major Drainage Features section of this report. Other utilities within the area are summarized in Table 3.

Utilities within areas of recommended improvements will be documented in the final corridor study report for avoidance and consideration during future design efforts. Further utility contacts and investigation will be required prior to preliminary design of any improvements along the corridor.

Table 3: Utilities in Study Area

| LOCATION | Description | Comments |
| :---: | :---: | :---: |
| US 6C: I-70B to 33 Road | Overhead electric line south side | Major feeder line to Clifton and points east |
| US 6C: I-70B to near 33 Road | Overhead communication lines - north side |  |
| US 6C: I-70B to 33 Road | Overhead communication line - south side | Communication lines on shared poles with electric |
| US 6C: north/south alleys | Overhead electric and communication lines | Overhead power and communication lines on shared poles in alleys feed neighborhoods north and south of US 6C. |
| US 6C: I-70B to 33½ Road | Buried high-pressure gas line | Within roadway prism |
| US 6C: I-70B to 33½ Road | Buried distribution gas lines | Lines vary from $2^{\prime \prime}$ to $8^{\prime \prime}$. Generally one line only, except between Lois Street and Holland Street, where there are 3 lines in US 6C. |
| US 6C: I-70B to 33½ Road | Water line |  |
| US 6C: north/south cross streets | Buried distribution gas lines | Generally $2^{\prime \prime}$ lines to south. Lines vary ( $2^{\prime \prime}$ min to $8^{\prime \prime}$ max) to north. These lines feed neighborhoods north and south of US 6C. |
| US 6C: north/south cross streets | Water line |  |
| US 6C: 1-70B to $2^{\text {nd }}$ Street | Sanitary Sewer |  |
| US 6C: $4^{\text {th }}$ Street to $5^{\text {th }}$ Street | Sanitary Sewer |  |
| US 6C: north/south cross streets | Sanitary Sewer | Buried in roadways, generally along west side of each road |
| 33 Road | Overhead electric line | Along west side of road |
| 33 Road | Overhead communication lines | On shared poles with electric |
| 33 Road | Buried distribution gas line | 2 " north of US 6C; 4 " south of US 6C |
| 33 Road | Sanitary Sewer | Buried in southbound lane |
| Front Street: 32 Road to $3^{\text {rd }}$ Street | Overhead electric line north side |  |
| Front Street | Overhead communication line - north side | On shared poles with electric |
| Front Street | Overhead communication line - south side |  |
| Front Street | Water line |  |
| Front Street | Sanitary Sewer | Between 32 Road and Laura Avenue, south side of road |
| Railroad right-of-way paralleling Front Street | Railroad communication lines |  |

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## Irrigation

During the field review in November 2014, many properties were observed to be served by underground irrigation. Throughout the Grand Valley, these subsurface irrigation systems serve individual properties. The water is used to irrigate lawns, landscaping, and crops. Headgates, pipes, valves, and other appurtenances are frequently placed at or near to the property and/or right-of-way lines. Most of the study area falls within the Palisade Irrigation District. The northern limits of the study area are within Mesa County Irrigation District, and the Grand Valley Irrigation District borders the study area to the south.

There are a number of irrigation ditches in the vicinity: three within the study area, including Stub Ditch, Government Highline Canal, and Price Ditch and one just to the south of the site, the Grand Valley Canal. The Government Highline Canal and its laterals are operated by the Grand Valley Water Users' Association.

The irrigation facilities within areas of recommended improvements will be documented in the corridor study report for avoidance and consideration during future design efforts. Further discussions with the irrigation companies and additional investigation will be required prior to preliminary design of any improvements along the corridor. These future discussions will coincide with any other utility coordination.

## Vehicular Traffic Operations

Due to vehicular interactions between closely-spaced intersections, the capacity and operations of an urban arterial corridor, such as US 6C through downtown Clifton, is typically defined by the operations of the intersections. Intersection and corridor operational analyses were completed for the US 6C Clifton Transportation Study utilizing methods outlined in the latest Highway Capacity Manual (HCM 2010) and using Synchro and SimTraffic (Version 8, build 805, revision 881) traffic analysis software. The existing intersection and corridor lane configurations and balanced peak hour traffic volumes for existing and the horizon year (2040) were used to analyze the Levels of Service (LOS) and control delay at each study intersection for the AM and PM peak hours for each of the analysis years.

LOS is directly related to control delay and is a measure of traffic flow and level of congestion at an intersection measured on a scale of $A$ to $F$. LOS A describes conditions with essentially uninterrupted flow and minimal delay. LOS F describes a breakdown of traffic flow where there exists excessive congestion delay. Signalized capacity analysis results in an overall LOS representative of all movements through the intersection. Unsignalized capacity analysis produces LOS results for each vehicle movement that yields the right-of-way to conflicting traffic. Table 4 summarizes the signalized and unsignalized LOS thresholds used in this analysis.

Table 4: Intersection LOS Criteria

| Intersection los Criteria |  |  |
| :---: | :---: | :---: |
| LOS | Signalized Delay RANGE ${ }^{1}$ (SEC) | Two-Way Stop Control Delay Range ${ }^{2}$ (sec) |
| A | 0-10 | 0-10 |
| B | 10-20 | 10-15 |
| C | 20-35 | 15-25 |
| D | 35-55 | 25-35 |
| E | 55-80 | 35-50 |
| F | 80 and above | 50 and above |

Source: ${ }^{1}$ HCM 2010 Exhibit 18-4, page 18-6
${ }^{2}$ HCM 2010 Exhibit 19-1, page 19-2

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The LOS of an urban street facility can also be measured based on the travel speed of vehicles traveling through a segment of the corridor. Travel speed is a reflection of the influence of intersection control, traffic flow, and congestion along a corridor, measured on a scale of A to F. LOS A describes primarily free-flow operation with travel speeds exceeding $85 \%$ of the base free-flow speed. LOS $F$ is characterized by heavy congestion, high delay, and extensive queuing with travel speeds at $30 \%$ or less of the base free-flow speed. Table 5 summarizes the LOS thresholds for vehicles on urban streets.

Table 5: Urban Streets LOS Criteria

| Urban Street LOS CRITERIA |  |
| :---: | :---: |
| LOS | Travel speed AS A PERCENTAGE OF |
| BASE Free-Flow Speed |  |
| A | $>85 \%$ |
| B | $>67-85 \%$ |
| C | $>50-67 \%$ |
| D | $>40-50 \%$ |
| E | $>30-40 \%$ |
| F | $<=30 \%$ |

Note: LOS F is assigned to the subject direction of travel if the through movement at one or more boundary intersections exceeds a 1.0 volume-to-capacity ratio.
Source: HCM 2010 Exhibit 16-4, page 16-8

## Existing Traffic Conditions

Traffic count data were collected within the study area in November 2014. Current and historical traffic count data were also compiled as available from Mesa County and CDOT. The traffic count data are included in Appendix B.

## Daily Traffic Volumes

Daily traffic provides a perspective on how traffic levels compare for the intended facility type. Daily traffic volumes were collected for the study at the following 16 locations:

■ I-70 and I-70B interchange (all four ramps)

- I-70B north of US 6C
- I-70B southwest of 32 Road
- FRoad west of 32 Road

■ US 6C east of I-70B
■ US 6C west of 33 Road
■ US 6C east of 33 Road

- 33 Road north of US 6C
- 33 Road south of US 6C
- $\mathrm{F}_{1}$ ² Road east of Lois Street


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- Lois Street north of US 6C
- $2^{\text {nd }}$ Street south of US 6C
- Front Street west of 33 Road

The daily traffic counts collected for the project are shown in Figure 5. The daily traffic volumes are the average for two days of data collection. The highest traffic volumes along US 6C within the study area occur just east of the I-70B intersection with approximately 14,150 vehicles per day (vpd). The traffic volumes along US 6C west of 33 Road are approximately 11,500 vpd, while just east of 33 Road volumes drop to approximately 7,950 vpd. The traffic volumes along US 6C, particularly at the west end of the study corridor, are near the planning-level capacity limits for a three-lane minor arterial with closelyspaced intersections and no access control restrictions.

West of 32 Road, F Road carries approximately $13,650 \mathrm{vpd}$, which is well within the capacity of a fourlane minor arterial. The highest traffic volumes along I-70B through the study area were collected southwest of 32 Road with approximately 14,900 vpd. North of US $6 \mathrm{C}, \mathrm{I}-70 \mathrm{~B}$ carries approximately 12,150 vpd, while south of the I-70 interchange, I-70B carries approximately $12,700 \mathrm{vpd}$.

Vehicle classification count data were also collected at select locations in order to measure truck traffic. Heavy trucks (vehicles with 3 or more axles) accounted for almost $5 \%$ of daily vehicles on I-70B north of US 6C. The westbound off-ramp and eastbound on-ramp accounted for the highest percentage of heavy trucks at about 7\% and 6\%, respectively. Heavy trucks accounted for about 1\% of daily traffic on US 6C west of 33 Road while almost $2 \%$ of traffic along 33 Road south of US 6C were heavy trucks.

Figure 5: Existing Traffic Volumes and Levels of Service


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## Historical Traffic Data

Traffic volumes throughout the year may fluctuate daily throughout the week and seasonally throughout the year. The daily traffic counts for this study were collected during November 2014. Based on historical seasonal factors provided by CDOT for each of the state highway corridors, the counts along US 6C may be lower than the average annual daily traffic (AADT) volumes by approximately $6 \%$. Also, the counts along I-70B may be lower than the AADT volumes by approximately $3 \%$.

Historical CDOT traffic count data were compiled for locations along US 6C and I-70B. Of the locations along US 6C and I-70B where daily traffic counts were collected for this study, CDOT has collected traffic counts over the past ten years at US 6C west of 33 Road and at I-70B south of the I-70 interchange. The traffic count data at these two locations are shown on Figure 6. The historical counts, almost exclusively taken during June, July, and August, were adjusted by CDOT seasonal factors to compare with the seasonally-adjusted traffic count data collected for this study.
As shown, traffic along US 6C east of 33 Road has remained fairly steady with slight growth based on the 2014 traffic counts collected for this study. Traffic counts along I-70B between US 6C and the I-70 interchange have fluctuated greatly over the years and the 2014 traffic counts collected for this study are the lowest traffic collected since 2001, despite seasonal adjustments. The economic conditions over the past few years may be a contributing factor to low traffic volume growth in the area. However, given the historical fluctuation in traffic counts along I-70B, the relatively low traffic volume collected for this study is not believed to be an indication of a continuing downward trend in traffic along I-70B.

Figure 6: I-70B and US 6C Traffic Data (2000-2014)


Note: Traffic counts adjusted for monthly variation using CDOT seasonal factors Source: CDOT (2000-2012 Counts), All Traffic Data (2014 Counts)

## Hourly Traffic Variation

Figure 7 shows the 15 -minute variation of the daily counts collected at two locations along US 6C; east of I-70B (at the west end of downtown Clifton) and east of 33 Road (at the east end of the study area). The counts at both locations show distinct increases in traffic volumes during the AM and PM commuting peak periods, although the overall duration of peak traffic conditions lasts less than an hour.

US 6C traffic east of I-70B is characterized by peak directionality with heavy traffic flow in the westbound direction, towards Grand Junction, in the morning and in the eastbound direction, toward Palisade, in the evening. This traffic pattern is a reflection of the high use of the corridor by commuters living in Palisade and the east Grand Valley destined for Grand Junction.

US 6C traffic east of 33 Road is characterized by a well-defined spike in the morning and less pronounced peak traffic flows in the evening. Unlike traffic along the west end of the study area, traffic along US 6C east of 33 Road does not display distinct directionality with the eastbound traffic volume higher than the westbound traffic volume during both the morning and evening commute periods. However, there is a traffic peak in the late afternoon with the westbound traffic slightly higher than the eastbound direction. This may be due to the afternoon release of area schools in Clifton and Palisade.

Figure 7: US 6C Weekday 15-Minute Traffic Variations


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Figure 8 shows the 15 -minute variation of the daily counts collected along I-70B south of the I-70 interchange. I-70B traffic at this location is characterized by peak directionality with heavy traffic flow in the northbound direction, toward the I-70 interchange, in the morning and in the southbound direction, toward Grand Junction and the Clifton area, in the evening. Reviewing traffic volumes on the entrance ramps at the interchange, the northbound morning traffic includes two distinct peaks: a 5:30 to 6:30 am peak of traffic destined for eastbound I-70 followed by a 7:15 to 7:45 am peak of traffic destined for westbound l-70. The southbound evening traffic is one large peak period that includes a distinct 5:00 to 5:30 pm peak for traffic from the I-70 eastbound off ramp and a flatter peak from 4:30 to 6:00 pm from the l-70 westbound off ramp.

Figure 8: I-70B Weekday 15-Minute Traffic Variations


Source: All Traffic Data (2014 counts)

## Peak Hour Traffic Volumes

Peak hour intersection traffic volumes are used to evaluate and quantify traffic operations and capacity of an urban arterial roadway system. Peak hour intersection counts were collected for this study at the following five locations.

- I-70B at Budweiser Access (Unsignalized)
- I-70B and US 6C (F Road) (Signalized)

■ I-70B and 32 Road (SH 141) (Signalized)

- US 6C (F Road) and ${ }^{\text {st }}$ Street (Signalized)
- US 6C (F Road) and 33 Road (Signalized)


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Peak hour intersection counts were available at the same intersections along US 6C and I-70B for 2007 and 2008. Comparing the 2014 data collected for this study to the earlier data reveals that peak hour traffic along US 6C has not substantially changed over the last seven years. In addition to the recent economic conditions, the lack of traffic growth may also be a reflection of the delays experienced at the intersections during the morning and afternoon peak periods and commuters using alternate routes to avoid the congestion.

In order to analyze and simulate traffic operations along the US 6C corridor with Synchro traffic analysis software, a network of AM and PM peak hour traffic with volumes balanced between major intersections was created. The counts collected for this study were utilized in conjunction with other available traffic volume data to balance peak hour traffic volumes through the corridor.

## Existing Traffic Operational Analysis

Existing intersection traffic operations are illustrated in Figure 5 and summarized in Table 6. As shown, all intersections operate at LOS C or better during both peak hours except the US 6C and $1^{\text {st }}$ Street intersection, which operates at LOS D during the PM peak hour. Existing intersection operation reports are included in Appendix C.

Table 6: Existing Intersection Performance

| INTERSECTION | CONTROL | EXISTING AM / PM PEAK HoUR |  |
| :--- | :---: | :---: | :---: |
|  |  | DELAY (SEC) | LOS |
| I-70B \& Budweiser Access | Stop | $14.9 / 17.7$ | B / C |
| I-70B \& US 6C (F Road) | Signal | $20.0 / 25.3$ | C / C |
| I-70B \& 32 Road (SH 141) | Signal | $26.7 / 34.8$ | C / C |
| US 6C (F Road) \& 1 ${ }^{\text {st }}$ Street | Signal | $23.6 / 43.8$ | C / D |
| US 6C (F Road) \& 33 Road | Signal | $11.3 / 11.6$ | B / B |

Note: Signalized intersection reported with delay and LOS
Stop-controlled intersection reported with worst movement delay and LOS
Source: DEA analysis with HCM 2010 methods
In addition to intersection LOS, corridor LOS was determined for segments of US 6C to indicate overall performance of the roadway through the study area. Average travel speeds along US 6C between I-70B and 33 Road were measured using traffic simulation software SimTraffic. Corridor LOS was determined based on the average speeds and is summarized by direction during the peak hours in Table 7. Existing corridor operation reports are included in Appendix C.

In the eastbound direction, the US 6C corridor between I-70B and $1^{\text {st }}$ Street performs at LOS D and E during the AM and PM peak hours, respectively. East of $1^{\text {st }}$ Street, the roadway performs at LOS C or better during the peak hours. In the westbound direction, the US 6C corridor between I-70B and 2nd Street performs at LOS E or worse during both peak hours. East of $2^{\text {nd }}$ Street the corridor performs at LOS A during the AM and PM peak hours.

Table 7: Existing US 6C Corridor Performance

| US 6C |  | Existing AM / PM Peak Hour |  |
| :---: | :---: | :---: | :---: |
| Direction | Segment Extents | Speed (MPH) | LOS |
| Eastbound | I-70B to $1^{\text {st }}$ Street | 13 / 10 | D / E |
|  | $1^{\text {st }}$ Street to $2^{\text {nd }}$ Street | 20/17 | $C / C$ |
|  | $2^{\text {nd }}$ Street to 33 Road | 25/25 | B / B |
|  | Overall | 20/18 | $C / C$ |
| Westbound | 33 Road to $2^{\text {nd }}$ Street | $28 / 29$ | A / A |
|  | $2^{\text {nd }}$ Street to $1^{\text {st }}$ Street | 8 / 9 | F/F |
|  | $1^{\text {st }}$ Street to I-70B | $9 / 11$ | F/E |
|  | Overall | 17 / 18 | C / C |

Source: DEA analysis with HCM 2010 methods
During the AM peak hour, congestion at the I-70B and $1^{\text {st }}$ Street intersections results in the longest vehicle queues generally occurring in the westbound direction. At ${ }^{\text {st }}$ Street, $95^{\text {th }}$ percentile westbound vehicle queues extend beyond the $2^{\text {nd }}$ Street intersection due to the tight intersection spacing. During the PM peak hour, congestion is greatest in the eastbound direction between I-70B and $1^{\text {st }}$ Street and results in $95^{\text {th }}$ percentile vehicle queues that extend over halfway to the $\mathrm{I}-70 \mathrm{~B}$ intersection.

## General Operational Issues

There are numerous traffic operations issues along the US 6C corridor through downtown Clifton that do not lend themselves to a simple LOS description.

## I-70B Intersection

The I-70B and US 6C intersection has a relatively large footprint with I-70B crossing US 6C at about a 45degree angle. The skew of the intersection creates geometric challenges as several movements must make sharp turns at lower speeds. The flexibility of the signal timing is limited due to the clearance requirements for each movement through the relatively large intersection. The large intersection is also intimidating for pedestrians to cross, even with the large corner island refuges.

The signal at I-70B and US 6C is 700 feet west of the $1^{\text {st }}$ Street and US 6C signalized intersection. There are five lanes on US 6C west of $1^{\text {st }}$ Street and a three-lane section east of $1^{\text {st }}$ Street, with the outside lanes adding and dropping at the $1^{\text {st }}$ Street signal. The lane changes and merging conditions that occur between the signals creates recurring operational issues, particularly in the eastbound direction with the additional merge from the northbound $\mathrm{I}-70 \mathrm{~B}$ right turn acceleration lane.

Queuing problems along US 6C generally occur at I-70B in the westbound direction during the AM peak period and in the eastbound direction at $1^{\text {st }}$ Street during the PM peak period, consistent with the peak hour commuting travel direction of the corridor. The congestion at the $1^{\text {st }}$ Street intersection affects the capacity of the I-70B intersection and queuing along the I-70B approaches.

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## US 6C Access Control

The lack of access control along US 6C east of 1st Street creates numerous unmanaged left turns and crossing movements of traffic, which contributes to congestion and creates a safety issue. The US 6 Clifton Access Control Plan was completed for the study corridor in 2008 and the recommendations for access restrictions have been implemented between I70B and 1st Street. However, all of the existing access points between 1st Street and 33 Road remain as full movement intersections. There is a continuous twoway left-turn lane and no curb and gutter along the highway and several properties have pavement across the entire frontage length of the property, which allows unlimited maneuvers for turning traffic on and off the highway.

In addition to being a safety issue for drivers, this


Property frontage along US 6C at $4^{\text {th }}$ Street condition is a safety concern for pedestrians and bicyclists along the corridor. Without a defined access, it is more difficult for pedestrians and bicyclists to anticipate driver movements to avoid conflicts.

The ACP outlines specific recommendations for the location of existing and future access points along the US 6C corridor, as well as the type of traffic control at each intersection. The recommendations from the ACP will be considered as part of the base alternative and may be modified, if needed, with project recommendations from this study.

## Parking

Many of the local business properties along US 6C through downtown Clifton are relatively shallow and utilize the entire paved frontage for undefined parking space. This parking situation contributes to congestion and operational issues along the corridor as drivers access the properties at various turning angles and speeds, sometimes backing up into the highway through traffic.

The condition of adjacent local business parking also affects the implementation of access control along the corridor, since simply defining a single driveway for a property would not be easily accomplished unless a property


## Clifton Elementary School

Clifton Elementary School has students from Preschool through 5th grade. Mesa County School District 51 does not provide bus service for students living within two miles of an elementary school. Therefore,

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adequate pedestrian and bicyclist access, suitable for young children, is a primary concern for Clifton residents with children attending the elementary school. There is a crosswalk with a pedestrianactivated traffic signal east of $5^{\text {th }}$ Street to provide access across the highway at the school. However, there is no sidewalk along the north side of US 6C at the school and only a short segment of sidewalk along the south side of US 6C, leading from the pedestrian signal to $5^{\text {th }}$ Street.

School begins at 8:25 am each day and ends at 3:50 pm every day except Wednesday, when there is early dismissal at 1:50 pm. There is a dedicated drop off/pick up area around the perimeter of the


Pedestrian signal at Clifton Elementary School parking lot and a bus area with a separate access to US 6C east of the pedestrian signal. There are signs on the local streets on the northwest edge of the school property to discourage parent drop off/pick up traffic in the residential area. During school drop off/pick up periods, congestion along the highway increases with the slower ( 25 MPH ) school speed zone, additional pedestrian activity, and traffic accessing the school parking lot.

## Future Traffic Conditions

The horizon year for this study is 2040, consistent with the horizon year for the current GVMPO regional travel demand model. The 2040 travel demand model was developed for the 2040 Grand Valley Regional Transportation Plan, currently being finalized.

## Travel Demand Model

The GVMPO 2040 regional travel demand model was used to develop 2040 traffic forecasts for the study area roadways. In coordination with GVMPO planning staff, the GVMPO model was reviewed for the purposes of this study. The roadway network, traffic analysis zone structure, and socioeconomic data were reviewed and determined to adequately represent the study area and surrounding region.

Due to the complexity of real-world travel behavior, the GVMPO travel demand model is not expected to provide precise traffic volume forecasts. To improve the reliability of forecasts, a post-processing adjustment of the 2040 traffic volumes was performed in coordination with GVMPO staff. The adjustment methodology compared the existing year model traffic volumes to actual traffic counts in the study area. The 2040 traffic forecasts were adjusted based on this factor for model versus actual traffic volumes. Appendix D provides further detail regarding the travel demand forecasting methodology and the 2040 traffic forecast volume adjustments.

## 2040 Traffic Conditions

Traffic forecasts for year 2040 within the study area are illustrated in Figure 9, along with the projected intersection levels of service. Traffic along US 6C within the study area is projected to increase between approximately 3,000 and 7,000 daily vehicles by 2040 with the greatest increases occurring along the
west end of the corridor. Immediately east of the I-70B intersection, US 6C traffic is projected to increase by just fewer than 7,000 vehicles, to 21,000 daily. This equates to a $1.3 \%$ annual increase in daily traffic volumes from the existing year. This traffic volume may be accommodated adequately by a three-lane minor arterial with limited peak hour congestion, if there are comprehensive access control restrictions and adequate spacing between full movement intersections.

West of 33 Road, traffic along US 6C is projected to increase by approximately 3,500 vehicles daily while east of 33 Road traffic is expected to increase by approximately 3,000 vehicles. This equates to a $0.8 \%$ and $1.0 \%$ annual increase in daily traffic along US 6C west and east of 33 Road, respectively.

Traffic along I-70B is projected to increase between approximately 13,000 and 24,000 daily vehicles by 2040. Between the I-70 interchange and the US 6C intersection, daily traffic is projected to increase by over 19,000 vehicles to 33,000 daily. This equates to an increase in daily traffic volumes of approximately $3.5 \%$ annually from the existing year to year 2040. Along I-70B south of Old 32 Road, daily traffic is projected to increase by over 12,000 vehicles to 27,000 daily, an increase of over $2 \%$ annually.

These traffic forecasts are substantially lower than the traffic forecasts utilized by previous transportation plans and studies within the area, which were developed for the Grand Valley 2035 Regional Transportation Plan. The population, economic, and travel demand forecasts used at that time suggested that the region would experience robust growth rates. However, as noted in the Grand Valley 2040 Regional Transportation Plan, the economic downturn significantly dampened current and future growth rates. Newer population forecasts revised growth rates downward in the near and mid-term, so that the region is expected to grow more slowly. The revised population and employment forecasts for the region greatly reduced the traffic forecasts along US 6C. However, the corridor still faces capacity constraints, operational issues, and safety concerns.

Figure 9: Year 2040 Traffic Volumes and Levels of Service


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The 2040 peak hour traffic operations are summarized in Table 8 along with results of the existing operational analysis for comparison. The Budweiser Access intersection with I-70B was analyzed as a signalized intersection based on plans to install a signal for development by 2040. The intersection operation reports are included in Appendix C.

As shown, three of the five signalized intersections along the US 6C and the I-70B study corridors are projected to operate at LOS E or worse during the 2040 AM and/or PM peak hours, assuming no improvements to the existing corridors other than the new signal at the Budweiser Access intersection. The intersections with reported LOS E or worse operations include I-70B and US 6C, I-70B and 32 Road, and US 6 C and $1^{\text {st }}$ Street. All three intersections are expected to operate at LOS E or worse during the PM peak hour while the US 6C and $1^{\text {st }}$ Street intersection is expected to operate at LOS F during the AM peak hour. Both the I-70B and Budweiser Access and US 6C and 33 Road signalized intersections are expected to operate at LOS B or better during the peak hours

Table 8: Existing and Year 2040 Intersection Performance

| INTERSECTION | CONTROL | Existing AM/PM Peak Hour |  | 2040 AM/PM PEAK Hour |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Delay (SEC) | LOS | DeLAY (SEC) | LOS |
| I-70B \& Budweiser Access ${ }^{1}$ | Stop | 14.9 / 17.7 | B / C | - | - |
|  | Signal | - | - | 3.9 / 6.2 | A / A |
| I-70B \& US 6C (F Road) | Signal | 20.0 / 25.3 | C/C | 27.7 / 61.4 | C/E |
| I-70B \& 32 Road (SH 141) | Signal | 26.7/34.8 | C/C | 29.5 / 55.2 | C/E |
| US 6C (F Road) \& $1^{\text {st }}$ Street | Signal | 23.6 / 43.8 | C / D | 112.4 / 172.1 | F/F |
| US 6C (F Road) \& 33 Road | Signal | 11.3 / 11.6 | B / B | 11.8 / 16.0 | B / B |

Note: Signalized intersection reported with delay and LOS
Stop-controlled intersection reported with worst movement delay and LOS
Source: DEA analysis with HCM 2010 methods

US 6C corridor performance in 2040 was analyzed and the results are summarized and compared to 2014 results in Table 9. The corridor operation reports are included in Appendix C. In general, travel speeds along the corridor will deteriorate. In the eastbound direction, performance between I-70B and $1^{\text {st }}$ Street will degrade to LOS E and F during the AM and PM peak hours, respectively. The PM peak hour average speed will decrease to approximately 5 MPH. East of $1^{\text {st }}$ Street, performance is expected to remain at LOS C or better with average travel speeds decreasing by no more than 1 MPH . In the westbound direction, performance between $1^{\text {st }}$ Street and I-70B will remain at LOS F and LOS E during the AM and PM peak hours, respectively. US 6C between $1^{\text {st }}$ Street and $2^{\text {nd }}$ Street will continue to operate at LOS F during the peak hours. East of $2^{\text {nd }}$ Street, the roadway is expected to experience a decrease in average speeds of 10 and 2 MPH during the AM and PM peak hours, respectively. The AM peak hour performance is expected to degrade from LOS A to LOS C.

Table 9: Existing and Year 2040 US 6C Corridor Performance

| US 6C |  | Existing AM / PM Peak Hour |  | Year 2040 AM / PM Peak Hour |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DIRECTION | SEGMENT <br> ExTENTS | SPEED (MPH) | LOS | Speed (MPH) | LOS |
| Eastbound | I-70B to $1^{\text {st }} \mathrm{St}$ | 13 / 10 | D / E | 12 / 5 | E/F |
|  | $1^{\text {st }}$ St to $2^{\text {nd }} \mathrm{St}$ | 20/17 | $C / C$ | 19 / 16 | $C / C$ |
|  | $2^{\text {nd }}$ St to 33 Road | $25 / 25$ | B / B | 25 / 24 | B / B |
|  | Overall | 20/18 | C/C | 19 / 13 | $C / D$ |
| Westbound | 33 Road to $2^{\text {nd }}$ St | $28 / 29$ | A / A | 18/27 | C/A |
|  | $2^{\text {nd }}$ St to $1^{\text {st }} \mathrm{St}$ | 8 / 9 | F/F | 7 / 9 | F/F |
|  | $1^{\text {st }}$ St to l-70B | $9 / 11$ | F/E | $9 / 10$ | F/E |
|  | Overall | 17 / 18 | C / C | 14 / 17 | D / C |

Source: DEA analysis with HCM 2010 methods
Queue lengths along the US 6C corridor were also analyzed in 2040 and the results are summarized and compared to 2014 results in Table 10. The queue length reports are included in Appendix C. By the year 2040, the increase in traffic volumes and lack of operational improvements along the US 6C corridor are expected to result in increased queues at the signalized intersections at I-70B and $1^{\text {st }}$ Street. During the peak hours, the traffic analysis shows the $95^{\text {th }}$ percentile vehicle queues in the westbound direction extend back over 800 feet from $1^{\text {st }}$ Street to beyond Lois Street. During the PM peak hour, congestion in the eastbound direction will result in $95^{\text {th }}$ percentile vehicle queues extending over 1100 feet from $1^{\text {st }}$ Street to the I-70B intersection and beyond. Side street approaches to US 6C between $1^{\text {st }}$ Street and $5^{\text {th }}$ Street are also expected to experience increased queues.

Table 10: Existing and Year 2040 US 6C 95 ${ }^{\text {th }}$ Percentile Queue Lengths

| US 6C |  | Existing Queue Length (Feet) |  | Year 2040 Queue Length (Feet) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DIRECTION | INTERSECTION ApPROACH | AM Peak Hour | PM Peak Hour | AM Peak Hour | PM Peak Hour |
| Eastbound | I-70B | 170 | 230 | 290 | 500 |
|  | $1^{\text {st }}$ St | 280 | 520 | 370 | 1110* |
|  | 33 Road | 140 | 200 | 120 | 230 |
| Westbound | 33 Road | 160 | 100 | 140 | 130 |
|  | $1^{\text {st }} \mathrm{St}$ | 350* | 310* | 850* | 530* |
|  | I-70B | 230 | 170 | 420 | 270 |

Note: * Queue length extends to and/or beyond upstream intersection.
Source: SimTraffic queue length analysis

The increased congestion will result in increased travel times along the corridor and fewer gaps in vehicle platoons that will allow for vehicle turning movements on and off of US 6C. The limited gaps may result in increased safety concerns as drivers must make riskier attempts to turn on and off the highway during the peak travel periods. The number of crashes along US 6 C will likely increase as a result of the increased traffic volumes and congestion.

## Crash History

CDOT is completing a safety assessment for the US 6C corridor from I-70B to 33 Road with estimated completion

This section describes an evaluation of the crash history for roadways within the study area. This information will be used for the determination of the project needs and development of alternatives with potential corrective measures to improve safety. March 2015. That assessment will compare the crash rate to similar highways to identify potential corrective measures. Previously, CDOT completed an Access Control Assessment Report for the US 6C study corridor as part of the US 6 - Clifton Access Control Plan. That report examined five years of crash data from January 1, 2000 through December 31, 2005 and it concluded that the highway operates at a level below average for safety and it is expected to become worse in the future as traffic volumes increase. There have been no major changes to the corridor east of $2^{\text {nd }}$ Street since that report. In addition, the ACP noted that the lack of defined access points at many locations along the corridor plus a lack of adequate sidewalks for the vast majority of the corridor create unsafe conditions for pedestrians. As traffic volumes increase in the future, the overall safety for pedestrians using the US 6C corridor is expected to decrease.

In order to identify general crash trends for this study prior to the completion of the new safety assessment report, CDOT crash data along US 6C and I-70B were compiled and reviewed for a five-year period from July 2009 through June 2014. Additional crash data along $1^{\text {st }}$ Street, $2^{\text {nd }}$ Street, 33 Road, and Front Street was provided by Mesa County, covering a five-year period from January 2009 through December 2013.

The vast majority of the crashes along US 6C within the study area occurred along the west half of the corridor, from I-70B to $5^{\text {th }}$ Street. Due to the close proximity of intersections, alleys, and business accesses along US 6C, it is difficult to accurately assign crashes to individual intersections and access points. For this reason, crashes are summarized by segment along US 6C.

For I-70B, crashes were summarized for the I-70B and US 6C intersection and for segments north and south of US 6C. The type of crashes (rear end, broadside, head-on, sideswipe, etc.) occurring along the roadway is an important consideration because it not only relates to the severity of the crashes, but also to the potential corrective measures that may be developed.

## US 6C Crashes

The types of crashes along US 6C from west of the I-70B intersection to east of the bridge over the UPRR are summarized in Table 11. Rear end crashes were by far the most common type of crash within the study period, accounting for over $50 \%$ of all crashes along US 6C. Crashes were most predominant at the $1-70 B$ intersection where 34 crashes occurred during the 5 -year study period. The 33 Road and $2^{\text {nd }}$ Street intersections were the next most common crash locations with 8 and 7 crashes during the fiveyear time period, respectively.

Table 11: US 6C Corridor Crash Type and Location (2009-2014)

| US 6C Segment |  |  |  | $\begin{aligned} & z \\ & 0 \\ & \vdots \\ & \vdots \\ & \underline{1} \\ & \underline{1} \end{aligned}$ | $\begin{aligned} & \text { u } \\ & \sum_{2}^{2} \\ & \text { un } \\ & 0 \\ & \text { n } \end{aligned}$ |  | $\begin{aligned} & z \\ & \frac{1}{5} \\ & 0 \\ & \hline \mathbf{4} \\ & 0 \end{aligned}$ |  |  |  | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| West of $1^{\text {st }}$ Street | 23 | 4 | 5 | 1 | 5 | 1 | 0 | 0 | 0 | 1 | 40 |
| $1{ }^{\text {st }}$ Street to $5^{\text {th }}$ Street | 10 | 2 | 2 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 18 |
| $5^{\text {th }}$ Street to 33 Road | 5 | 2 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 11 |
| East of 33 Road | 6 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 2 | 13 |
| Total: | 44 | 9 | 9 | 1 | 10 | 3 | 0 | 3 | 0 | 3 | 82 |
| Percentage: | 53.7\% | 11.0\% | 11.0\% | 1.2\% | 12.2\% | 3.7\% | 0\% | 3.7\% | 0\% | 3.7\% | 100\% |

Source: CDOT crash data
The single head-on crash along US 6C occurred at the I-70B intersection and involved a westbound vehicle turning left onto $\operatorname{I-7OB}$ and an eastbound vehicle traveling through the intersection from F Road to US 6C. This crash occurred at night and the severity was listed as property damage only.

Three crashes along US 6C during the study period involved pedestrians. The first crash (in 2011) involved an eastbound vehicle turning left either onto Holland Street or into a business access during daylight hours. The second crash (in 2012) involved an eastbound vehicle hitting an eastbound pedestrian between the school and 33 Road during daylight hours at approximately $4: 40 \mathrm{pm}$. The third pedestrian crash (in 2013) involved an eastbound vehicle and a pedestrian crossing US 6C at night and alcohol was involved. All three vehicle-pedestrian crashes were listed as injury crashes.

The crashes along US 6C within the study area are also summarized by severity in Table 12. Nearly 25\% of the crashes involved personal injury and one crash was a fatality.

Table 12: US 6C Corridor Crash Severity (2009 - 2014)

| US 6C SEGMENT | FATALITY | INJURY | PROPERTY <br> DAMAGE <br> ONLY | TOTAL |
| :--- | :---: | :---: | :---: | :---: |

Source: CDOT crash data

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The fatal crash along US 6C occurred at the I-70B intersection shortly after midnight on April 7, 2012. The crash was an approach turn crash involving a westbound vehicle turning left onto I-70B and an eastbound vehicle traveling through the intersection from F Road to US 6C. "Driver emotionally upset" was listed as a factor in the crash.

## I-70B Crashes

The types of crashes along I-70B from south of the Old 32 Road intersection to south of the I-70 interchange are summarized in Table 13.

Table 13: I-70B Corridor Crash Type and Location (2009-2014)

| US 6C Segment |  |  |  | $\begin{aligned} & \text { Z } \\ & \text { ì } \\ & \stackrel{1}{4} \\ & \underline{1} \end{aligned}$ |  | $\begin{aligned} & \text { 은 } \\ & \text { 爰 } \\ & \hline 0 \end{aligned}$ | 2 20 2 0 0 0 | 2 $\frac{2}{6}$ $\frac{1}{5}$ 4 0 0 | $\begin{aligned} & \text { u } \\ & \text { U } \\ & \text { U } \end{aligned}$ | $\begin{aligned} & \text { 坒 } \\ & \stackrel{\rightharpoonup}{5} \end{aligned}$ | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| North of US 6C | 4 | 1 | 1 | 0 | 2 | 6 | 1 | 0 | 0 | 0 | 15 |
| At US 6C Intersection | 11 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 15 |
| South of US 6C | 68 | 18 | 19 | 1 | 22 | 2 | 0 | 0 | 1 | 6 | 137 |
| Total: | 83 | 21 | 20 | 1 | 24 | 10 | 1 | 0 | 1 | 6 | 167 |
| Percentage: | 49.7\% | 12.6\% | 12.0\% | 0.6\% | 14.4\% | 6.0\% | 0.6\% | 0\% | 0.6\% | 3.6\% | 100\% |

Source: CDOT crash data

As with the US 6C corridor, rear end crashes were the most common along I-70B within the study area during the study period, accounting for just under $50 \%$ of all crashes. Crashes were most predominant at the 32 Road intersection, where 79 crashes occurred during the five-year time period. The 33 Road and $2^{\text {nd }}$ Street intersections were the next most common crash locations with 27 and 15 crashes during the 5 -year time period, respectively.

The single head-on crash on I-70B occurred in April 2013 at the 32 Road intersection during daylight hours. The injury crash involved an eastbound vehicle turning left onto 32 Road and a westbound vehicle traveling through the intersection on I-70B. A crash involving a bicyclist also occurred at the 32 Road intersection in October 2011. The injury crash involved a northbound bicyclist and a westbound vehicle during daylight hours.

The crashes along I-70B within the study area are also summarized by severity in Table 14. Nearly 30\% of the crashes involved personal injury and one crash was a fatality. The fatal crash occurred at the 32 Road intersection at approximately $8: 30 \mathrm{pm}$ on August 10, 2012. The crash was a broadside crash involving a northbound vehicle on 32 Road and a westbound vehicle on I-70B. No apparent factors in the crash were included in the accident listing report.

Table 14: I-70B Corridor Crash Severity (2009-2014)

| I-70B Segment | FATALITY | INJURY | PROPERTY <br> DAMAGE <br> ONLY | TOTAL |
| :--- | :---: | :---: | :---: | :---: |
| North of US 6C | 0 | 3 | 12 | 15 |
| At US 6C Intersection | 0 | 4 | 11 | 15 |
| South of US 6C | 1 | 43 | 93 | 137 |
| Total: | 1 | 50 | 116 | 167 |
| Percentage by type: | $0.6 \%$ | $29.9 \%$ | $69.5 \%$ | $100 \%$ |

Source: CDOT crash data

## Other Roadway Crashes

Crash data received from Mesa County for $1^{\text {st }}$ Street/32 $1 / 2$ Road, $2^{\text {nd }}$ Street, 33 Road, and Front Street was summarized for the five-year period from January 2009 through December 2014. The crashes along these four roadways within the study area are summarized by severity in Table 15.

Table 15: Crash Locations and Severity Along Streets Within the Project Study Area (2009-2014)

| STUDY AREA ROADWAY | FATALITY | INJURY | PROPERTY <br> DAMAGE <br> ONLY | TOTAL |
| :--- | :---: | :---: | :---: | :---: |
| 1 $^{\text {st }}$ Street/32 $1 / 2$ Road near US 6C | 0 | 1 | 10 | 11 |
| 1 $^{\text {st }}$ Street/32 $1 / 2$ Road near Front Street | 0 | 0 | 7 | 7 |
| $2^{\text {nd }}$ Street (US 6C to Front Street) | 0 | 2 | 8 | 10 |
| Front Street (32 Road Overpass to 33 Road) | 0 | 1 | 3 | 4 |
| 33 Road (G Road to Front Street) | 0 | 1 | 20 | 21 |
| Total: | 0 | 5 | 48 | 53 |
| Percentage by type: | $0.0 \%$ | $9.4 \%$ | $90.6 \%$ | $100 \%$ |

Source: Mesa County crash data

Along $1^{\text {st }}$ Street $/ 321 / 2$ Road to the north and south of the US 6C intersection, 11 crashes occurred at or close to the intersection during the five-year period. Only one crash included injuries and none of the crashes included fatalities. One pedestrian-related crash occurred along $1^{\text {st }}$ Street approximately 150 feet south of the US 6C intersection. Rear end crashes were most common along $1^{\text {st }}$ Street $/ 321 / 2$ Road. Along $1^{\text {st }}$ Street $/ 321 / 2$ Road from Orson Avenue to just south of the UPRR, seven crashes occurred during the five-year period. Three of the crashes involved fixed objects, three were rear-end crashes, and one crash was a broadside crash south of the UPRR. None of the crashes involved injuries or fatalities.

Along $2^{\text {nd }}$ Street from the US 6C intersection to the Front Street intersection, ten crashes occurred during the five-year time period. Six of the crashes occurred at or in close proximity to the US 6C intersection. Two crashes included injuries and none of the crashes included fatalities. There were no more than two of a given crash type along $2^{\text {nd }}$ Street.

Along Front Street, there were four crashes during the five-year time period. One crash occurred near the west end of the roadway while two of the crashes occurred between $1^{\text {st }}$ Street and $2^{\text {nd }}$ Street. A head-on crash at the $4^{\text {th }}$ Street intersection was the only injury crash.

Along 33 Road from G Road to Front Street, 21 crashes occurred during the five-year time period. Eleven of the crashes occurred at the US 6C intersection, of which only two were not included in the CDOT accident listings for the same time period. Of the remaining ten crashes, seven occurred north of US 6C with three of the crashes within close proximity of US 6C and three just south of G Road. The crashes south of G Road included two with fixed objects and one head on crash. Three crashes along 33 Road occurred south of US 6C, with two of them at the Front Street intersection. Of all the crashes, only one included injuries and none of the crashes were fatalities.

## Corridor Multimodal MObILITY

The study area is served by GVT and two regional park-n-ride facilities, located in the northwest and northeast corners of the I-70B and US 6C intersection. Pedestrian and bicycle infrastructure conditions along the US 6C corridor were inventoried for this study in November 2014.

## Transit Services

US 6C through downtown Clifton is served by GVT Route 4 or the "Palisade" Route. Route 4 provides connections to destinations from the Clifton Transfer Station at I-70B and 32 Road, through Clifton to Palisade. Route 4 buses operate once per hour, every hour from 4:45 am to $8: 35 \mathrm{pm}$. The route takes 50 minutes to operate as a loop from the transfer station to Palisade and back.

The GVT route system within the vicinity of the study area is illustrated in Figure 10. In addition to Route 4, Routes 2, 3, 9, and 10 all end at the Clifton Transfer Station. Route 2, the "Patterson Road" Route, is an east-west route providing service from


Clifton Transfer Center the Mesa Mall Transfer Station to the Clifton Transfer Station via the Patterson Road/F Road corridor north of downtown. Route 3, the "Orchard Avenue" Route, provides service north from the Downtown Transfer Station to Orchard Avenue and then east to the Clifton Transfer Station. Route 9, the "North Avenue" Route, provides service from the Downtown Transfer Station north to North Avenue and then east to the Clifton Transfer Station via North Avenue and I-70B. Route 10, the "Clifton" Route, is a loop route serving the Clifton Transfer Station to the north, D Road to the south, 29 Road to the west, and 33 Road to the east.

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According to the Draft GVT 2014 Onboard Survey and Counts Report, approximately 215 riders used Route 4 during a 24 -hour period from noon on October 1 to noon on October 2, 2014. Table 16 shows the Route 424 -hour boardings and alightings at stops within the project study area.

Table 16: Route 4 Daily Boardings and Alightings within the Study Area

| Route 4 Stop Location | Direction | BoArdings | Alightings |
| :--- | :---: | :---: | :---: |
| Clifton Transfer Station (32 Road \& I-70B) | EB/WB | $30+$ | $30+$ |
| 32 Road \& South of Patterson Road | WB | $1-4$ | $5-10$ |
| F Road \& East of Helena Street | WB | 0 | 0 |
| Peach Tree Shopping Center (Gold's Gym) | EB/WB | $5-10$ | $11-30$ |
| $2^{\text {nd }}$ Street \& Grand Avenue | EB | 0 | $5-10$ |
| US 6C \& East of Lois Street | WB | $5-10$ | $1-4$ |
| Front Street \& East of 3 ${ }^{\text {rd }}$ Street | EB | 0 | $1-4$ |
| Front Street \& West of 33 Road | EB | $1-4$ | $5-10$ |

Source: GVT
The Clifton Transfer Station experienced the greatest boardings/alightings of any stops along the route with the Peach Tree Shopping Center stop the second busiest within the study area. According to the Draft GVT 2014 Onboard Survey and Counts Report, the Clifton Transfer Station had the second greatest daily boardings and alightings within the GVT system, second only to the Downtown Transfer Site. The Clifton Transfer Station experienced approximately 570 boardings and 450 alightings during the 24-hour survey period. According to the Draft GVT 2014 Onboard Survey and Counts Report, 19\% of riders on all GVT routes reported living in Clifton. Only Grand Junction had a higher percentage of GVT users at 55\%.

The GVT bus stops within the study area are often lacking amenities. Many stops have no benches, shelters, or route and schedule information. Bicycle and pedestrian connections are also commonly lacking at the GVT bus stops. According to the Draft GVT 2014 Onboard Survey and Counts Report, 81\% of transit riders access the system by foot while $7 \%$ access the system by bicycle.


In addition to the GVT bus service, the Mesa County School District 51 provides bus service for students living two miles or more from an elementary school and three miles or more from a middle school or high school. Bus service for the Mesa County School District is provided by First Student, a student transportation services company. The bus service currently has a bus route that stops at US 6C and Lois Street. Traffic along US 6C in both directions is required to stop as students get on and off the bus.

Figure 10: Existing Multimodal Conditions


Source: GVT, DEA

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## Pedestrian and Bicycle Conditions

Sidewalks within the study area are illustrated with the transit routes and stops in Figure 10. There is recently-installed sidewalk along the south side of US 6C leading from the pedestrian signal at Clifton Elementary School to $5^{\text {th }}$ Street and along the east side of $5^{\text {th }}$ Street to the church parking area at Grand Avenue. There is sidewalk along both sides of 33 Road that was installed with recent roadway reconstruction from about 300 feet north of US 6 C to E $3 / 4$ Road, south of the UPRR crossing. There is sidewalk along the new section of $1^{\text {st }}$ Street south of US 6C and along US 6C adjacent to a few properties near I-70B. There is attached and detached sidewalk along both sides of $F$ Road, west of I-70B.

East of $2^{\text {nd }}$ Street, there are almost no sidewalks on either side of US 6C through downtown Clifton. There is no sidewalk along I-70B within the study area, except for a short section of


Pedestrian walking along US 6C east of $2^{\text {nd }}$ Street detached sidewalk along the east side of the highway between the Clifton Transfer Station and the Peach Tree Shopping Center, likely installed with the commercial development north of the transfer station.

US 6C is a three-lane cross-section without a raised median and it carries enough traffic to make it often difficult for pedestrians to cross except at signalized intersections. Pedestrian crosswalks are located


Bicyclist crossing US 6C near $3^{\text {rd }}$ Street across each leg of the signalized intersections along US 6C. There is a pedestrian-activated signalized crosswalk east of $5^{\text {th }}$ Street, serving the Clifton Elementary School. The curb ramps at the signalized intersections along US 6C are directional ramps with tactile strips.

Pedestrian crosswalks are located across each leg of the signalized intersection at I-70B and 32 Road. However, the traffic signal at I-70B and the Clifton Transfer Station has pedestrian crosswalks only across the south and east legs. The traffic signal on I-70B at the Peach Tree Shopping Center has pedestrian crosswalks only across the north and east legs and has older style, non-directional curb ramps without tactile strips. A nondirectional curb ramp consists of one ramp on each intersection corner that is located at the apex of the corner of the intersection. Users are traveling diagonal to traffic when they enter the street at the bottom of a non-directional ramp.

Along the US 6C corridor, there are numerous existing curb cuts, curb ramps, and sidewalks that do not meet the slope and width standards of the American with Disabilities Act (ADA). This deficiency can make it difficult for people to access the bus stops or travel along the corridor.

Bicycling in the regional Grand Valley area, surrounding the study area, is an important mode of transportation and recreation. There are no existing bicycle facilities, such as trails or bike lanes, within the study area. However, there are several planned bicycle and trail improvements identified in the Clifton-Fruitvale Community Plan. The improvement identified with the highest need within the study area is along US 6C. A bike lane or detached path along US 6C from I-70B to west of 33 Road is also identified as a "high" priority improvement in the Clifton Pedestrian Circulation Study.

## Potential Non-Motorized Travel Demand

Various land uses within the US 6C study area are likely to generate demand for short walking and bicycling trips, as shown in Figure 11. The higher-density residential areas located northwest of the I-70B and US 6C intersection, north of US 6C between I-70B and Lois Street, and south of US 6C between $1^{\text {st }}$ Street and $5^{\text {th }}$ Street are likely generators of pedestrian and bicyclist trips along the US 6C corridor.

Additionally, the businesses and government service facilities within the Peach Tree Shopping Center, the local businesses along US 6C, the US Post Office, and the Clifton Elementary School are destinations to which many residents may walk or ride a bicycle instead of driving. The park-n-ride lots, Route 4 bus stops, and the Clifton Transfer Station are also destinations for pedestrians and bicyclists to access in order to utilize transit or carpooling for longer trips. Because many of the origins and destinations of these walking or bicycling trips are on opposite sides of US 6C, conflicts with vehicles due to limited crossing locations are inevitable.


Source: DEA field observations, November 2014

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## Multimodal Mobility Challenges and Opportunities

Alternative mode travel challenges and opportunities for the study area, focused on the US 6C corridor through downtown Clifton, are summarized below. This summary was developed from the existing conditions data, previous studies, observations during site visits, and input gathered from the involved agencies. These opportunities provide a basis for identifying project needs and developing alternatives that promote safe travel for all roadway users.

- People walk in the US 6C corridor within downtown Clifton to many destinations and for many purposes.
- There are many bicycle skill types using the corridor for different purposes (school children, recreational, commuter).
- Sidewalks are missing along most of US 6C through downtown Clifton.
- Existing sidewalks are narrow and in poor condition.
- Pedestrian and bicycle connections to adjacent land uses from residential areas are not present.

■ It is difficult to walk across the highway because of traffic.
■ Mid-block crossings are typically occurring across US 6C between $2^{\text {nd }}$ Street and $5^{\text {th }}$ Street.

- Pedestrian movements across wide, open property accesses conflict with vehicles accessing adjacent businesses.
- Bicyclists are currently riding on sidewalks or in parking areas along US 6C.
- There are generally no amenities at bus stops within the study area.
- There are limited sidewalk connections to Route 4 bus stops within the study area.


Bicyclist on sidewalk along US 6C at $1^{\text {st }}$ Street

Appendix A Past Plan Information

## Concepts for improving streets walkways, and private

## development in the Clifton Fruitvale area.



Views of landmarks, such as MH Garfield at left are for the Clifton / Fruitvale area

## SKETCH CONCEPTS Ways to improve the community

## landscape.

Sidewalks, walkways, and paths are part of the common-space fabric of a community. Improving how these function cari go a long way to creating more livable, enjoyable neighborhoods. The ability to walk to school, to the store, or to a friend's home easily, unencumbered by hazards, should be a primary goal of any community. All centers of activity such as schools, churches, and shopping areas should be easily and safely accessed by nearby residents.

A corresponding goal is to enhance these community connections with the appropriate landscape elements uch as street trees, landscape, and the appropriat fences or walls. Creating a pleasant, less harsh network of streetscapes can unite communities in a ositive way. Private and public involvement can be oordinated to achieve these goals. Some of thes oals can also be incorporated into bigger future projects and numerous smaller improvements throughout the Ctifton/Fruitvale area.

Special areas such as gateways, important roadways, and historic areas can require special attention to maximize the benefits to the citizens. These in turn can be catalysts for energizing other improvements.

This sketch report identifies some basic guidelines to mprove walkways, streetscapes, landmarks, fences and landscapes. It is hoped that these will aid in public discussion and awareness.

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LaNDSCAPE ARCHITECT
 Friendly walkways, entryways, and
landscaped streets are important community pride and identity elements.

## Concepts for improving streets walkways, and private development in the Clifton Fruitvale area.




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## WALKWAYS SIDEWALKS <br> Low traffic Residential Streets

Pedestrian ways are one of the most important ingredients in livable successful communities. The ability to safely walk to school, walk to your neighbors house, the park, or to the store are fundamental needs. We shouldn't be compelled to drive everywhere or if we do waik, have to negotiate dangerous conditions. Indeed many people are unable to drive or do not have someone to drive them to their destinations. Walkways need to be safe and convenient.
Detached walkways, where the walkway is separated from the street by a tree lawn, is the preferred walkway type when adequate space is available. Attached walks, where the sidewalk is attached to the street curb, is acceptable but somewhat less desirable.

It can also be stated that walkways and sidewalks are aesthetically pleasing. When you drive through a community with generous walkways and street trees it has a welcoming friendly appearance. Neighborhoods without walkways often appear to be unfriendly and isolated.

RIGHT Closeup of the detached walk. This has a classic home town look The tree lawn space between the curb and the walk gives the pedestrian
sofer feeling and creates o space for tree planting. Detached waiks can be five Detached waiks can be five
ft wide ond function pretty well. The tree lawn should be a minimum of 5 fo wide space


DETACHED WALKWAYS

## Concepts for improving streets walkways, and private development in the

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6 ft tall solid cedar fences ore populor inexpensive options that have been overused in he past 30 years. Unfortunotely these:
fences only last about 15-20 years. Along thit arterial roadway the deteriorating fences become a neighborhood landscape blight issue. These are all private fences, some may get replaced others moy not. Whot is most unfortunate is that there is no landscape. the view of the tottered fences.

RIVACY AND SAFETY ARE no a cut and dry issue Privacy needs to be balanced with important visibility issues. Shutting all views o and from back yards does not help build community cohesiveness. Sometimes a more subtle separation is better than a solid fence or wall. There is even some evidence that solid fences ble to see over a fence. Being able to see over a fence o through an open fence can have mportant advantages other than ust aesthetics. wood fence a attenuate noise from the roadway. While it blocks the views of the road, sound leaks though the cracks with little resistance. Nor does dense vegetation attenuate much sound. The most effective noise barriers are tall solid masonry walls or earthen berms such as the ones
wall.

## EDGES, FENCES

 Along roadway edges Fences are used to create separations, to block views and define spaces. When placed along street frontages they often become the dominant landscape element. Most fences are built by property owners to define their property line and to screen the view of the roadway. Sometimes the roadway forms the edge of their back yard sometimes the front yard.Unfortunately a lot of these fences are stark and obtrusive, or just ugly. Often they are erected with out regard to the long term streetscape views. From the roadway side 6 ft tall solid fences convey a image of isolation and rejecting of the public roadway. More often than not there are no guidelines for fences that take the roadway landscape and views into type but also where the fence is located in relation to walkways and the landscape spaces that can make a difference. Guidelines should encourage landscape spaces that encourage landscape spaces that separate the wallinas frem the or wall. Guide use of fences ta 5 ft faller than 5 ft for most frontages.

[^1]Mesa County Planning and


Sketch of low masonry wall. 3-4 ft ht. This cal be either block
or brick or combination of those This can also be effective in or brick or combination of those. This can also be effecter
commercial areas to block views of parking fots or in residential areas where more distant views are desirable.


Tall masonity noise barrier wall olong a limited access highiway,
consisting of concrete block with bands of different colors. If it is absolutely necessary to have a tall wall for sound ottenuation then this is one of the more effective examples. Pilasters and banded colors add interest. Coarse textured surfaces help reduce noise reflection. Some shrub planfing along the face of this wall would sidewalk or landscape strip on this roadside which gives the otherwise attractive wall a somewhot harsh look.
 attenuation and a shiort life span.


ABOVE: landscape zone between parking lot and sidewalk This landscape buffer does a great deal to mitigate the harsh offects of pavements and parking lots in commercial areas. Iree planting need's to be strotegically located so signs are not blocked, This landscape zone should be a minimum of 5 -6 ft wide. Shrub species should not exceed 4 ft in height. Trees need to have a higher canopy to permit views under. branches, to buildings.

## WALLS, LANDSCAPE

 EDGESAlong arterial roadways Masonry walls are the best sound attenuators. For residential area fronting on noisy busy arterial roadways brill ore cone most effective
masonry walls are and arguably the most attractive and arguably the most attractive
solution. The tall 8-10 ft walls shown on photo at lower left are effective on photo at lower left are effective noise barriers. Careful treatment of masonry patterns and colors however, are important design considerations. A big blank wall with no color or refinement can be real negative element as well as an invitation to vandals. Even a low wall shown in the sketch (above left) helps reduce tire noise while not creating a 'canyon' feeling. Th landscape strip mentioned previously is also important for mitigating the harsh effects of a tall wall, reducing dust, and deterring vandalism.
Other edges common to commercial stip areas are parking lot walkway edges. Views of lots of cars, and asphalt pavement can be obtrusive and harsh. A landscape zone with 3-4 ft ht dense shrubs and plants can do a lot to soften those negative views. Flower planting and tree planting are also important. Tree planting should be a little more widely spaced to allow views of stores and signs.

## 1

Masonry walls are the best noise barriers, but need to be designed carefully
Parking lots should have some edge landscape by sidewalks

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Two access points.
Landscape of trees and shrubs around periphery of shrubs ar
parking.
Walkway connections,
Adequate lighting, trash containers

Local storm woter detention may also be possible in these areas. Parking area grading can be designed to accommodate sor
water detention

## PARK AND RIDES

Corporate sponsored
A number of informal parking areas have developed along the I-70 Business Loop, along the adjacent frontage road This the primary arterial entry way for the Clifton / Fruitvale area and these scattered parking areas are a negative visual distraction for such an important roadway. It is suggested here that these park and rides could be legitimized and improved with paving and landscape. Larger regional businesses may sponsor the construction and maintenance and get a sign acknowledging their community contribution.

* Gorporations, maintenance

1 districts, or citizen's groups can be important sponsors of community enhancements


DUMPSTERS
They don't bave to be that ugly
Dumpsters for trash collection are a necessary evil. They need to be in an accessible and often a conspicuous location. $A$ series of beat up containers lining the street can be an eyesore. There are ways though to create a more discrete enclosure with masonry walls or heavy wood fence as shown here.

## Concepts for improving streets walkways, and private development in the Clifton Fruitvale area.

Mesa County Planning and Economic Development
 or pipe
Prank miltenberger

> 1. One idea for improving pedestrian access to this important community node. SCHOOL
An important community node should bave safe pedestrian accessibility
There are currently no continuous walkways that access the Clifton Elementary school from F Road SH 6 . As seen on the photos there are $4-6 \mathrm{ft}$ wide on both the north and south sides of this busy roadway. All and all not a safe pedestrian environment for walking to school. If irrigation ditches can be put into trenches covered with grates ad sidewalks and curbs added it would make an a ig improvement to the pedestrian safety. Amedian a traffic calming feature.

Looking west, south side of F Road near the Clifton lementary School.


## CLIFTON ELEMENTARY

Concepts for improving streets walkways, and private development in the Clifton Fruitvale area.


LEFT: Four lane alternative. This one has a landscaped median and a slight cune in the olignment to add interest and avoid important buildings. Bike lanes are also would be to the sides and backs of buildings thot front close to the street. Once again pedestrian friendly wide sidewalks and tree planting will encourage local would require more land purchase and would be more expensive than the narrower concept below.

## 'F' ROAD DOWNTOWN

## CLIFTON

Between I-70 Loop and Clifton Elementary School
High traffic volumes, intermittent sidewalks, and related problems give this important state and local road an unfriendly feeling. Getting to the post office oan an difficult. Planning for future improvements will cons a foptions. These two sletch concer include some of ops for . pestrian accessibility. Handling the most traffic
 volume in the safest way is the highest priority.


ABOVE: Project area


IEFT: two lane alternative, with center left turn lane and on-street parking. This alignment will require only minimal right-of-woy land purchase. Wing also part of this tre planting are also part of this
scheme. Note the 'chokers' constrictions, of the intersections. These are intended to enhance the important pedestrian crossings, on
act as traffic calming feotures.

Old downtown should be a safer more friendly place to visit or to do business.

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## Appendix B Traffic Count Data

| EB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start |  | Cars \& | 2 Axle |  | 2 Axle | 3 Axle | 4 Axle | <5 AxI | 5 Axle | >6 AxI | <6 AxI | 6 Axle | >6 AxI |  |
| Time | Bikes | Trailers | Long | Buses | 6 Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | Total |
| 11/12/14 | 0 | 10 | 1 | 0 | 0 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 16 |
| 01:00 | 0 | 8 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 11 |
| 02:00 | 0 | 14 | 4 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 25 |
| 03:00 | 1 | 28 | 5 | 0 | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 39 |
| 04:00 | 1 | 108 | 30 | 1 | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 147 |
| 05:00 | 6 | 275 | 63 | 0 | 4 | 1 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 358 |
| 06:00 | 3 | 282 | 70 | 1 | 4 | 5 | 0 | 3 | 6 | 1 | 0 | 0 | 0 | 375 |
| 07:00 | 8 | 185 | 30 | 0 | 4 | 1 | 0 | 1 | 14 | 0 | 0 | 0 | 0 | 243 |
| 08:00 | 5 | 169 | 22 | 0 | 5 | 5 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 217 |
| 09:00 | 2 | 180 | 17 | 0 | 3 | 4 | 0 | 1 | 9 | 2 | 0 | 0 | 0 | 218 |
| 10:00 | 2 | 152 | 19 | 0 | 4 | 9 | 1 | 1 | 13 | 0 | 0 | 0 | 0 | 201 |
| 11:00 | 2 | 139 | 17 | 0 | 1 | 2 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 170 |
| 12 PM | 3 | 141 | 8 | 1 | 3 | 0 | 0 | 1 | 7 | 1 | 0 | 0 | 1 | 166 |
| 13:00 | 1 | 125 | 10 | 0 | 2 | 3 | 1 | 2 | 5 | 0 | 0 | 0 | 0 | 149 |
| 14:00 | 1 | 159 | 13 | 0 | 2 | 2 | 0 | 1 | 7 | 1 | 0 | 0 | 0 | 186 |
| 15:00 | 1 | 178 | 19 | 0 | 2 | 1 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 205 |
| 16:00 | 7 | 229 | 19 | 0 | 2 | 0 | 0 | 1 | 6 | 1 | 0 | 0 | 1 | 266 |
| 17:00 | 4 | 179 | 13 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 200 |
| 18:00 | 1 | 99 | 5 | 0 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 112 |
| 19:00 | 2 | 60 | 4 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 71 |
| 20:00 | 2 | 62 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 72 |
| 21:00 | 0 | 28 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 32 |
| 22:00 | 0 | 11 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 23:00 | 0 | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 9 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 52 | 2828 | 377 | 3 | 46 | 45 | 2 | 18 | 119 | 7 | 0 | 0 | 4 | 3501 |
| Percent | 1.5\% | 80.8\% | 10.8\% | 0.1\% | 1.3\% | 1.3\% | 0.1\% | 0.5\% | 3.4\% | 0.2\% | 0.0\% | 0.0\% | 0.1\% |  |
| AM Peak | 07:00 | 06:00 | 06:00 | 04:00 | 08:00 | 10:00 | 10:00 | 06:00 | 07:00 | 09:00 |  |  | 08:00 | 06:00 |
| Vol. | 8 | 282 | 70 | 1 | 5 | 9 | 1 | 3 | 14 | 2 |  |  | 1 | 375 |
| PM Peak | 16:00 | 16:00 | 15:00 | 12:00 | 12:00 | 13:00 | 13:00 | 13:00 | 12:00 | 12:00 |  |  | 12:00 | 16:00 |
| Vol. | 7 | 229 | 19 | 1 | 3 | 3 | 1 | 2 | 7 | 1 |  |  | 1 | 266 |


| EB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start |  | Cars \& | 2 Axle |  | 2 Axle | 3 Axle | 4 Axle | <5 AxI | 5 Axle | >6 AxI | <6 AxI | 6 Axle | >6 AxI |  |
| Time | Bikes | Trailers | Long | Buses | 6 Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | Total |
| 11/13/14 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 01:00 | 0 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 11 |
| 02:00 | 1 | 12 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 18 |
| 03:00 | 0 | 32 | 6 | 0 | 2 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 45 |
| 04:00 | 2 | 101 | 23 | 0 | 3 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 134 |
| 05:00 | 6 | 271 | 64 | 0 | 6 | 3 | 0 | 2 | 5 | 0 | 0 | 0 | 0 | 357 |
| 06:00 | 1 | 291 | 56 | 0 | 4 | 3 | 0 | 1 | 11 | 2 | 0 | 0 | 0 | 369 |
| 07:00 | 2 | 176 | 27 | 0 | 7 | 2 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 225 |
| 08:00 | 2 | 156 | 17 | 0 | 4 | 1 | 0 | 1 | 8 | 0 | 0 | 0 | 1 | 190 |
| 09:00 | 2 | 151 | 16 | 0 | 6 | 1 | 0 | 1 | 8 | 3 | 0 | 0 | 1 | 189 |
| 10:00 | 2 | 138 | 13 | 0 | 2 | 1 | 0 | 1 | 9 | 0 | 0 | 0 | 0 | 166 |
| 11:00 | 2 | 141 | 6 | 0 | 0 | 5 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 166 |
| 12 PM | 4 | 172 | 12 | 0 | 2 | 5 | 0 | 1 | 14 | 0 | 0 | 0 | 0 | 210 |
| 13:00 | 3 | 158 | 15 | 0 | 4 | 3 | 0 | 1 | 11 | 1 | 0 | 0 | 0 | 196 |
| 14:00 | 4 | 156 | 7 | 0 | 1 | 3 | 0 | 0 | 10 | 1 | 0 | 0 | 0 | 182 |
| 15:00 | 2 | 179 | 20 | 0 | 2 | 0 | 0 | 1 | 10 | 0 | 0 | 0 | 0 | 214 |
| 16:00 | 6 | 241 | 18 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 267 |
| 17:00 | 8 | 176 | 11 | 0 | 1 | 2 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 203 |
| 18:00 | 7 | 84 | 4 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 99 |
| 19:00 | 0 | 54 | 6 | 0 | 1 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 67 |
| 20:00 | 1 | 48 | 3 | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 57 |
| 21:00 | 1 | 35 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 40 |
| 22:00 | 2 | 22 | 4 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 33 |
| 23:00 | 1 | 15 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 19 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 60 | 2821 | 335 | 0 | 53 | 33 | 0 | 11 | 137 | 11 | 0 | 0 | 2 | 3463 |
| Percent | 1.7\% | 81.5\% | 9.7\% | 0.0\% | 1.5\% | 1.0\% | 0.0\% | 0.3\% | 4.0\% | 0.3\% | 0.0\% | 0.0\% | 0.1\% |  |
| AM Peak | 05:00 | 06:00 | 05:00 |  | 07:00 | 11:00 |  | 05:00 | 11:00 | 09:00 |  |  | 08:00 | 06:00 |
| Vol. | 6 | 291 | 64 |  | 7 | 5 |  | 2 | 12 | 3 |  |  | 1 | 369 |
| PM Peak | 17:00 | 16:00 | 15:00 |  | 13:00 | 12:00 |  | 19:00 | 12:00 | 17:00 |  |  |  | 16:00 |
| Vol. | 8 | 241 | 20 |  | 4 | 5 |  | 2 | 14 | 2 |  |  |  | 267 |
| Grand Total | 112 | 5649 | 712 | 3 | 99 | 78 | 2 | 29 | 256 | 18 | 0 | 0 | 6 | 6964 |
| Percent | 1.6\% | 81.1\% | 10.2\% | 0.0\% | 1.4\% | 1.1\% | 0.0\% | 0.4\% | 3.7\% | 0.3\% | 0.0\% | 0.0\% | 0.1\% |  |


| WB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start |  | Cars \& | 2 Axle |  | 2 Axle | 3 Axle | 4 Axle | <5 AxI | 5 Axle | >6 AxI | <6 AxI | 6 Axle | >6 AxI |  |
| Time | Bikes | Trailers | Long | Buses | 6 Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | Total |
| 11/12/14 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 01:00 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 02:00 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 10 |
| 03:00 | 0 | 13 | 3 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 20 |
| 04:00 | 1 | 23 | 10 | 0 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 43 |
| 05:00 | 0 | 70 | 28 | 0 | 21 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 121 |
| 06:00 | 0 | 154 | 85 | 0 | 35 | 0 | 0 | 7 | 3 | 1 | 1 | 0 | 0 | 286 |
| 07:00 | 1 | 282 | 88 | 1 | 43 | 3 | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 427 |
| 08:00 | 0 | 135 | 44 | 1 | 15 | 1 | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 204 |
| 09:00 | 0 | 99 | 29 | 1 | 11 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 143 |
| 10:00 | 0 | 72 | 33 | 0 | 19 | 1 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 131 |
| 11:00 | 0 | 88 | 34 | 2 | 23 | 0 | 0 | 2 | 4 | 2 | 0 | 0 | 0 | 155 |
| 12 PM | 0 | 62 | 32 | 0 | 19 | 1 | 0 | 6 | 4 | 0 | 0 | 0 | 0 | 124 |
| 13:00 | 1 | 73 | 42 | 1 | 13 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 134 |
| 14:00 | 0 | 105 | 31 | 2 | 13 | 3 | 0 | 6 | 1 | 0 | 0 | 1 | 0 | 162 |
| 15:00 | 0 | 83 | 44 | 2 | 19 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 153 |
| 16:00 | 0 | 119 | 56 | 0 | 17 | 0 | 0 | 3 | 5 | 0 | 0 | 0 | 0 | 200 |
| 17:00 | 0 | 106 | 46 | 0 | 22 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 176 |
| 18:00 | 0 | 75 | 38 | 0 | 15 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 132 |
| 19:00 | 0 | 34 | 15 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| 20:00 | 0 | 39 | 16 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 61 |
| 21:00 | 0 | 25 | 8 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 22:00 | 0 | 17 | 5 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 24 |
| 23:00 | 0 | 9 | 3 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 16 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 3 | 1697 | 695 | 10 | 318 | 11 | 0 | 45 | 44 | 3 | 1 | 2 | 0 | 2829 |
| Percent | 0.1\% | 60.0\% | 24.6\% | 0.4\% | 11.2\% | 0.4\% | 0.0\% | 1.6\% | 1.6\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% |  |
| AM Peak | 04:00 | 07:00 | 07:00 | 11:00 | 07:00 | 07:00 |  | 06:00 | 08:00 | 11:00 | 06:00 |  |  | 07:00 |
| Vol. | 1 | 282 | 88 | 2 | 43 | 3 |  | 7 | 6 | 2 | 1 |  |  | 427 |
| PM Peak | 13:00 | 16:00 | 16:00 | 14:00 | 17:00 | 14:00 |  | 12:00 | 16:00 |  |  | 13:00 |  | 16:00 |
| Vol. | 1 | 119 | 56 | 2 | 22 | 3 |  | 6 | 5 |  |  | 1 |  | 200 |


| WB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Bikes | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle <br> Single | 4 Axle Single | $<5 \mathrm{AxI}$ <br> Double | 5 Axle Double | $>6 \mathrm{AxI}$ Double | $\begin{array}{r} <6 \mathrm{AxI} \\ \text { Multi } \end{array}$ | 6 Axle Multi | $\begin{array}{r} >6 \mathrm{AxI} \\ \text { Multi } \end{array}$ | Total |
| 11/13/14 | 1 | 4 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 01:00 | 0 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 8 |
| 02:00 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 03:00 | 0 | 8 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 04:00 | 0 | 27 | 10 | 0 | 8 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 47 |
| 05:00 | 0 | 72 | 31 | 0 | 22 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 128 |
| 06:00 | 0 | 146 | 81 | 0 | 36 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 0 | 270 |
| 07:00 | 0 | 272 | 82 | 1 | 30 | 1 | 0 | 7 | 4 | 0 | 0 | 0 | 0 | 397 |
| 08:00 | 1 | 159 | 47 | 0 | 10 | 5 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 229 |
| 09:00 | 0 | 102 | 18 | 1 | 13 | 1 | 0 | 3 | 2 | 1 | 0 | 1 | 0 | 142 |
| 10:00 | 1 | 86 | 38 | 2 | 18 | 1 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 153 |
| 11:00 | 0 | 105 | 24 | 2 | 12 | 1 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 154 |
| 12 PM | 0 | 96 | 30 | 1 | 13 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 145 |
| 13:00 | 1 | 87 | 24 | 0 | 17 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 133 |
| 14:00 | 1 | 97 | 28 | 1 | 9 | 5 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 147 |
| 15:00 | 1 | 93 | 35 | 2 | 14 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 148 |
| 16:00 | 0 | 105 | 46 | 2 | 16 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 174 |
| 17:00 | 0 | 113 | 33 | 0 | 35 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 188 |
| 18:00 | 0 | 86 | 24 | 1 | 17 | 0 | 0 | 4 | 1 | 0 | 0 | 1 | 0 | 134 |
| 19:00 | 0 | 48 | 19 | 0 | 9 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 78 |
| 20:00 | 0 | 35 | 13 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 52 |
| 21:00 | 0 | 30 | 7 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 42 |
| 22:00 | 0 | 24 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 29 |
| 23:00 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 6 | 1816 | 602 | 14 | 288 | 17 | 1 | 57 | 32 | 3 | 0 | 2 | 0 | 2838 |
| Percent | 0.2\% | 64.0\% | 21.2\% | 0.5\% | 10.1\% | 0.6\% | 0.0\% | 2.0\% | 1.1\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% |  |
| AM Peak | 00:00 | 07:00 | 07:00 | 10:00 | 06:00 | 08:00 |  | 07:00 | 11:00 | 04:00 |  | 09:00 |  | 07:00 |
| Vol. | 1 | 272 | 82 | 2 | 36 | 5 |  | 7 | 5 | 1 |  | 1 |  | 397 |
| PM Peak | 13:00 | 17:00 | 16:00 | 15:00 | 17:00 | 14:00 | 17:00 | 12:00 | 16:00 |  |  | 18:00 |  | 17:00 |
| Vol. | 1 | 113 | 46 | 2 | 35 | 5 | 1 | 5 | 3 |  |  | 1 |  | 188 |
| Grand Total | 9 | 3513 | 1297 | 24 | 606 | 28 | 1 | 102 | 76 | 6 | 1 | 4 | 0 | 5667 |
| Percent | 0.2\% | 62.0\% | 22.9\% | 0.4\% | 10.7\% | 0.5\% | 0.0\% | 1.8\% | 1.3\% | 0.1\% | 0.0\% | 0.1\% | 0.0\% |  |


| EB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start |  | Cars \& | 2 Axle |  | 2 Axle | 3 Axle | 4 Axle | <5 AxI | 5 Axle | >6 AxI | <6 AxI | 6 Axle | >6 AxI |  |
| Time | Bikes | Trailers | Long | Buses | 6 Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | Total |
| 11/12/14 | 0 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 01:00 | 0 | 6 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 02:00 | 0 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 03:00 | 0 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 04:00 | 0 | 19 | 0 | 0 | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 25 |
| 05:00 | 0 | 38 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 06:00 | 0 | 100 | 10 | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119 |
| 07:00 | 2 | 146 | 8 | 1 | 8 | 1 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 170 |
| 08:00 | 1 | 108 | 14 | 0 | 16 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 141 |
| 09:00 | 2 | 110 | 12 | 1 | 13 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 143 |
| 10:00 | 1 | 93 | 12 | 2 | 10 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 120 |
| 11:00 | 0 | 115 | 13 | 1 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 148 |
| 12 PM | 1 | 131 | 9 | 4 | 10 | 2 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 162 |
| 13:00 | 3 | 121 | 17 | 0 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 152 |
| 14:00 | 1 | 137 | 19 | 3 | 12 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 176 |
| 15:00 | 1 | 220 | 17 | 4 | 14 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 257 |
| 16:00 | 2 | 277 | 14 | 1 | 17 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 314 |
| 17:00 | 0 | 228 | 101 | 0 | 82 | 2 | 0 | 6 | 0 | 1 | 0 | 0 | 0 | 420 |
| 18:00 | 0 | 114 | 36 | 0 | 34 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 185 |
| 19:00 | 0 | 66 | 32 | 0 | 14 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 114 |
| 20:00 | 0 | 61 | 31 | 1 | 25 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 119 |
| 21:00 | 0 | 49 | 21 | 1 | 18 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 90 |
| 22:00 | 0 | 27 | 12 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 23:00 | 0 | 11 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 14 | 2212 | 389 | 19 | 327 | 15 | 0 | 22 | 11 | 2 | 0 | 0 | 0 | 3011 |
| Percent | 0.5\% | 73.5\% | 12.9\% | 0.6\% | 10.9\% | 0.5\% | 0.0\% | 0.7\% | 0.4\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% |  |
| AM Peak | 07:00 | 07:00 | 08:00 | 10:00 | 11:00 | 06:00 |  | 09:00 | 07:00 |  |  |  |  | 07:00 |
| Vol. | 2 | 146 | 14 | 2 | 19 | 3 |  | 4 | 2 |  |  |  |  | 170 |
| PM Peak | 13:00 | 16:00 | 17:00 | 12:00 | 17:00 | 14:00 |  | 17:00 | 12:00 | 17:00 |  |  |  | 17:00 |
| Vol. | 3 | 277 | 101 | 4 | 82 | 3 |  | 6 | 2 | 1 |  |  |  | 420 |


| EB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start |  | Cars \& | 2 Axle |  | 2 Axle | 3 Axle | 4 Axle | <5 AxI | 5 Axle | >6 AxI | <6 AxI | 6 Axle | >6 AxI |  |
| Time | Bikes | Trailers | Long | Buses | 6 Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | Total |
| 11/13/14 | 0 | 9 | 10 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 21 |
| 01:00 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 02:00 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 03:00 | 0 | 5 | 4 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 04:00 | 0 | 6 | 5 | 1 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 05:00 | 0 | 21 | 12 | 0 | 18 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 52 |
| 06:00 | 1 | 47 | 30 | 0 | 39 | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 123 |
| 07:00 | 0 | 77 | 41 | 0 | 39 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 160 |
| 08:00 | 0 | 39 | 24 | 0 | 33 | 2 | 0 | 2 | 5 | 0 | 0 | 0 | 0 | 105 |
| 09:00 | 0 | 90 | 12 | 2 | 14 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 121 |
| 10:00 | 0 | 98 | 15 | 3 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 |
| 11:00 | 0 | 116 | 18 | 0 | 11 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 150 |
| 12 PM | 0 | 138 | 15 | 2 | 17 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 177 |
| 13:00 | 2 | 123 | 17 | 0 | 11 | 4 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 160 |
| 14:00 | 4 | 162 | 17 | 4 | 18 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 209 |
| 15:00 | 1 | 183 | 56 | 1 | 45 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 289 |
| 16:00 | 0 | 223 | 30 | 0 | 23 | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 283 |
| 17:00 | 1 | 328 | 60 | 2 | 33 | 3 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 433 |
| 18:00 | 0 | 141 | 20 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 174 |
| 19:00 | 0 | 96 | 8 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| 20:00 | 1 | 74 | 13 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 94 |
| 21:00 | 0 | 69 | 13 | 0 | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 90 |
| 22:00 | 0 | 33 | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| 23:00 | 0 | 29 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 10 | 2111 | 431 | 17 | 362 | 23 | 1 | 26 | 16 | 1 | 0 | 0 | 0 | 2998 |
| Percent | 0.3\% | 70.4\% | 14.4\% | 0.6\% | 12.1\% | 0.8\% | 0.0\% | 0.9\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |
| AM Peak | 06:00 | 11:00 | 07:00 | 10:00 | 06:00 | 11:00 |  | 08:00 | 08:00 | 07:00 |  |  |  | 07:00 |
| Vol. | 1 | 116 | 41 | 3 | 39 | 4 |  | 2 | 5 | 1 |  |  |  | 160 |
| PM Peak | 14:00 | 17:00 | 17:00 | 14:00 | 15:00 | 13:00 | 14:00 | 17:00 | 17:00 |  |  |  |  | 17:00 |
| Vol. | 4 | 328 | 60 | 4 | 45 | 4 | 1 | 4 | 2 |  |  |  |  | 433 |
| Grand Total | 24 | 4323 | 820 | 36 | 689 | 38 | 1 | 48 | 27 | 3 | 0 | 0 | 0 | 6009 |
| Percent | 0.4\% | 71.9\% | 13.6\% | 0.6\% | 11.5\% | 0.6\% | 0.0\% | 0.8\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |


| WB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start |  | Cars \& | 2 Axle |  | 2 Axle | 3 Axle | 4 Axle | <5 AxI | 5 Axle | >6 AxI | <6 AxI | 6 Axle | >6 AxI |  |
| Time | Bikes | Trailers | Long | Buses | 6 Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | Total |
| 11/12/14 | 0 | 7 | 4 | 0 | 2 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 17 |
| 01:00 | 0 | 5 | 4 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 1 | 1 | 0 | 15 |
| 02:00 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 10 |
| 03:00 | 0 | 3 | 5 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| 04:00 | 0 | 8 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 17 |
| 05:00 | 0 | 27 | 16 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 49 |
| 06:00 | 0 | 64 | 25 | 2 | 9 | 0 | 0 | 1 | 4 | 0 | 1 | 1 | 0 | 107 |
| 07:00 | 0 | 140 | 50 | 2 | 7 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 205 |
| 08:00 | 1 | 108 | 35 | 0 | 7 | 4 | 0 | 1 | 11 | 0 | 1 | 1 | 0 | 169 |
| 09:00 | 0 | 91 | 36 | 1 | 10 | 1 | 0 | 4 | 7 | 0 | 0 | 0 | 0 | 150 |
| 10:00 | 0 | 111 | 44 | 0 | 17 | 1 | 0 | 3 | 5 | 1 | 0 | 0 | 0 | 182 |
| 11:00 | 1 | 80 | 52 | 0 | 17 | 3 | 0 | 8 | 10 | 0 | 0 | 0 | 0 | 171 |
| 12 PM | 1 | 110 | 44 | 1 | 13 | 0 | 0 | 6 | 9 | 1 | 0 | 0 | 0 | 185 |
| 13:00 | 0 | 85 | 59 | 0 | 18 | 2 | 0 | 3 | 13 | 1 | 0 | 0 | 0 | 181 |
| 14:00 | 1 | 122 | 64 | 5 | 31 | 3 | 0 | 5 | 7 | 1 | 0 | 0 | 0 | 239 |
| 15:00 | 0 | 133 | 104 | 0 | 26 | 1 | 0 | 4 | 12 | 0 | 1 | 0 | 1 | 282 |
| 16:00 | 0 | 147 | 154 | 2 | 35 | 2 | 0 | 4 | 13 | 2 | 0 | 1 | 0 | 360 |
| 17:00 | 0 | 202 | 179 | 0 | 39 | 4 | 0 | 2 | 10 | 0 | 0 | 0 | 0 | 436 |
| 18:00 | 1 | 146 | 132 | 0 | 34 | 1 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 323 |
| 19:00 | 0 | 66 | 60 | 1 | 4 | 1 | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 140 |
| 20:00 | 1 | 52 | 16 | 0 | 6 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 79 |
| 21:00 | 0 | 29 | 20 | 0 | 4 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 56 |
| 22:00 | 0 | 23 | 9 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 35 |
| 23:00 | 0 | 19 | 7 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 31 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 6 | 1782 | 1127 | 14 | 292 | 25 | 0 | 50 | 137 | 6 | 5 | 6 | 1 | 3451 |
| Percent | 0.2\% | 51.6\% | 32.7\% | 0.4\% | 8.5\% | 0.7\% | 0.0\% | 1.4\% | 4.0\% | 0.2\% | 0.1\% | 0.2\% | 0.0\% |  |
| AM Peak | 08:00 | 07:00 | 11:00 | 06:00 | 10:00 | 08:00 |  | 11:00 | 08:00 | 10:00 | 01:00 | 01:00 |  | 07:00 |
| Vol. | 1 | 140 | 52 | 2 | 17 | 4 |  | 8 | 11 | 1 | 1 | 1 |  | 205 |
| PM Peak | 12:00 | 17:00 | 17:00 | 14:00 | 17:00 | 17:00 |  | 12:00 | 13:00 | 16:00 | 15:00 | 16:00 | 15:00 | 17:00 |
| Vol. | 1 | 202 | 179 | 5 | 39 | 4 |  | 6 | 13 | 2 | 1 | 1 | 1 | 436 |


| WB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Bikes | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5 \mathrm{AxI}$ Double | 5 Axle Double | $>6 \mathrm{AxI}$ <br> Double | $<6 \mathrm{AxI}$ <br> Multi | 6 Axle Multi | $\begin{array}{r} >6 \mathrm{AxI} \\ \text { Multi } \end{array}$ | Total |
| 11/13/14 | 0 | 7 | 4 | 0 | 2 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 19 |
| 01:00 | 0 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 14 |
| 02:00 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 6 |
| 03:00 | 1 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 7 |
| 04:00 | 0 | 10 | 5 | 1 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 21 |
| 05:00 | 0 | 41 | 15 | 1 | 4 | 0 | 0 | 1 | 7 | 1 | 0 | 2 | 0 | 72 |
| 06:00 | 0 | 54 | 19 | 1 | 12 | 1 | 0 | 1 | 4 | 0 | 0 | 1 | 0 | 93 |
| 07:00 | 0 | 127 | 41 | 1 | 5 | 0 | 0 | 1 | 10 | 0 | 0 | 2 | 0 | 187 |
| 08:00 | 0 | 94 | 27 | 0 | 5 | 1 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 137 |
| 09:00 | 0 | 108 | 28 | 0 | 7 | 0 | 0 | 2 | 13 | 0 | 0 | 1 | 0 | 159 |
| 10:00 | 0 | 96 | 43 | 0 | 10 | 3 | 0 | 1 | 12 | 0 | 0 | 0 | 0 | 165 |
| 11:00 | 1 | 114 | 48 | 0 | 6 | 5 | 0 | 3 | 18 | 0 | 0 | 0 | 0 | 195 |
| 12 PM | 0 | 93 | 54 | 1 | 8 | 3 | 0 | 2 | 9 | 0 | 0 | 0 | 0 | 170 |
| 13:00 | 1 | 120 | 53 | 0 | 8 | 1 | 0 | 4 | 6 | 2 | 0 | 0 | 0 | 195 |
| 14:00 | 0 | 113 | 65 | 1 | 6 | 6 | 0 | 4 | 8 | 1 | 0 | 0 | 0 | 204 |
| 15:00 | 0 | 116 | 89 | 0 | 15 | 1 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 229 |
| 16:00 | 1 | 162 | 133 | 3 | 19 | 2 | 0 | 3 | 7 | 0 | 0 | 0 | 0 | 330 |
| 17:00 | 2 | 157 | 166 | 1 | 27 | 2 | 0 | 2 | 7 | 1 | 0 | 1 | 0 | 366 |
| 18:00 | 0 | 139 | 146 | 0 | 16 | 3 | 0 | 4 | 10 | 1 | 0 | 0 | 0 | 319 |
| 19:00 | 1 | 119 | 65 | 2 | 5 | 2 | 0 | 1 | 11 | 1 | 0 | 0 | 0 | 207 |
| 20:00 | 0 | 57 | 15 | 1 | 3 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 84 |
| 21:00 | 0 | 41 | 22 | 0 | 7 | 0 | 0 | 2 | 7 | 0 | 0 | 0 | 0 | 79 |
| 22:00 | 0 | 22 | 14 | 0 | 4 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 45 |
| 23:00 | 0 | 11 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 18 |
| Day Total | 7 | 1815 | 1062 | 13 | 172 | 31 | 0 | 33 | 172 | 8 | 1 | 7 | 0 | 3321 |
| Percent | 0.2\% | 54.7\% | 32.0\% | 0.4\% | 5.2\% | 0.9\% | 0.0\% | 1.0\% | 5.2\% | 0.2\% | 0.0\% | 0.2\% | 0.0\% |  |
| AM Peak | 03:00 | 07:00 | 11:00 | 04:00 | 06:00 | 11:00 |  | 11:00 | 11:00 | 05:00 | 04:00 | 05:00 |  | 11:00 |
| Vol. | 1 | 127 | 48 | 1 | 12 | 5 |  | 3 | 18 | 1 | 1 | 2 |  | 195 |
| PM Peak | 17:00 | 16:00 | 17:00 | 16:00 | 17:00 | 14:00 |  | 13:00 | 19:00 | 13:00 |  | 17:00 |  | 17:00 |
| Vol. | 2 | 162 | 166 | 3 | 27 | 6 |  | 4 | 11 | 2 |  | 1 |  | 366 |
| Grand <br> Total | 13 | 3597 | 2189 | 27 | 464 | 56 | 0 | 83 | 309 | 14 | 6 | 13 | 1 | 6772 |
| Percent | 0.2\% | 53.1\% | 32.3\% | 0.4\% | 6.9\% | 0.8\% | 0.0\% | 1.2\% | 4.6\% | 0.2\% | 0.1\% | 0.2\% | 0.0\% |  |


| SB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start |  | Cars \& | 2 Axle |  | 2 Axle | 3 Axle | 4 Axle | <5 AxI | 5 Axle | >6 AxI | <6 AxI | 6 Axle | >6 AxI |  |
| Time | Bikes | Trailers | Long | Buses | 6 Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | Total |
| 11/12/14 | 3 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 37 |
| 01:00 | 0 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 26 |
| 02:00 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 03:00 | 0 | 18 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 23 |
| 04:00 | 0 | 28 | 4 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 35 |
| 05:00 | 3 | 83 | 7 | 0 | 2 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 100 |
| 06:00 | 10 | 176 | 13 | 0 | 2 | 3 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 211 |
| 07:00 | 18 | 315 | 17 | 0 | 4 | 7 | 0 | 2 | 6 | 0 | 0 | 0 | 1 | 370 |
| 08:00 | 13 | 262 | 15 | 0 | 1 | 5 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 310 |
| 09:00 | 11 | 249 | 21 | 0 | 4 | 2 | 0 | 3 | 9 | 1 | 0 | 0 | 0 | 300 |
| 10:00 | 9 | 245 | 19 | 0 | 4 | 3 | 1 | 0 | 9 | 1 | 0 | 0 | 1 | 292 |
| 11:00 | 6 | 259 | 25 | 0 | 3 | 4 | 0 | 6 | 13 | 0 | 0 | 0 | 0 | 316 |
| 12 PM | 7 | 293 | 21 | 0 | 2 | 2 | 0 | 2 | 14 | 1 | 0 | 0 | 1 | 343 |
| 13:00 | 7 | 281 | 24 | 0 | 3 | 4 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 335 |
| 14:00 | 5 | 315 | 40 | 0 | 4 | 5 | 0 | 2 | 8 | 1 | 0 | 0 | 0 | 380 |
| 15:00 | 13 | 437 | 50 | 0 | 4 | 3 | 0 | 2 | 15 | 1 | 0 | 0 | 1 | 526 |
| 16:00 | 11 | 514 | 69 | 0 | 4 | 4 | 0 | 2 | 13 | 4 | 1 | 0 | 0 | 622 |
| 17:00 | 28 | 699 | 57 | 0 | 1 | 7 | 0 | 1 | 7 | 1 | 1 | 0 | 1 | 803 |
| 18:00 | 14 | 409 | 46 | 0 | 1 | 2 | 0 | 5 | 9 | 0 | 1 | 0 | 0 | 487 |
| 19:00 | 4 | 215 | 20 | 1 | 1 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 248 |
| 20:00 | 5 | 184 | 7 | 0 | 2 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 202 |
| 21:00 | 8 | 122 | 8 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 141 |
| 22:00 | 2 | 71 | 4 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 80 |
| 23:00 | 1 | 42 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 49 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 178 | 5283 | 474 | 1 | 47 | 56 | 1 | 29 | 165 | 11 | 3 | 0 | 5 | 6253 |
| Percent | 2.8\% | 84.5\% | 7.6\% | 0.0\% | 0.8\% | 0.9\% | 0.0\% | 0.5\% | 2.6\% | 0.2\% | 0.0\% | 0.0\% | 0.1\% |  |
| AM Peak | 07:00 | 07:00 | 11:00 |  | 07:00 | 07:00 | 10:00 | 11:00 | 08:00 | 05:00 |  |  | 07:00 | 07:00 |
| Vol. | 18 | 315 | 25 |  | 4 | 7 | 1 | 6 | 14 | 1 |  |  | 1 | 370 |
| PM Peak | 17:00 | 17:00 | 16:00 | 19:00 | 14:00 | 17:00 |  | 18:00 | 13:00 | 16:00 | 16:00 |  | 12:00 | 17:00 |
| Vol. | 28 | 699 | 69 | 1 | 4 | 7 |  | 5 | 16 | 4 | 1 |  | 1 | 803 |


| SB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start |  | Cars \& | 2 Axle |  | 2 Axle | 3 Axle | 4 Axle | <5 AxI | 5 Axle | >6 AxI | <6 AxI | 6 Axle | >6 AxI |  |
| Time | Bikes | Trailers | Long | Buses | 6 Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | Total |
| 11/13/14 | 1 | 25 | 2 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 32 |
| 01:00 | 0 | 20 | 1 | 0 | 2 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 28 |
| 02:00 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 8 |
| 03:00 | 0 | 11 | 2 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 16 |
| 04:00 | 0 | 33 | 3 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 41 |
| 05:00 | 1 | 97 | 12 | 0 | 4 | 0 | 1 | 3 | 6 | 1 | 0 | 0 | 0 | 125 |
| 06:00 | 3 | 176 | 17 | 0 | 5 | 3 | 0 | 2 | 9 | 0 | 0 | 0 | 0 | 215 |
| 07:00 | 6 | 306 | 21 | 0 | 3 | 3 | 0 | 3 | 10 | 0 | 0 | 0 | 0 | 352 |
| 08:00 | 5 | 214 | 19 | 0 | 3 | 4 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 255 |
| 09:00 | 5 | 232 | 16 | 0 | 2 | 1 | 0 | 2 | 17 | 2 | 0 | 0 | 1 | 278 |
| 10:00 | 2 | 233 | 27 | 0 | 3 | 7 | 0 | 1 | 10 | 0 | 0 | 0 | 0 | 283 |
| 11:00 | 10 | 278 | 24 | 0 | 0 | 11 | 0 | 2 | 13 | 0 | 0 | 0 | 1 | 339 |
| 12 PM | 5 | 283 | 34 | 0 | 3 | 4 | 0 | 1 | 5 | 0 | 1 | 1 | 0 | 337 |
| 13:00 | 5 | 289 | 35 | 0 | 1 | 5 | 0 | 5 | 11 | 1 | 0 | 0 | 2 | 354 |
| 14:00 | 5 | 323 | 31 | 0 | 7 | 8 | 0 | 4 | 8 | 1 | 0 | 0 | 0 | 387 |
| 15:00 | 10 | 444 | 45 | 0 | 5 | 4 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 515 |
| 16:00 | 18 | 487 | 45 | 0 | 5 | 8 | 0 | 4 | 7 | 0 | 0 | 0 | 1 | 575 |
| 17:00 | 12 | 632 | 84 | 0 | 3 | 8 | 0 | 5 | 10 | 0 | 0 | 0 | 0 | 754 |
| 18:00 | 2 | 383 | 65 | 0 | 2 | 6 | 0 | 3 | 12 | 0 | 0 | 0 | 0 | 473 |
| 19:00 | 4 | 226 | 48 | 1 | 0 | 2 | 0 | 1 | 12 | 1 | 0 | 0 | 1 | 296 |
| 20:00 | 0 | 154 | 13 | 0 | 3 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 176 |
| 21:00 | 3 | 135 | 20 | 0 | 3 | 1 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 170 |
| 22:00 | 2 | 71 | 6 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 84 |
| 23:00 | 2 | 45 | 4 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 55 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 101 | 5103 | 574 | 1 | 62 | 76 | 1 | 37 | 179 | 6 | 1 | 1 | 6 | 6148 |
| Percent | 1.6\% | 83.0\% | 9.3\% | 0.0\% | 1.0\% | 1.2\% | 0.0\% | 0.6\% | 2.9\% | 0.1\% | 0.0\% | 0.0\% | 0.1\% |  |
| AM Peak | 11:00 | 07:00 | 10:00 |  | 06:00 | 11:00 | 05:00 | 05:00 | 09:00 | 09:00 |  |  | 09:00 | 07:00 |
| Vol. | 10 | 306 | 27 |  | 5 | 11 | 1 | 3 | 17 | 2 |  |  | 1 | 352 |
| PM Peak | 16:00 | 17:00 | 17:00 | 19:00 | 14:00 | 14:00 |  | 13:00 | 18:00 | 13:00 | 12:00 | 12:00 | 13:00 | 17:00 |
| Vol. | 18 | 632 | 84 | 1 | 7 | 8 |  | 5 | 12 | 1 | 1 | 1 | 2 | 754 |
| Grand Total | 279 | 10386 | 1048 | 2 | 109 | 132 | 2 | 66 | 344 | 17 | 4 | 1 | 11 | 12401 |
| Percent | 2.2\% | 83.8\% | 8.5\% | 0.0\% | 0.9\% | 1.1\% | 0.0\% | 0.5\% | 2.8\% | 0.1\% | 0.0\% | 0.0\% | 0.1\% |  |


| NB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start |  | Cars \& | 2 Axle |  | 2 Axle | 3 Axle | 4 Axle | <5 AxI | 5 Axle | >6 AxI | <6 AxI | 6 Axle | >6 AxI |  |
| Time | Bikes | Trailers | Long | Buses | 6 Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | Total |
| 11/12/14 | 1 | 12 | 1 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 20 |
| 01:00 | 0 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 15 |
| 02:00 | 0 | 15 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 28 |
| 03:00 | 3 | 38 | 5 | 0 | 3 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 53 |
| 04:00 | 3 | 118 | 34 | 1 | 4 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 164 |
| 05:00 | 3 | 312 | 94 | 0 | 7 | 2 | 0 | 1 | 4 | 0 | 0 | 1 | 0 | 424 |
| 06:00 | 5 | 447 | 99 | 1 | 4 | 5 | 0 | 7 | 9 | 2 | 0 | 1 | 0 | 580 |
| 07:00 | 12 | 525 | 33 | 0 | 4 | 4 | 0 | 4 | 14 | 1 | 0 | 2 | 0 | 599 |
| 08:00 | 12 | 315 | 33 | 0 | 7 | 8 | 0 | 1 | 15 | 0 | 0 | 0 | 1 | 392 |
| 09:00 | 5 | 300 | 21 | 0 | 3 | 2 | 0 | 3 | 10 | 0 | 0 | 1 | 0 | 345 |
| 10:00 | 2 | 246 | 33 | 0 | 5 | 8 | 1 | 3 | 15 | 1 | 1 | 0 | 0 | 315 |
| 11:00 | 6 | 259 | 21 | 0 | 2 | 3 | 1 | 3 | 11 | 3 | 0 | 0 | 0 | 309 |
| 12 PM | 7 | 237 | 21 | 0 | 3 | 1 | 0 | 1 | 12 | 1 | 0 | 0 | 0 | 283 |
| 13:00 | 8 | 233 | 24 | 1 | 3 | 5 | 1 | 1 | 5 | 0 | 0 | 0 | 1 | 282 |
| 14:00 | 4 | 297 | 23 | 0 | 3 | 6 | 0 | 3 | 7 | 1 | 0 | 0 | 0 | 344 |
| 15:00 | 2 | 302 | 30 | 0 | 2 | 3 | 0 | 5 | 6 | 0 | 0 | 0 | 0 | 350 |
| 16:00 | 6 | 386 | 33 | 0 | 2 | 1 | 0 | 3 | 9 | 3 | 0 | 0 | 0 | 443 |
| 17:00 | 7 | 330 | 25 | 1 | 1 | 2 | 0 | 0 | 3 | 2 | 0 | 1 | 0 | 372 |
| 18:00 | 2 | 222 | 12 | 0 | 1 | 2 | 0 | 1 | 6 | 1 | 0 | 0 | 1 | 248 |
| 19:00 | 1 | 112 | 13 | 0 | 1 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 133 |
| 20:00 | 1 | 123 | 17 | 0 | 1 | 1 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 148 |
| 21:00 | 1 | 56 | 5 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 64 |
| 22:00 | 0 | 37 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 23:00 | 1 | 22 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 29 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 92 | 4956 | 586 | 4 | 58 | 66 | 3 | 40 | 149 | 17 | 1 | 6 | 3 | 5981 |
| Percent | 1.5\% | 82.9\% | 9.8\% | 0.1\% | 1.0\% | 1.1\% | 0.1\% | 0.7\% | 2.5\% | 0.3\% | 0.0\% | 0.1\% | 0.1\% |  |
| AM Peak | 07:00 | 07:00 | 06:00 | 04:00 | 05:00 | 08:00 | 10:00 | 06:00 | 08:00 | 11:00 | 10:00 | 07:00 | 08:00 | 07:00 |
| Vol. | 12 | 525 | 99 | 1 | 7 | 8 | 1 | 7 | 15 | 3 | 1 | 2 | 1 | 599 |
| PM Peak | 13:00 | 16:00 | 16:00 | 13:00 | 12:00 | 14:00 | 13:00 | 15:00 | 12:00 | 16:00 |  | 17:00 | 13:00 | 16:00 |
| Vol. | 8 | 386 | 33 | 1 | 3 | 6 | 1 | 5 | 12 | 3 |  | 1 | 1 | 443 |


| NB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Bikes | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $\begin{aligned} & <5 \mathrm{Axl} \\ & \text { Double } \end{aligned}$ | 5 Axle Double | $>6 \mathrm{AxI}$ Double | $\begin{array}{r} <6 \mathrm{AxI} \\ \text { Multi } \end{array}$ | 6 Axle Multi | $\begin{array}{r} >6 \mathrm{AxI} \\ \text { Multi } \end{array}$ | Total |
| 11/13/14 | 1 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 14 |
| 01:00 | 0 | 14 | 2 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 21 |
| 02:00 | 0 | 21 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 26 |
| 03:00 | 2 | 29 | 7 | 1 | 2 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 45 |
| 04:00 | 2 | 101 | 42 | 0 | 6 | 0 | 1 | 1 | 6 | 0 | 0 | 0 | 0 | 159 |
| 05:00 | 1 | 262 | 131 | 0 | 7 | 3 | 0 | 5 | 5 | 0 | 0 | 1 | 0 | 415 |
| 06:00 | 3 | 414 | 121 | 0 | 4 | 9 | 0 | 8 | 6 | 2 | 0 | 0 | 0 | 567 |
| 07:00 | 5 | 472 | 64 | 0 | 7 | 6 | 0 | 3 | 9 | 1 | 0 | 0 | 1 | 568 |
| 08:00 | 3 | 330 | 29 | 0 | 6 | 5 | 0 | 5 | 9 | 0 | 0 | 0 | 1 | 388 |
| 09:00 | 4 | 237 | 51 | 0 | 7 | 5 | 0 | 3 | 7 | 3 | 1 | 0 | 1 | 319 |
| 10:00 | 1 | 236 | 41 | 0 | 2 | 4 | 0 | 3 | 7 | 1 | 0 | 0 | 1 | 296 |
| 11:00 | 4 | 263 | 30 | 0 | 1 | 7 | 0 | 1 | 14 | 0 | 0 | 0 | 0 | 320 |
| 12 PM | 0 | 241 | 64 | 2 | 9 | 5 | 1 | 5 | 10 | 1 | 0 | 0 | 1 | 339 |
| 13:00 | 2 | 234 | 55 | 3 | 9 | 2 | 0 | 2 | 13 | 1 | 0 | 0 | 1 | 322 |
| 14:00 | 2 | 269 | 40 | 0 | 5 | 6 | 0 | 1 | 11 | 1 | 0 | 0 | 0 | 335 |
| 15:00 | 5 | 266 | 38 | 0 | 7 | 4 | 2 | 4 | 8 | 0 | 0 | 1 | 2 | 337 |
| 16:00 | 1 | 327 | 73 | 0 | 4 | 2 | 1 | 3 | 5 | 0 | 0 | 2 | 1 | 419 |
| 17:00 | 2 | 283 | 57 | 1 | 2 | 3 | 1 | 6 | 4 | 3 | 0 | 0 | 1 | 363 |
| 18:00 | 1 | 191 | 36 | 0 | 2 | 1 | 0 | 1 | 5 | 0 | 0 | 1 | 0 | 238 |
| 19:00 | 1 | 127 | 16 | 0 | 1 | 1 | 0 | 3 | 5 | 0 | 0 | 0 | 0 | 154 |
| 20:00 | 0 | 86 | 15 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 107 |
| 21:00 | 1 | 70 | 13 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 87 |
| 22:00 | 1 | 57 | 6 | 0 | 4 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 70 |
| 23:00 | 1 | 20 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 25 |
| Day Total | 43 | 4561 | 934 | 7 | 90 | 68 | 6 | 54 | 139 | 14 | 2 | 6 | 10 | 5934 |
| Percent | 0.7\% | 76.9\% | 15.7\% | 0.1\% | 1.5\% | 1.1\% | 0.1\% | 0.9\% | 2.3\% | 0.2\% | 0.0\% | 0.1\% | 0.2\% |  |
| AM Peak | 07:00 | 07:00 | 05:00 | 03:00 | 05:00 | 06:00 | 04:00 | 06:00 | 11:00 | 09:00 | 09:00 | 05:00 | 07:00 | 07:00 |
| Vol. | 5 | 472 | 131 | 1 | 7 | 9 | 1 | 8 | 14 | 3 | 1 | 1 | 1 | 568 |
| PM Peak | 15:00 | 16:00 | 16:00 | 13:00 | 12:00 | 14:00 | 15:00 | 17:00 | 13:00 | 17:00 | 20:00 | 16:00 | 15:00 | 16:00 |
| Vol. | 5 | 327 | 73 | 3 | 9 | 6 | 2 | 6 | 13 | 3 | 1 | 2 | 2 | 419 |
| Grand Total | 135 | 9517 | 1520 | 11 | 148 | 134 | 9 | 94 | 288 | 31 | 3 | 12 | 13 | 11915 |
| Percent | 1.1\% | 79.9\% | 12.8\% | 0.1\% | 1.2\% | 1.1\% | 0.1\% | 0.8\% | 2.4\% | 0.3\% | 0.0\% | 0.1\% | 0.1\% |  |


| Start Time | Bikes | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5 \mathrm{AxI}$ Double | 5 Axle Double | $>6 \mathrm{AxI}$ <br> Double | $<6 \mathrm{AxI}$ | 6 Axle Multi | >6 AxI | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/12/14 | 0 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 01:00 | 2 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 02:00 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 03:00 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 04:00 | 0 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 20 |
| 05:00 | 1 | 39 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 06:00 | 2 | 160 | 3 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 173 |
| 07:00 | 5 | 282 | 12 | 0 | 6 | 3 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 313 |
| 08:00 | 3 | 212 | 22 | 0 | 5 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 244 |
| 09:00 | 7 | 212 | 29 | 2 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 256 |
| 10:00 | 2 | 294 | 20 | 0 | 1 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 321 |
| 11:00 | 2 | 313 | 20 | 0 | 3 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 342 |
| 12 PM | 2 | 371 | 21 | 0 | 4 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 404 |
| 13:00 | 4 | 412 | 32 | 0 | 4 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 457 |
| 14:00 | 0 | 382 | 54 | 1 | 8 | 2 | 0 | 3 | 1 | 1 | 1 | 0 | 0 | 453 |
| 15:00 | 2 | 401 | 49 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 457 |
| 16:00 | 3 | 461 | 52 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 520 |
| 17:00 | 1 | 570 | 34 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 608 |
| 18:00 | 2 | 360 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 389 |
| 19:00 | 3 | 228 | 18 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250 |
| 20:00 | 1 | 194 | 12 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 208 |
| 21:00 | 1 | 136 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 147 |
| 22:00 | 1 | 71 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 |
| 23:00 | 0 | 36 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 44 | 5199 | 437 | 3 | 50 | 24 | 0 | 13 | 12 | 1 | 1 | 0 | 0 | 5784 |
| Percent | 0.8\% | 89.9\% | 7.6\% | 0.1\% | 0.9\% | 0.4\% | 0.0\% | 0.2\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |
| AM Peak | 09:00 | 11:00 | 09:00 | 09:00 | 06:00 | 07:00 |  | 11:00 | 07:00 |  |  |  |  | 11:00 |
| Vol. | 7 | 313 | 29 | 2 | 7 | 3 |  | 3 | 3 |  |  |  |  | 342 |
| PM Peak | 13:00 | 17:00 | 14:00 | 14:00 | 14:00 | 12:00 |  | 12:00 | 13:00 | 14:00 | 14:00 |  |  | 17:00 |
| Vol. | 4 | 570 | 54 | 1 | 8 | 3 |  | 3 | 2 | 1 | 1 |  |  | 608 |


| Start <br> Time | Bikes | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ AxI Double | 5 Axle Double | $>6$ AxI Double | $\begin{array}{r} <6 \mathrm{AxI} \\ \text { Multi } \end{array}$ | 6 Axle Multi | $\begin{array}{r} >6 \mathrm{AxI} \\ \text { Multi } \end{array}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/13/14 | 0 | 25 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 31 |
| 01:00 | 0 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 02:00 | 0 | 7 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 03:00 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 04:00 | 0 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 05:00 | 0 | 30 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 |
| 06:00 | 1 | 134 | 16 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 157 |
| 07:00 | 1 | 279 | 30 | 0 | 4 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 319 |
| 08:00 | 2 | 219 | 17 | 0 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 246 |
| 09:00 | 2 | 196 | 29 | 0 | 4 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 234 |
| 10:00 | 2 | 255 | 33 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 294 |
| 11:00 | 2 | 315 | 37 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 359 |
| 12 PM | 3 | 333 | 33 | 0 | 1 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 377 |
| 13:00 | 5 | 350 | 24 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 382 |
| 14:00 | 4 | 460 | 26 | 0 | 3 | 2 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 500 |
| 15:00 | 6 | 463 | 26 | 0 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 500 |
| 16:00 | 7 | 530 | 29 | 0 | 4 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 573 |
| 17:00 | 13 | 572 | 34 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 623 |
| 18:00 | 11 | 375 | 19 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 408 |
| 19:00 | 4 | 247 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 260 |
| 20:00 | 2 | 175 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 190 |
| 21:00 | 3 | 123 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 130 |
| 22:00 | 2 | 85 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 |
| 23:00 | 0 | 45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| Day Total | 70 | 5251 | 401 | 0 | 34 | 19 | 0 | 18 | 9 | 1 | 0 | 1 | 0 | 5804 |
| Percent | 1.2\% | 90.5\% | 6.9\% | 0.0\% | 0.6\% | 0.3\% | 0.0\% | 0.3\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |
| AM Peak | 08:00 | 11:00 | 11:00 |  | 08:00 | 11:00 |  | 07:00 | 00:00 | 08:00 |  | 11:00 |  | 11:00 |
| Vol. | 2 | 315 | 37 |  | 7 | 3 |  | 3 | 1 | 1 |  | 1 |  | 359 |
| PM Peak | 17:00 | 17:00 | 17:00 |  | 16:00 | 12:00 |  | 14:00 | 15:00 |  |  |  |  | 17:00 |
| Vol. | 13 | 572 | 34 |  | 4 | 4 |  | 4 | 2 |  |  |  |  | 623 |
| Grand Total | 114 | 10450 | 838 | 3 | 84 | 43 | 0 | 31 | 21 | 2 | 1 | 1 | 0 | 11588 |
| Percent | 1.0\% | 90.2\% | 7.2\% | 0.0\% | 0.7\% | 0.4\% | 0.0\% | 0.3\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |


| Start Time | Bikes | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ AxI Double | 5 Axle Double | $>6 \mathrm{AxI}$ <br> Double | $\begin{aligned} & <6 \mathrm{AxI} \\ & \text { Multi } \end{aligned}$ | 6 Axle Multi | $\begin{array}{r} >6 \mathrm{AxI} \\ \text { Multi } \end{array}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/12/14 | 1 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 01:00 | 1 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 02:00 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 03:00 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 14 |
| 04:00 | 1 | 28 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 05:00 | 5 | 124 | 6 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 138 |
| 06:00 | 11 | 260 | 14 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 288 |
| 07:00 | 14 | 540 | 13 | 0 | 5 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 578 |
| 08:00 | 9 | 420 | 25 | 0 | 3 | 3 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 463 |
| 09:00 | 7 | 363 | 28 | 0 | 2 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 405 |
| 10:00 | 7 | 318 | 30 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 361 |
| 11:00 | 5 | 350 | 19 | 0 | 1 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 381 |
| 12 PM | 7 | 360 | 12 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 385 |
| 13:00 | 5 | 370 | 23 | 0 | 4 | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 407 |
| 14:00 | 4 | 389 | 29 | 0 | 5 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 430 |
| 15:00 | 5 | 377 | 22 | 0 | 5 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 412 |
| 16:00 | 4 | 404 | 28 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 437 |
| 17:00 | 4 | 332 | 27 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 366 |
| 18:00 | 7 | 218 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 235 |
| 19:00 | 2 | 127 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 136 |
| 20:00 | 2 | 115 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124 |
| 21:00 | 0 | 70 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 |
| 22:00 | 0 | 41 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 23:00 | 1 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| Day | 103 | 5270 | 304 | 0 | 34 | 34 | 0 | 6 | 12 | 0 | 0 | 0 | 0 | 5763 |
| Percent | 1.8\% | 91.4\% | 5.3\% | 0.0\% | 0.6\% | 0.6\% | 0.0\% | 0.1\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |
| AM Peak | 07:00 | 07:00 | 10:00 |  | 07:00 | 11:00 |  | 08:00 | 03:00 |  |  |  |  | 07:00 |
| Vol. | 14 | 540 | 30 |  | 5 | 5 |  | 1 | 2 |  |  |  |  | 578 |
| PM Peak | 12:00 | 16:00 | 14:00 |  | 14:00 | 12:00 |  | 13:00 | 13:00 |  |  |  |  | 16:00 |
| Vol. | 7 | 404 | 29 |  | 5 | 5 |  | 1 | 1 |  |  |  |  | 437 |


| Start <br> Time | Bikes | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $\begin{aligned} & <5 \mathrm{AxI} \\ & \text { Double } \end{aligned}$ | 5 Axle Double | $>6 \mathrm{AxI}$ <br> Double | $\begin{array}{r} <6 \mathrm{AxI} \\ \text { Multi } \\ \hline \end{array}$ | 6 Axle Multi | $>6 \mathrm{AxI}$ <br> Multi | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/13/14 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 15 |
| 01:00 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 02:00 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 10 |
| 03:00 | 0 | 15 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 18 |
| 04:00 | 0 | 36 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 05:00 | 0 | 122 | 18 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 141 |
| 06:00 | 3 | 230 | 27 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 263 |
| 07:00 | 2 | 513 | 30 | 0 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 556 |
| 08:00 | 4 | 378 | 18 | 0 | 5 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 408 |
| 09:00 | 4 | 299 | 26 | 0 | 4 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 337 |
| 10:00 | 1 | 345 | 31 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 381 |
| 11:00 | 5 | 365 | 24 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 399 |
| 12 PM | 5 | 332 | 24 | 0 | 2 | 5 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 371 |
| 13:00 | 8 | 293 | 15 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 322 |
| 14:00 | 10 | 375 | 13 | 0 | 3 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 404 |
| 15:00 | 9 | 437 | 10 | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 465 |
| 16:00 | 11 | 366 | 14 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 396 |
| 17:00 | 14 | 353 | 20 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 392 |
| 18:00 | 5 | 247 | 10 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 264 |
| 19:00 | 4 | 227 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 236 |
| 20:00 | 2 | 102 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 |
| 21:00 | 2 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 22:00 | 2 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| 23:00 | 2 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 23 |
| Day Total | 93 | 5197 | 291 | 0 | 46 | 30 | 0 | 7 | 7 | 0 | 1 | 0 | 0 | 5672 |
| Percent | 1.6\% | 91.6\% | 5.1\% | 0.0\% | 0.8\% | 0.5\% | 0.0\% | 0.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |
| AM Peak | 11:00 | 07:00 | 10:00 |  | 07:00 | 11:00 |  | 09:00 | 00:00 |  |  |  |  | 07:00 |
| Vol. | 5 | 513 | 31 |  | 9 | 4 |  | 2 | 1 |  |  |  |  | 556 |
| PM Peak | 17:00 | 15:00 | 12:00 |  | 15:00 | 12:00 |  | 12:00 | 12:00 |  | 16:00 |  |  | 15:00 |
| Vol. | 14 | 437 | 24 |  | 6 | 5 |  | 2 | 1 |  | 1 |  |  | 465 |
| Grand <br> Total | 196 | 10467 | 595 | 0 | 80 | 64 | 0 | 13 | 19 | 0 | 1 | 0 | 0 | 11435 |
| Percent | 1.7\% | 91.5\% | 5.2\% | 0.0\% | 0.7\% | 0.6\% | 0.0\% | 0.1\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |

Site Code: 12

| Start <br> Time | Bikes | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ AxI Double | 5 Axle Double | $>6$ AxI Double | $\begin{array}{r} <6 \mathrm{AxI} \\ \text { Multi } \end{array}$ | 6 Axle Multi | $>6$ AxI Multi | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/12/14 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 01:00 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 02:00 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 03:00 | 0 | 4 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 04:00 | 0 | 5 | 5 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 05:00 | 0 | 31 | 16 | 0 | 6 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 56 |
| 06:00 | 0 | 84 | 22 | 3 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 121 |
| 07:00 | 0 | 150 | 41 | 1 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 205 |
| 08:00 | 0 | 74 | 45 | 0 | 10 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 136 |
| 09:00 | 0 | 74 | 39 | 0 | 7 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 124 |
| 10:00 | 0 | 67 | 25 | 0 | 9 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 106 |
| 11:00 | 1 | 62 | 22 | 0 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 |
| 12 PM | 0 | 81 | 20 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 |
| 13:00 | 0 | 87 | 28 | 1 | 7 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 128 |
| 14:00 | 1 | 99 | 33 | 0 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 146 |
| 15:00 | 1 | 77 | 24 | 1 | 13 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 117 |
| 16:00 | 0 | 90 | 38 | 0 | 7 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 138 |
| 17:00 | 5 | 108 | 29 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 |
| 18:00 | 0 | 64 | 13 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 81 |
| 19:00 | 0 | 44 | 9 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 57 |
| 20:00 | 0 | 41 | 9 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 21:00 | 0 | 25 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 22:00 | 0 | 13 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 23:00 | 0 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Day Total | 8 | 1296 | 435 | 6 | 132 | 22 | 0 | 11 | 2 | 0 | 0 | 0 | 0 | 1912 |
| Percent | 0.4\% | 67.8\% | 22.8\% | 0.3\% | 6.9\% | 1.2\% | 0.0\% | 0.6\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |
| AM Peak | 11:00 | 07:00 | 08:00 | 06:00 | 07:00 | 08:00 |  | 08:00 | 05:00 |  |  |  |  | 07:00 |
| Vol. | 1 | 150 | 45 | 3 | 13 | 4 |  | 3 | 1 |  |  |  |  | 205 |
| PM Peak | 17:00 | 17:00 | 16:00 | 13:00 | 15:00 | 13:00 |  | 16:00 | 16:00 |  |  |  |  | 17:00 |
| Vol. | 5 | 108 | 38 | 1 | 13 | 4 |  | 2 | 1 |  |  |  |  | 150 |


| Start Time | Bikes | Cars \& Trailers | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | $<5$ AxI Double | 5 Axle Double | $>6$ AxI Double | $\begin{array}{r} <6 \mathrm{AxI} \\ \text { Multi } \\ \hline \end{array}$ | 6 Axle Multi | $\begin{array}{r} >6 \mathrm{AxI} \\ \text { Multi } \end{array}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/13/14 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 01:00 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 02:00 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 03:00 | 0 | 4 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 04:00 | 0 | 9 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 05:00 | 0 | 40 | 9 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| 06:00 | 1 | 86 | 21 | 2 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119 |
| 07:00 | 0 | 134 | 36 | 1 | 7 | 1 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 183 |
| 08:00 | 0 | 98 | 30 | 0 | 5 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 136 |
| 09:00 | 1 | 64 | 17 | 0 | 10 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 94 |
| 10:00 | 1 | 63 | 20 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 |
| 11:00 | 0 | 62 | 27 | 0 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 98 |
| 12 PM | 0 | 73 | 14 | 0 | 5 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 94 |
| 13:00 | 1 | 62 | 26 | 0 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 98 |
| 14:00 | 3 | 98 | 24 | 2 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 134 |
| 15:00 | 0 | 100 | 27 | 1 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 141 |
| 16:00 | 0 | 98 | 37 | 2 | 14 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 153 |
| 17:00 | 1 | 108 | 31 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 |
| 18:00 | 0 | 58 | 15 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 78 |
| 19:00 | 0 | 36 | 7 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 20:00 | 0 | 41 | 9 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 21:00 | 0 | 29 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| 22:00 | 0 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 23:00 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 8 | 1295 | 371 | 8 | 120 | 3 | 0 | 16 | 3 | 0 | 0 | 0 | 0 | 1824 |
| Percent | 0.4\% | 71.0\% | 20.3\% | 0.4\% | 6.6\% | 0.2\% | 0.0\% | 0.9\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |
| AM Peak | 06:00 | 07:00 | 07:00 | 06:00 | 09:00 | 07:00 |  | 07:00 | 08:00 |  |  |  |  | 07:00 |
| Vol. | 1 | 134 | 36 | 2 | 10 | 1 |  | 3 | 2 |  |  |  |  | 183 |
| PM Peak | 14:00 | 17:00 | 16:00 | 14:00 | 16:00 | 14:00 |  | 12:00 |  |  |  |  |  | 16:00 |
| Vol. | 3 | 108 | 37 | 2 | 14 | 2 |  | 2 |  |  |  |  |  | 153 |
| Grand Total | 16 | 2591 | 806 | 14 | 252 | 25 | 0 | 27 | 5 | 0 | 0 | 0 | 0 | 3736 |
| Percent | 0.4\% | 69.4\% | 21.6\% | 0.4\% | 6.7\% | 0.7\% | 0.0\% | 0.7\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |


| Start |  | Cars \& | 2 Axle |  | 2 Axle | 3 Axle | 4 Axle | <5 Axl | 5 Axle | $>6 \mathrm{AxI}$ | <6 Axl | 6 Axle | $>6 \mathrm{AxI}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | Bikes | Trailers | Long | Buses | 6 Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | Total |
| 11/12/14 | 0 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 01:00 | 0 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 02:00 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 03:00 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 04:00 | 0 | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 05:00 | 0 | 8 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 06:00 | 0 | 27 | 13 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 07:00 | 0 | 70 | 22 | 2 | 6 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 102 |
| 08:00 | 0 | 66 | 27 | 3 | 6 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 108 |
| 09:00 | 0 | 54 | 30 | 0 | 4 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 93 |
| 10:00 | 0 | 44 | 32 | 1 | 8 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 91 |
| 11:00 | 0 | 55 | 28 | 0 | 3 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 89 |
| 12 PM | 0 | 78 | 31 | 0 | 5 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 117 |
| 13:00 | 0 | 82 | 44 | 2 | 11 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 141 |
| 14:00 | 0 | 93 | 33 | 2 | 5 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 136 |
| 15:00 | 0 | 109 | 27 | 1 | 10 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 152 |
| 16:00 | 0 | 101 | 49 | 2 | 10 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 164 |
| 17:00 | 1 | 170 | 38 | 0 | 9 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 223 |
| 18:00 | 1 | 103 | 30 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140 |
| 19:00 | 0 | 62 | 17 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87 |
| 20:00 | 0 | 54 | 17 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 76 |
| 21:00 | 0 | 39 | 10 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| 22:00 | 0 | 20 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 23:00 | 1 | 14 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 3 | 1276 | 477 | 16 | 111 | 20 | 0 | 22 | 2 | 0 | 0 | 0 | 0 | 1927 |
| Percent | 0.2\% | 66.2\% | 24.8\% | 0.8\% | 5.8\% | 1.0\% | 0.0\% | 1.1\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |
| AM Peak |  | 07:00 | 10:00 | 06:00 | 10:00 | 08:00 |  | 08:00 | 07:00 |  |  |  |  | 08:00 |
| Vol. |  | 70 | 32 | 3 | 8 | 4 |  | 2 | 1 |  |  |  |  | 108 |
| PM Peak | 17:00 | 17:00 | 16:00 | 13:00 | 13:00 | 17:00 |  | 15:00 | 12:00 |  |  |  |  | 17:00 |
| Vol. | 1 | 170 | 49 | 2 | 11 | 3 |  | 4 | 1 |  |  |  |  | 223 |


| Start |  | Cars \& | 2 Axle |  | 2 Axle | 3 Axle | 4 Axle | <5 Axl | 5 Axle | $>6 \mathrm{AxI}$ | <6 AxI | 6 Axle | >6 AxI |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | Bikes | Trailers | Long | Buses | 6 Tire | Single | Single | Double | Double | Double | Multi | Multi | Multi | Total |
| 11/13/14 | 0 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 01:00 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 02:00 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 03:00 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 04:00 | 0 | 3 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 05:00 | 0 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 06:00 | 0 | 31 | 16 | 3 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| 07:00 | 0 | 70 | 23 | 2 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 106 |
| 08:00 | 0 | 67 | 22 | 3 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99 |
| 09:00 | 0 | 32 | 11 | 0 | 4 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 50 |
| 10:00 | 0 | 56 | 14 | 1 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 82 |
| 11:00 | 0 | 57 | 26 | 0 | 13 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 98 |
| 12 PM | 0 | 71 | 22 | 0 | 7 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 103 |
| 13:00 | 1 | 67 | 33 | 0 | 8 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 113 |
| 14:00 | 2 | 106 | 31 | 1 | 10 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 152 |
| 15:00 | 0 | 103 | 44 | 4 | 7 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 161 |
| 16:00 | 4 | 112 | 44 | 1 | 19 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 181 |
| 17:00 | 1 | 133 | 57 | 0 | 17 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 209 |
| 18:00 | 0 | 114 | 49 | 0 | 13 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 178 |
| 19:00 | 0 | 85 | 17 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 |
| 20:00 | 0 | 47 | 12 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| 21:00 | 1 | 34 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| 22:00 | 0 | 25 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| 23:00 | 0 | 15 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| $\begin{aligned} & \text { Day } \\ & \text { Total } \end{aligned}$ | 9 | 1255 | 456 | 15 | 141 | 8 | 0 | 16 | 3 | 0 | 0 | 0 | 0 | 1903 |
| Percent | 0.5\% | 65.9\% | 24.0\% | 0.8\% | 7.4\% | 0.4\% | 0.0\% | 0.8\% | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |
| AM Peak |  | 07:00 | 11:00 | 06:00 | 11:00 | 06:00 |  | 09:00 |  |  |  |  |  | 07:00 |
| Vol. |  | 70 | 26 | 3 | 13 | 1 |  | 3 |  |  |  |  |  | 106 |
| PM Peak | 16:00 | 17:00 | 17:00 | 15:00 | 16:00 | 12:00 |  | 13:00 | 15:00 |  |  |  |  | 17:00 |
| Vol. | 4 | 133 | 57 | 4 | 19 | 1 |  | 3 | 1 |  |  |  |  | 209 |
| Grand Total | 12 | 2531 | 933 | 31 | 252 | 28 | 0 | 38 | 5 | 0 | 0 | 0 | 0 | 3830 |
| Percent | 0.3\% | 66.1\% | 24.4\% | 0.8\% | 6.6\% | 0.7\% | 0.0\% | 1.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |  |

Site Code: 13
Station ID: 13 I-70B S/O 32 RD

| Start <br> Time | $\begin{gathered} \text { 12-Nov-1 } \\ \text { Wed } \end{gathered}$ | NB | SB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 33 | 27 |  |  |  |  |  |  | 60 |
| 01:00 |  | 24 | 13 |  |  |  |  |  |  | 37 |
| 02:00 |  | 25 | 14 |  |  |  |  |  |  | 39 |
| 03:00 |  | 32 | 18 |  |  |  |  |  |  | 50 |
| 04:00 |  | 74 | 31 |  |  |  |  |  |  | 105 |
| 05:00 |  | 165 | 104 |  |  |  |  |  |  | 269 |
| 06:00 |  | 219 | 288 |  |  |  |  |  |  | 507 |
| 07:00 |  | 327 | 597 |  |  |  |  |  |  | 924 |
| 08:00 |  | 395 | 483 |  |  |  |  |  |  | 878 |
| 09:00 |  | 341 | 454 |  |  |  |  |  |  | 795 |
| 10:00 |  | 418 | 500 |  |  |  |  |  |  | 918 |
| 11:00 |  | 495 | 539 |  |  |  |  |  |  | 1034 |
| 12:00 PM |  | 548 | 541 |  |  |  |  |  |  | 1089 |
| 01:00 |  | 569 | 554 |  |  |  |  |  |  | 1123 |
| 02:00 |  | 529 | 505 |  |  |  |  |  |  | 1034 |
| 03:00 |  | 647 | 523 |  |  |  |  |  |  | 1170 |
| 04:00 |  | 718 | 535 |  |  |  |  |  |  | 1253 |
| 05:00 |  | 728 | 585 |  |  |  |  |  |  | 1313 |
| 06:00 |  | 433 | 404 |  |  |  |  |  |  | 837 |
| 07:00 |  | 284 | 265 |  |  |  |  |  |  | 549 |
| 08:00 |  | 217 | 197 |  |  |  |  |  |  | 414 |
| 09:00 |  | 150 | 126 |  |  |  |  |  |  | 276 |
| 10:00 |  | 80 | 87 |  |  |  |  |  |  | 167 |
| 11:00 |  | 59 | 43 |  |  |  |  |  |  | 102 |
| Total |  | 7510 | 7433 |  |  |  |  |  |  | 14943 |
| Percent |  | 50.3\% | 49.7\% |  |  |  |  |  |  |  |
| AM Peak | - | 11:00 | 07:00 | - | - | - | - | - | - | 11:00 |
| Vol. | - | 495 | 597 | - | - | - | - | - | - | 1034 |
| PM Peak | - | 17:00 | 17:00 | - | - | - | - | - | - | 17:00 |
| Vol. | - | 728 | 585 | - | - | - | - | - | - | 1313 |

Site Code: 13
Station ID: 13 I-70B S/O 32 RD

| Start Time | 13-Nov-1 Thu | NB | SB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 30 | 17 |  |  |  |  |  |  | 47 |
| 01:00 |  | 22 | 22 |  |  |  |  |  |  | 44 |
| 02:00 |  | 27 | 17 |  |  |  |  |  |  | 44 |
| 03:00 |  | 34 | 18 |  |  |  |  |  |  | 52 |
| 04:00 |  | 70 | 31 |  |  |  |  |  |  | 101 |
| 05:00 |  | 176 | 123 |  |  |  |  |  |  | 299 |
| 06:00 |  | 217 | 314 |  |  |  |  |  |  | 531 |
| 07:00 |  | 322 | 569 |  |  |  |  |  |  | 891 |
| 08:00 |  | 361 | 472 |  |  |  |  |  |  | 833 |
| 09:00 |  | 361 | 462 |  |  |  |  |  |  | 823 |
| 10:00 |  | 420 | 485 |  |  |  |  |  |  | 905 |
| 11:00 |  | 545 | 538 |  |  |  |  |  |  | 1083 |
| 12:00 PM |  | 541 | 508 |  |  |  |  |  |  | 1049 |
| 01:00 |  | 554 | 469 |  |  |  |  |  |  | 1023 |
| 02:00 |  | 515 | 508 |  |  |  |  |  |  | 1023 |
| 03:00 |  | 644 | 555 |  |  |  |  |  |  | 1199 |
| 04:00 |  | 735 | 523 |  |  |  |  |  |  | 1258 |
| 05:00 |  | 677 | 548 |  |  |  |  |  |  | 1225 |
| 06:00 |  | 425 | 413 |  |  |  |  |  |  | 838 |
| 07:00 |  | 289 | 304 |  |  |  |  |  |  | 593 |
| 08:00 |  | 214 | 189 |  |  |  |  |  |  | 403 |
| 09:00 |  | 149 | 135 |  |  |  |  |  |  | 284 |
| 10:00 |  | 93 | 97 |  |  |  |  |  |  | 190 |
| 11:00 |  | 58 | 44 |  |  |  |  |  |  | 102 |
| Total |  | 7479 | 7361 |  |  |  |  |  |  | 14840 |
| Percent |  | 50.4\% | 49.6\% |  |  |  |  |  |  |  |
| AM Peak | - | 11:00 | 07:00 | - | - | - | - | - | - | 11:00 |
| Vol. | - | 545 | 569 | - | - | - | - | - | - | 1083 |
| PM Peak | - | 16:00 | 15:00 | - | - | - | - | - | - | 16:00 |
| Vol. | - | 735 | 555 | - | - | - | - | - | - | 1258 |
| Total |  | 14989 | 14794 |  |  |  |  |  |  | 29783 |
| Percent |  | 50.3\% | 49.7\% |  |  |  |  |  |  |  |
| ADT |  | 14,892 |  |  |  |  |  |  |  |  |

Site Code: 14 Station ID: 14 F RD W/O 32 RD F RD W/O 32 RD

| Start <br> Time | $\begin{gathered} \text { 12-Nov-1 } \\ \text { Wed } \end{gathered}$ | EB | WB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 29 | 24 |  |  |  |  |  |  | 53 |
| 01:00 |  | 28 | 15 |  |  |  |  |  |  | 43 |
| 02:00 |  | 16 | 12 |  |  |  |  |  |  | 28 |
| 03:00 |  | 23 | 21 |  |  |  |  |  |  | 44 |
| 04:00 |  | 81 | 39 |  |  |  |  |  |  | 120 |
| 05:00 |  | 190 | 146 |  |  |  |  |  |  | 336 |
| 06:00 |  | 300 | 291 |  |  |  |  |  |  | 591 |
| 07:00 |  | 388 | 491 |  |  |  |  |  |  | 879 |
| 08:00 |  | 346 | 465 |  |  |  |  |  |  | 811 |
| 09:00 |  | 347 | 425 |  |  |  |  |  |  | 772 |
| 10:00 |  | 388 | 397 |  |  |  |  |  |  | 785 |
| 11:00 |  | 422 | 434 |  |  |  |  |  |  | 856 |
| 12:00 PM |  | 454 | 458 |  |  |  |  |  |  | 912 |
| 01:00 |  | 469 | 474 |  |  |  |  |  |  | 943 |
| 02:00 |  | 521 | 476 |  |  |  |  |  |  | 997 |
| 03:00 |  | 531 | 506 |  |  |  |  |  |  | 1037 |
| 04:00 |  | 632 | 529 |  |  |  |  |  |  | 1161 |
| 05:00 |  | 531 | 527 |  |  |  |  |  |  | 1058 |
| 06:00 |  | 376 | 457 |  |  |  |  |  |  | 833 |
| 07:00 |  | 262 | 269 |  |  |  |  |  |  | 531 |
| 08:00 |  | 247 | 185 |  |  |  |  |  |  | 432 |
| 09:00 |  | 168 | 130 |  |  |  |  |  |  | 298 |
| 10:00 |  | 83 | 76 |  |  |  |  |  |  | 159 |
| 11:00 |  | 55 | 38 |  |  |  |  |  |  | 93 |
| Total |  | 6887 | 6885 |  |  |  |  |  |  | 13772 |
| Percent |  | 50.0\% | 50.0\% |  |  |  |  |  |  |  |
| AM Peak | - | 11:00 | 07:00 |  | - | - | - | - | - | 07:00 |
| Vol. | - | 422 | 491 | - | - | - | - | - | - | 879 |
| PM Peak | - | 16:00 | 16:00 | - | - | - | - | - | - | 16:00 |
| Vol. | - | 632 | 529 | - | - | - | - | - | - | 1161 |

Site Code: 14 Station ID: 14 F RD W/O 32 RD F RD W/O 32 RD

| Start <br> Time | 13-Nov-1 Thu | EB | WB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 33 | 31 |  |  |  |  |  |  | 64 |
| 01:00 |  | 32 | 10 |  |  |  |  |  |  | 42 |
| 02:00 |  | 17 | 10 |  |  |  |  |  |  | 27 |
| 03:00 |  | 28 | 21 |  |  |  |  |  |  | 49 |
| 04:00 |  | 78 | 38 |  |  |  |  |  |  | 116 |
| 05:00 |  | 184 | 149 |  |  |  |  |  |  | 333 |
| 06:00 |  | 290 | 272 |  |  |  |  |  |  | 562 |
| 07:00 |  | 372 | 501 |  |  |  |  |  |  | 873 |
| 08:00 |  | 353 | 447 |  |  |  |  |  |  | 800 |
| 09:00 |  | 322 | 390 |  |  |  |  |  |  | 712 |
| 10:00 |  | 360 | 404 |  |  |  |  |  |  | 764 |
| 11:00 |  | 397 | 459 |  |  |  |  |  |  | 856 |
| 12:00 PM |  | 433 | 424 |  |  |  |  |  |  | 857 |
| 01:00 |  | 457 | 418 |  |  |  |  |  |  | 875 |
| 02:00 |  | 490 | 453 |  |  |  |  |  |  | 943 |
| 03:00 |  | 564 | 497 |  |  |  |  |  |  | 1061 |
| 04:00 |  | 587 | 549 |  |  |  |  |  |  | 1136 |
| 05:00 |  | 594 | 501 |  |  |  |  |  |  | 1095 |
| 06:00 |  | 379 | 466 |  |  |  |  |  |  | 845 |
| 07:00 |  | 268 | 331 |  |  |  |  |  |  | 599 |
| 08:00 |  | 220 | 161 |  |  |  |  |  |  | 381 |
| 09:00 |  | 157 | 128 |  |  |  |  |  |  | 285 |
| 10:00 |  | 93 | 85 |  |  |  |  |  |  | 178 |
| 11:00 |  | 66 | 57 |  |  |  |  |  |  | 123 |
| Total |  | 6774 | 6802 |  |  |  |  |  |  | 13576 |
| Percent |  | 49.9\% | 50.1\% |  |  |  |  |  |  |  |
| AM Peak | - | 11:00 | 07:00 | - | - | - | - | - | - | 07:00 |
| Vol. | - | 397 | 501 | - | - | - | - | - | - | 873 |
| PM Peak | - | 17:00 | 16:00 | - | - | - | - | - | - | 16:00 |
| Vol. | - | 594 | 549 | - | - | - | - | - | - | 1136 |
| Total |  | 13661 | 13687 |  |  |  |  |  |  | 27348 |
| Percent |  | 50.0\% | 50.0\% |  |  |  |  |  |  |  |
| ADT |  | 13,485 | A |  |  |  |  |  |  |  |

Site Code: 15
Station ID: 15
F RD (US 6) E/O I-70B
F RD (US 6) E/O I-70B

| Start <br> Time | $\begin{gathered} \text { 12-Nov-1 } \\ \text { Wed } \end{gathered}$ | EB | WB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 41 | 22 |  |  |  |  |  |  | 63 |
| 01:00 |  | 33 | 25 |  |  |  |  |  |  | 58 |
| 02:00 |  | 12 | 13 |  |  |  |  |  |  | 25 |
| 03:00 |  | 24 | 29 |  |  |  |  |  |  | 53 |
| 04:00 |  | 53 | 43 |  |  |  |  |  |  | 96 |
| 05:00 |  | 149 | 165 |  |  |  |  |  |  | 314 |
| 06:00 |  | 232 | 340 |  |  |  |  |  |  | 572 |
| 07:00 |  | 373 | 602 |  |  |  |  |  |  | 975 |
| 08:00 |  | 372 | 536 |  |  |  |  |  |  | 908 |
| 09:00 |  | 330 | 483 |  |  |  |  |  |  | 813 |
| 10:00 |  | 376 | 413 |  |  |  |  |  |  | 789 |
| 11:00 |  | 408 | 454 |  |  |  |  |  |  | 862 |
| 12:00 PM |  | 488 | 469 |  |  |  |  |  |  | 957 |
| 01:00 |  | 549 | 483 |  |  |  |  |  |  | 1032 |
| 02:00 |  | 521 | 503 |  |  |  |  |  |  | 1024 |
| 03:00 |  | 575 | 498 |  |  |  |  |  |  | 1073 |
| 04:00 |  | 614 | 503 |  |  |  |  |  |  | 1117 |
| 05:00 |  | 696 | 418 |  |  |  |  |  |  | 1114 |
| 06:00 |  | 483 | 345 |  |  |  |  |  |  | 828 |
| 07:00 |  | 289 | 193 |  |  |  |  |  |  | 482 |
| 08:00 |  | 259 | 180 |  |  |  |  |  |  | 439 |
| 09:00 |  | 198 | 95 |  |  |  |  |  |  | 293 |
| 10:00 |  | 95 | 62 |  |  |  |  |  |  | 157 |
| 11:00 |  | 52 | 37 |  |  |  |  |  |  | 89 |
| Total |  | 7222 | 6911 |  |  |  |  |  |  | 14133 |
| Percent |  | 51.1\% | 48.9\% |  |  |  |  |  |  |  |
| AM Peak | - | 11:00 | 07:00 | - | - | - | - | - | - | 07:00 |
| Vol. | - | 408 | 602 | - | - | - | - | - | - | 975 |
| PM Peak | - | 17:00 | 14:00 | - | - | - | - | - | - | 16:00 |
| Vol. | - | 696 | 503 | - | - | - | - | - | - | 1117 |

Site Code: 15
Station ID: 15
F RD (US 6) E/O I-70B
FRD (US 6) E/O I-70B

| Start Time | 13-Nov-1 Thu | EB | WB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 45 | 22 |  |  |  |  |  |  | 67 |
| 01:00 |  | 28 | 17 |  |  |  |  |  |  | 45 |
| 02:00 |  | 14 | 15 |  |  |  |  |  |  | 29 |
| 03:00 |  | 22 | 31 |  |  |  |  |  |  | 53 |
| 04:00 |  | 47 | 53 |  |  |  |  |  |  | 100 |
| 05:00 |  | 161 | 177 |  |  |  |  |  |  | 338 |
| 06:00 |  | 228 | 312 |  |  |  |  |  |  | 540 |
| 07:00 |  | 366 | 623 |  |  |  |  |  |  | 989 |
| 08:00 |  | 360 | 474 |  |  |  |  |  |  | 834 |
| 09:00 |  | 335 | 392 |  |  |  |  |  |  | 727 |
| 10:00 |  | 396 | 472 |  |  |  |  |  |  | 868 |
| 11:00 |  | 460 | 467 |  |  |  |  |  |  | 927 |
| 12:00 PM |  | 445 | 479 |  |  |  |  |  |  | 924 |
| 01:00 |  | 487 | 389 |  |  |  |  |  |  | 876 |
| 02:00 |  | 544 | 475 |  |  |  |  |  |  | 1019 |
| 03:00 |  | 626 | 513 |  |  |  |  |  |  | 1139 |
| 04:00 |  | 675 | 532 |  |  |  |  |  |  | 1207 |
| 05:00 |  | 697 | 449 |  |  |  |  |  |  | 1146 |
| 06:00 |  | 467 | 356 |  |  |  |  |  |  | 823 |
| 07:00 |  | 292 | 300 |  |  |  |  |  |  | 592 |
| 08:00 |  | 235 | 129 |  |  |  |  |  |  | 364 |
| 09:00 |  | 169 | 92 |  |  |  |  |  |  | 261 |
| 10:00 |  | 103 | 70 |  |  |  |  |  |  | 173 |
| 11:00 |  | 68 | 40 |  |  |  |  |  |  | 108 |
| Total |  | 7270 | 6879 |  |  |  |  |  |  | 14149 |
| Percent |  | 51.4\% | 48.6\% |  |  |  |  |  |  |  |
| AM Peak | - | 11:00 | 07:00 | - | - | - | - | - | - | 07:00 |
| Vol. | - | 460 | 623 | - | - | - | - | - | - | 989 |
| PM Peak | - | 17:00 | 16:00 | - | - | - | - | - | - | 16:00 |
| Vol. | - | 697 | 532 | - | - | - | - | - | - | 1207 |
| Total |  | 14492 | 13790 |  |  |  |  |  |  | 28282 |
| Percent |  | 51.2\% | 48.8\% |  |  |  |  |  |  |  |
| ADT |  | 14,035 |  |  |  |  |  |  |  |  |

Site Code: 16
Station ID: 16

| Start <br> Time | $\begin{gathered} \text { 12-Nov-1 } \\ \text { Wed } \end{gathered}$ | EB | WB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 9 | 10 |  |  |  |  |  |  | 19 |
| 01:00 |  | 9 | 10 |  |  |  |  |  |  | 19 |
| 02:00 |  | 2 | 7 |  |  |  |  |  |  | 9 |
| 03:00 |  | 5 | 8 |  |  |  |  |  |  | 13 |
| 04:00 |  | 13 | 14 |  |  |  |  |  |  | 27 |
| 05:00 |  | 43 | 66 |  |  |  |  |  |  | 109 |
| 06:00 |  | 204 | 179 |  |  |  |  |  |  | 383 |
| 07:00 |  | 295 | 374 |  |  |  |  |  |  | 669 |
| 08:00 |  | 194 | 284 |  |  |  |  |  |  | 478 |
| 09:00 |  | 166 | 252 |  |  |  |  |  |  | 418 |
| 10:00 |  | 218 | 241 |  |  |  |  |  |  | 459 |
| 11:00 |  | 245 | 269 |  |  |  |  |  |  | 514 |
| 12:00 PM |  | 274 | 284 |  |  |  |  |  |  | 558 |
| 01:00 |  | 312 | 275 |  |  |  |  |  |  | 587 |
| 02:00 |  | 332 | 324 |  |  |  |  |  |  | 656 |
| 03:00 |  | 298 | 312 |  |  |  |  |  |  | 610 |
| 04:00 |  | 337 | 306 |  |  |  |  |  |  | 643 |
| 05:00 |  | 374 | 269 |  |  |  |  |  |  | 643 |
| 06:00 |  | 226 | 146 |  |  |  |  |  |  | 372 |
| 07:00 |  | 146 | 94 |  |  |  |  |  |  | 240 |
| 08:00 |  | 125 | 89 |  |  |  |  |  |  | 214 |
| 09:00 |  | 70 | 48 |  |  |  |  |  |  | 118 |
| 10:00 |  | 51 | 25 |  |  |  |  |  |  | 76 |
| 11:00 |  | 30 | 17 |  |  |  |  |  |  | 47 |
| Total |  | 3978 | 3903 |  |  |  |  |  |  | 7881 |
| Percent |  | 50.5\% | 49.5\% |  |  |  |  |  |  |  |
| AM Peak | - | 07:00 | 07:00 | - | - | - | - | - | - | 07:00 |
| Vol. | - | 295 | 374 | - | - | - | - | - | - | 669 |
| PM Peak | - | 17:00 | 14:00 | - | - | - | - | - | - | 14:00 |
| Vol. | - | 374 | 324 | - | - | - | - | - | - | 656 |

Site Code: 16
Station ID: 16

| Start <br> Time | $\begin{gathered} \text { 13-Nov-1 } \\ \text { Thu } \end{gathered}$ | EB | WB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 19 | 6 |  |  |  |  |  |  | 25 |
| 01:00 |  | 10 | 9 |  |  |  |  |  |  | 19 |
| 02:00 |  | 6 | 10 |  |  |  |  |  |  | 16 |
| 03:00 |  | 4 | 12 |  |  |  |  |  |  | 16 |
| 04:00 |  | 10 | 23 |  |  |  |  |  |  | 33 |
| 05:00 |  | 40 | 68 |  |  |  |  |  |  | 108 |
| 06:00 |  | 177 | 164 |  |  |  |  |  |  | 341 |
| 07:00 |  | 309 | 353 |  |  |  |  |  |  | 662 |
| 08:00 |  | 187 | 245 |  |  |  |  |  |  | 432 |
| 09:00 |  | 189 | 213 |  |  |  |  |  |  | 402 |
| 10:00 |  | 187 | 256 |  |  |  |  |  |  | 443 |
| 11:00 |  | 266 | 263 |  |  |  |  |  |  | 529 |
| 12:00 PM |  | 266 | 263 |  |  |  |  |  |  | 529 |
| 01:00 |  | 257 | 220 |  |  |  |  |  |  | 477 |
| 02:00 |  | 368 | 346 |  |  |  |  |  |  | 714 |
| 03:00 |  | 342 | 335 |  |  |  |  |  |  | 677 |
| 04:00 |  | 386 | 320 |  |  |  |  |  |  | 706 |
| 05:00 |  | 399 | 285 |  |  |  |  |  |  | 684 |
| 06:00 |  | 247 | 220 |  |  |  |  |  |  | 467 |
| 07:00 |  | 127 | 199 |  |  |  |  |  |  | 326 |
| 08:00 |  | 99 | 74 |  |  |  |  |  |  | 173 |
| 09:00 |  | 71 | 23 |  |  |  |  |  |  | 94 |
| 10:00 |  | 49 | 28 |  |  |  |  |  |  | 77 |
| 11:00 |  | 21 | 17 |  |  |  |  |  |  | 38 |
| Total |  | 4036 | 3952 |  |  |  |  |  |  | 7988 |
| Percent |  | 50.5\% | 49.5\% |  |  |  |  |  |  |  |
| AM Peak |  | 07:00 | 07:00 | - | - | - | - |  | - | 07:00 |
| Vol. |  | 309 | 353 | - | - | - | - | - | - | 662 |
| PM Peak |  | 17:00 | 14:00 | - | - | - | - | - | - | 14:00 |
| Vol. |  | 399 | 346 | - | - | - | - | - | - | 714 |
| Total |  | 8014 | 7855 |  |  |  |  |  |  | 15869 |
| Percent |  | 50.5\% | 49.5\% |  |  |  |  |  |  |  |
| ADT |  | ADT 7,865 |  |  |  |  |  |  |  |  |


| Start <br> Time | $\begin{gathered} \text { 12-Nov-1 } \\ \text { Wed } \end{gathered}$ | NB | SB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 10 | 13 |  |  |  |  |  |  | 23 |
| 01:00 |  | 7 | 18 |  |  |  |  |  |  | 25 |
| 02:00 |  | 3 | 5 |  |  |  |  |  |  | 8 |
| 03:00 |  | 9 | 3 |  |  |  |  |  |  | 12 |
| 04:00 |  | 9 | 5 |  |  |  |  |  |  | 14 |
| 05:00 |  | 34 | 12 |  |  |  |  |  |  | 46 |
| 06:00 |  | 49 | 20 |  |  |  |  |  |  | 69 |
| 07:00 |  | 95 | 48 |  |  |  |  |  |  | 143 |
| 08:00 |  | 117 | 76 |  |  |  |  |  |  | 193 |
| 09:00 |  | 98 | 80 |  |  |  |  |  |  | 178 |
| 10:00 |  | 80 | 104 |  |  |  |  |  |  | 184 |
| 11:00 |  | 79 | 98 |  |  |  |  |  |  | 177 |
| 12:00 PM |  | 102 | 129 |  |  |  |  |  |  | 231 |
| 01:00 |  | 108 | 142 |  |  |  |  |  |  | 250 |
| 02:00 |  | 116 | 145 |  |  |  |  |  |  | 261 |
| 03:00 |  | 103 | 160 |  |  |  |  |  |  | 263 |
| 04:00 |  | 145 | 153 |  |  |  |  |  |  | 298 |
| 05:00 |  | 115 | 176 |  |  |  |  |  |  | 291 |
| 06:00 |  | 107 | 121 |  |  |  |  |  |  | 228 |
| 07:00 |  | 69 | 101 |  |  |  |  |  |  | 170 |
| 08:00 |  | 58 | 58 |  |  |  |  |  |  | 116 |
| 09:00 |  | 32 | 48 |  |  |  |  |  |  | 80 |
| 10:00 |  | 13 | 16 |  |  |  |  |  |  | 29 |
| 11:00 |  | 14 | 19 |  |  |  |  |  |  | 33 |
| Total |  | 1572 | 1750 |  |  |  |  |  |  | 3322 |
| Percent |  | 47.3\% | 52.7\% |  |  |  |  |  |  |  |
| AM Peak | - | 08:00 | 10:00 | - | - | - | - | - | - | 08:00 |
| Vol. | - | 117 | 104 | - | - | - | - | - | - | 193 |
| PM Peak | - | 16:00 | 17:00 | - | - | - | - | - | - | 16:00 |
| Vol. | - | 145 | 176 | - | - | - | - | - | - | 298 |


| Start Time | 13-Nov-1 <br> Thu | NB | SB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 10 | 13 |  |  |  |  |  |  | 23 |
| 01:00 |  | 6 | 11 |  |  |  |  |  |  | 17 |
| 02:00 |  | 4 | 2 |  |  |  |  |  |  | 6 |
| 03:00 |  | 12 | 4 |  |  |  |  |  |  | 16 |
| 04:00 |  | 15 | 4 |  |  |  |  |  |  | 19 |
| 05:00 |  | 36 | 13 |  |  |  |  |  |  | 49 |
| 06:00 |  | 52 | 27 |  |  |  |  |  |  | 79 |
| 07:00 |  | 88 | 47 |  |  |  |  |  |  | 135 |
| 08:00 |  | 117 | 70 |  |  |  |  |  |  | 187 |
| 09:00 |  | 66 | 75 |  |  |  |  |  |  | 141 |
| 10:00 |  | 79 | 78 |  |  |  |  |  |  | 157 |
| 11:00 |  | 86 | 108 |  |  |  |  |  |  | 194 |
| 12:00 PM |  | 117 | 97 |  |  |  |  |  |  | 214 |
| 01:00 |  | 94 | 119 |  |  |  |  |  |  | 213 |
| 02:00 |  | 106 | 150 |  |  |  |  |  |  | 256 |
| 03:00 |  | 122 | 163 |  |  |  |  |  |  | 285 |
| 04:00 |  | 142 | 168 |  |  |  |  |  |  | 310 |
| 05:00 |  | 124 | 150 |  |  |  |  |  |  | 274 |
| 06:00 |  | 98 | 117 |  |  |  |  |  |  | 215 |
| 07:00 |  | 66 | 73 |  |  |  |  |  |  | 139 |
| 08:00 |  | 52 | 68 |  |  |  |  |  |  | 120 |
| 09:00 |  | 37 | 50 |  |  |  |  |  |  | 87 |
| 10:00 |  | 24 | 25 |  |  |  |  |  |  | 49 |
| 11:00 |  | 24 | 26 |  |  |  |  |  |  | 50 |
| Total |  | 1577 | 1658 |  |  |  |  |  |  | 3235 |
| Percent |  | 48.7\% | 51.3\% |  |  |  |  |  |  |  |
| AM Peak | - | 08:00 | 11:00 | - | - | - | - | - | - | 11:00 |
| Vol. | - | 117 | 108 | - | - | - | - | - | - | 194 |
| PM Peak | - | 16:00 | 16:00 | - | - | - | - | - | - | 16:00 |
| Vol. | - | 142 | 168 | - | - | - | - | - | - | 310 |
| Total |  | 3149 | 3408 |  |  |  |  |  |  | 6557 |
| Percent |  | 48.0\% | 52.0\% |  |  |  |  |  |  |  |
| ADT |  | ADT 3,194 |  |  |  |  |  |  |  |  |

Site Code: 18 Station ID: 18 LOIS ST N/O PEACH ST LOIS ST N/O PEACH ST

| Start <br> Time | $\begin{gathered} \text { 12-Nov-1 } \\ \text { Wed } \end{gathered}$ | NB | SB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 2 | 3 |  |  |  |  |  |  | 5 |
| 01:00 |  | 2 | 0 |  |  |  |  |  |  | 2 |
| 02:00 |  | 0 | 0 |  |  |  |  |  |  | 0 |
| 03:00 |  | 0 | 3 |  |  |  |  |  |  | 3 |
| 04:00 |  | 2 | 6 |  |  |  |  |  |  | 8 |
| 05:00 |  | 3 | 11 |  |  |  |  |  |  | 14 |
| 06:00 |  | 10 | 20 |  |  |  |  |  |  | 30 |
| 07:00 |  | 23 | 34 |  |  |  |  |  |  | 57 |
| 08:00 |  | 21 | 27 |  |  |  |  |  |  | 48 |
| 09:00 |  | 14 | 29 |  |  |  |  |  |  | 43 |
| 10:00 |  | 15 | 13 |  |  |  |  |  |  | 28 |
| 11:00 |  | 27 | 27 |  |  |  |  |  |  | 54 |
| 12:00 PM |  | 19 | 22 |  |  |  |  |  |  | 41 |
| 01:00 |  | 21 | 26 |  |  |  |  |  |  | 47 |
| 02:00 |  | 32 | 17 |  |  |  |  |  |  | 49 |
| 03:00 |  | 48 | 45 |  |  |  |  |  |  | 93 |
| 04:00 |  | 41 | 31 |  |  |  |  |  |  | 72 |
| 05:00 |  | 40 | 37 |  |  |  |  |  |  | 77 |
| 06:00 |  | 42 | 24 |  |  |  |  |  |  | 66 |
| 07:00 |  | 17 | 16 |  |  |  |  |  |  | 33 |
| 08:00 |  | 26 | 17 |  |  |  |  |  |  | 43 |
| 09:00 |  | 9 | 5 |  |  |  |  |  |  | 14 |
| 10:00 |  | 7 | 2 |  |  |  |  |  |  | 9 |
| 11:00 |  | 6 | 4 |  |  |  |  |  |  | 10 |
| Total |  | 427 | 419 |  |  |  |  |  |  | 846 |
| Percent |  | 50.5\% | 49.5\% |  |  |  |  |  |  |  |
| AM Peak | - | 11:00 | 07:00 | - | - | - | - | - | - | 07:00 |
| Vol. | - | 27 | 34 | - | - | - | - | - | - | 57 |
| PM Peak | - | 15:00 | 15:00 | - | - | - | - | - | - | 15:00 |
| Vol. | - | 48 | 45 | - | - | - | - | - | - | 93 |

Site Code: 18 Station ID: 18 LOIS ST N/O PEACH ST LOIS ST N/O PEACH ST

| Start Time | 13-Nov-1 Thu | NB | SB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 0 | 1 |  |  |  |  |  |  | 1 |
| 01:00 |  | 1 | 1 |  |  |  |  |  |  | 2 |
| 02:00 |  | 0 | 0 |  |  |  |  |  |  | 0 |
| 03:00 |  | 0 | 2 |  |  |  |  |  |  | 2 |
| 04:00 |  | 4 | 7 |  |  |  |  |  |  | 11 |
| 05:00 |  | 3 | 15 |  |  |  |  |  |  | 18 |
| 06:00 |  | 13 | 20 |  |  |  |  |  |  | 33 |
| 07:00 |  | 20 | 38 |  |  |  |  |  |  | 58 |
| 08:00 |  | 26 | 25 |  |  |  |  |  |  | 51 |
| 09:00 |  | 13 | 23 |  |  |  |  |  |  | 36 |
| 10:00 |  | 14 | 22 |  |  |  |  |  |  | 36 |
| 11:00 |  | 27 | 21 |  |  |  |  |  |  | 48 |
| 12:00 PM |  | 21 | 22 |  |  |  |  |  |  | 43 |
| 01:00 |  | 20 | 16 |  |  |  |  |  |  | 36 |
| 02:00 |  | 19 | 24 |  |  |  |  |  |  | 43 |
| 03:00 |  | 52 | 44 |  |  |  |  |  |  | 96 |
| 04:00 |  | 54 | 37 |  |  |  |  |  |  | 91 |
| 05:00 |  | 36 | 24 |  |  |  |  |  |  | 60 |
| 06:00 |  | 37 | 33 |  |  |  |  |  |  | 70 |
| 07:00 |  | 24 | 19 |  |  |  |  |  |  | 43 |
| 08:00 |  | 19 | 11 |  |  |  |  |  |  | 30 |
| 09:00 |  | 7 | 5 |  |  |  |  |  |  | 12 |
| 10:00 |  | 7 | 5 |  |  |  |  |  |  | 12 |
| 11:00 |  | 7 | 2 |  |  |  |  |  |  | 9 |
| Total |  | 424 | 417 |  |  |  |  |  |  | 841 |
| Percent |  | 50.4\% | 49.6\% |  |  |  |  |  |  |  |
| AM Peak | - | 11:00 | 07:00 | - | - | - | - | - | - | 07:00 |
| Vol. | - | 27 | 38 | - | - | - | - | - | - | 58 |
| PM Peak | - | 16:00 | 15:00 | - | - | - | - | - | - | 15:00 |
| Vol. | - | 54 | 44 | - | - | - | - | - | - | 96 |
| Total |  | 851 | 836 |  |  |  |  |  |  | 1687 |
| Percent |  | 50.4\% | 49.6\% |  |  |  |  |  |  |  |
| ADT |  | ADT 848 |  |  |  |  |  |  |  |  |

Site Code: 19
Station ID: 19 FRONT ST W/O 33 RD FRONT ST W/O 33 RD

| Start | 12-Nov-1 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | Wed | EB | WB |  |  |  |  |  |  | Total |
| 12:00 AM |  | 1 | 1 |  |  |  |  |  |  | 2 |
| 01:00 |  | 2 | 1 |  |  |  |  |  |  | 3 |
| 02:00 |  | 0 | 0 |  |  |  |  |  |  | 0 |
| 03:00 |  | 0 | 0 |  |  |  |  |  |  | 0 |
| 04:00 |  | 2 | 1 |  |  |  |  |  |  | 3 |
| 05:00 |  | 5 | 1 |  |  |  |  |  |  | 6 |
| 06:00 |  | 4 | 1 |  |  |  |  |  |  | 5 |
| 07:00 |  | 7 | 11 |  |  |  |  |  |  | 18 |
| 08:00 |  | 17 | 8 |  |  |  |  |  |  | 25 |
| 09:00 |  | 11 | 10 |  |  |  |  |  |  | 21 |
| 10:00 |  | 10 | 11 |  |  |  |  |  |  | 21 |
| 11:00 |  | 7 | 16 |  |  |  |  |  |  | 23 |
| 12:00 PM |  | 15 | 5 |  |  |  |  |  |  | 20 |
| 01:00 |  | 15 | 5 |  |  |  |  |  |  | 20 |
| 02:00 |  | 11 | 8 |  |  |  |  |  |  | 19 |
| 03:00 |  | 18 | 12 |  |  |  |  |  |  | 30 |
| 04:00 |  | 13 | 13 |  |  |  |  |  |  | 26 |
| 05:00 |  | 9 | 14 |  |  |  |  |  |  | 23 |
| 06:00 |  | 4 | 9 |  |  |  |  |  |  | 13 |
| 07:00 |  | 5 | 2 |  |  |  |  |  |  | 7 |
| 08:00 |  | 10 | 10 |  |  |  |  |  |  | 20 |
| 09:00 |  | 3 | 3 |  |  |  |  |  |  | 6 |
| 10:00 |  | 4 | 1 |  |  |  |  |  |  | 5 |
| 11:00 |  | 2 | 0 |  |  |  |  |  |  | 2 |
| Total |  | 175 | 143 |  |  |  |  |  |  | 318 |
| Percent |  | 55.0\% | 45.0\% |  |  |  |  |  |  |  |
| AM Peak | - | 08:00 | 11:00 | - | - | - | - |  | - | 08:00 |
| Vol. | - | 17 | 16 | - | - | - | - |  | - | 25 |
| PM Peak | - | 15:00 | 17:00 | - | - |  | - |  | - | 15:00 |
| Vol. | - | 18 | 14 | - | - | - | - | - | - | 30 |

Site Code: 19
Station ID: 19 FRONT ST W/O 33 RD FRONT ST W/O 33 RD

| Start <br> Time | 13-Nov-1 Thu | EB | WB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 2 | 0 |  |  |  |  |  |  | 2 |
| 01:00 |  | 0 | 2 |  |  |  |  |  |  | 2 |
| 02:00 |  | 0 | 1 |  |  |  |  |  |  | 1 |
| 03:00 |  | 1 | 1 |  |  |  |  |  |  | 2 |
| 04:00 |  | 0 | 0 |  |  |  |  |  |  | 0 |
| 05:00 |  | 4 | 0 |  |  |  |  |  |  | 4 |
| 06:00 |  | 5 | 7 |  |  |  |  |  |  | 12 |
| 07:00 |  | 7 | 8 |  |  |  |  |  |  | 15 |
| 08:00 |  | 5 | 1 |  |  |  |  |  |  | 6 |
| 09:00 |  | 6 | 5 |  |  |  |  |  |  | 11 |
| 10:00 |  | 11 | 3 |  |  |  |  |  |  | 14 |
| 11:00 |  | 6 | 10 |  |  |  |  |  |  | 16 |
| 12:00 PM |  | 13 | 10 |  |  |  |  |  |  | 23 |
| 01:00 |  | 12 | 10 |  |  |  |  |  |  | 22 |
| 02:00 |  | 9 | 5 |  |  |  |  |  |  | 14 |
| 03:00 |  | 22 | 9 |  |  |  |  |  |  | 31 |
| 04:00 |  | 20 | 2 |  |  |  |  |  |  | 22 |
| 05:00 |  | 12 | 7 |  |  |  |  |  |  | 19 |
| 06:00 |  | 6 | 5 |  |  |  |  |  |  | 11 |
| 07:00 |  | 6 | 8 |  |  |  |  |  |  | 14 |
| 08:00 |  | 2 | 4 |  |  |  |  |  |  | 6 |
| 09:00 |  | 5 | 2 |  |  |  |  |  |  | 7 |
| 10:00 |  | 1 | 3 |  |  |  |  |  |  | 4 |
| 11:00 |  | 0 | 1 |  |  |  |  |  |  | 1 |
| Total |  | 155 | 104 |  |  |  |  |  |  | 259 |
| Percent |  | 59.8\% | 40.2\% |  |  |  |  |  |  |  |
| AM Peak | - | 10:00 | 11:00 | - | - | - | - | - | - | 11:00 |
| Vol. | - | 11 | 10 | - | - | - | - | - | - | 16 |
| PM Peak | - | 15:00 | 12:00 | - | - | - | - | - | - | 15:00 |
| Vol. | - | 22 | 10 | - | - | - | - | - | - | 31 |
| Total |  | 330 | 247 |  |  |  |  |  |  | 577 |
| Percent |  | 57.2\% | 42.8\% |  |  |  |  |  |  |  |
| ADT |  | ADT 288 |  |  |  |  |  |  |  |  |


| Start <br> Time | $\begin{gathered} \text { 12-Nov-1 } \\ \text { Wed } \end{gathered}$ | NB | SB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 6 | 5 |  |  |  |  |  |  | 11 |
| 01:00 |  | 3 | 3 |  |  |  |  |  |  | 6 |
| 02:00 |  | 3 | 3 |  |  |  |  |  |  | 6 |
| 03:00 |  | 1 | 2 |  |  |  |  |  |  | 3 |
| 04:00 |  | 5 | 12 |  |  |  |  |  |  | 17 |
| 05:00 |  | 10 | 38 |  |  |  |  |  |  | 48 |
| 06:00 |  | 13 | 85 |  |  |  |  |  |  | 98 |
| 07:00 |  | 45 | 150 |  |  |  |  |  |  | 195 |
| 08:00 |  | 63 | 162 |  |  |  |  |  |  | 225 |
| 09:00 |  | 74 | 94 |  |  |  |  |  |  | 168 |
| 10:00 |  | 79 | 93 |  |  |  |  |  |  | 172 |
| 11:00 |  | 75 | 90 |  |  |  |  |  |  | 165 |
| 12:00 PM |  | 84 | 81 |  |  |  |  |  |  | 165 |
| 01:00 |  | 98 | 94 |  |  |  |  |  |  | 192 |
| 02:00 |  | 117 | 106 |  |  |  |  |  |  | 223 |
| 03:00 |  | 120 | 95 |  |  |  |  |  |  | 215 |
| 04:00 |  | 140 | 110 |  |  |  |  |  |  | 250 |
| 05:00 |  | 154 | 96 |  |  |  |  |  |  | 250 |
| 06:00 |  | 93 | 76 |  |  |  |  |  |  | 169 |
| 07:00 |  | 62 | 37 |  |  |  |  |  |  | 99 |
| 08:00 |  | 60 | 30 |  |  |  |  |  |  | 90 |
| 09:00 |  | 46 | 22 |  |  |  |  |  |  | 68 |
| 10:00 |  | 25 | 16 |  |  |  |  |  |  | 41 |
| 11:00 |  | 6 | 7 |  |  |  |  |  |  | 13 |
| Total |  | 1382 | 1507 |  |  |  |  |  |  | 2889 |
| Percent |  | 47.8\% | 52.2\% |  |  |  |  |  |  |  |
| AM Peak | - | 10:00 | 08:00 | - | - | - | - | - | - | 08:00 |
| Vol. | - | 79 | 162 | - | - | - | - | - | - | 225 |
| PM Peak | - | 17:00 | 16:00 | - | - | - | - | - | - | 16:00 |
| Vol. | - | 154 | 110 | - | - | - | - | - | - | 250 |


| Start <br> Time | 13-Nov-1 Thu | NB | SB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 8 | 5 |  |  |  |  |  |  | 13 |
| 01:00 |  | 5 | 3 |  |  |  |  |  |  | 8 |
| 02:00 |  | 1 | 0 |  |  |  |  |  |  | 1 |
| 03:00 |  | 2 | 2 |  |  |  |  |  |  | 4 |
| 04:00 |  | 0 | 13 |  |  |  |  |  |  | 13 |
| 05:00 |  | 10 | 39 |  |  |  |  |  |  | 49 |
| 06:00 |  | 18 | 85 |  |  |  |  |  |  | 103 |
| 07:00 |  | 40 | 140 |  |  |  |  |  |  | 180 |
| 08:00 |  | 58 | 130 |  |  |  |  |  |  | 188 |
| 09:00 |  | 53 | 88 |  |  |  |  |  |  | 141 |
| 10:00 |  | 78 | 81 |  |  |  |  |  |  | 159 |
| 11:00 |  | 66 | 99 |  |  |  |  |  |  | 165 |
| 12:00 PM |  | 86 | 83 |  |  |  |  |  |  | 169 |
| 01:00 |  | 94 | 91 |  |  |  |  |  |  | 185 |
| 02:00 |  | 120 | 93 |  |  |  |  |  |  | 213 |
| 03:00 |  | 120 | 116 |  |  |  |  |  |  | 236 |
| 04:00 |  | 153 | 90 |  |  |  |  |  |  | 243 |
| 05:00 |  | 138 | 104 |  |  |  |  |  |  | 242 |
| 06:00 |  | 88 | 79 |  |  |  |  |  |  | 167 |
| 07:00 |  | 76 | 40 |  |  |  |  |  |  | 116 |
| 08:00 |  | 60 | 23 |  |  |  |  |  |  | 83 |
| 09:00 |  | 38 | 22 |  |  |  |  |  |  | 60 |
| 10:00 |  | 19 | 10 |  |  |  |  |  |  | 29 |
| 11:00 |  | 15 | 5 |  |  |  |  |  |  | 20 |
| Total |  | 1346 | 1441 |  |  |  |  |  |  | 2787 |
| Percent |  | 48.3\% | 51.7\% |  |  |  |  |  |  |  |
| AM Peak | - | 10:00 | 07:00 | - | - | - | - | - |  | 08:00 |
| Vol. | - | 78 | 140 | - | - | - | - | - | - | 188 |
| PM Peak | - | 16:00 | 15:00 | - | - | - | - | - | - | 16:00 |
| Vol. | - | 153 | 116 | - | - | - | - | - | - | 243 |
| Total |  | 2728 | 2948 |  |  |  |  |  |  | 5676 |
| Percent |  | 48.1\% | 51.9\% |  |  |  |  |  |  |  |
| ADT |  | ADT 2,847 |  |  |  |  |  |  |  |  |


| Start <br> Time | $\begin{gathered} \text { 12-Nov-1 } \\ \text { Wed } \\ \hline \end{gathered}$ | EB | WB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 0 | 1 |  |  |  |  |  |  | 1 |
| 01:00 |  | 2 | 0 |  |  |  |  |  |  | 2 |
| 02:00 |  | 1 | 0 |  |  |  |  |  |  | 1 |
| 03:00 |  | 1 | 2 |  |  |  |  |  |  | 3 |
| 04:00 |  | 1 | 0 |  |  |  |  |  |  | 1 |
| 05:00 |  | 18 | 3 |  |  |  |  |  |  | 21 |
| 06:00 |  | 17 | 7 |  |  |  |  |  |  | 24 |
| 07:00 |  | 37 | 15 |  |  |  |  |  |  | 52 |
| 08:00 |  | 19 | 10 |  |  |  |  |  |  | 29 |
| 09:00 |  | 24 | 16 |  |  |  |  |  |  | 40 |
| 10:00 |  | 14 | 9 |  |  |  |  |  |  | 23 |
| 11:00 |  | 13 | 14 |  |  |  |  |  |  | 27 |
| 12:00 PM |  | 13 | 10 |  |  |  |  |  |  | 23 |
| 01:00 |  | 9 | 11 |  |  |  |  |  |  | 20 |
| 02:00 |  | 19 | 25 |  |  |  |  |  |  | 44 |
| 03:00 |  | 27 | 31 |  |  |  |  |  |  | 58 |
| 04:00 |  | 25 | 30 |  |  |  |  |  |  | 55 |
| 05:00 |  | 19 | 32 |  |  |  |  |  |  | 51 |
| 06:00 |  | 19 | 26 |  |  |  |  |  |  | 45 |
| 07:00 |  | 9 | 19 |  |  |  |  |  |  | 28 |
| 08:00 |  | 11 | 20 |  |  |  |  |  |  | 31 |
| 09:00 |  | 4 | 8 |  |  |  |  |  |  | 12 |
| 10:00 |  | 4 | 5 |  |  |  |  |  |  | 9 |
| 11:00 |  | 1 | 3 |  |  |  |  |  |  | 4 |
| Total |  | 307 | 297 |  |  |  |  |  |  | 604 |
| Percent |  | 50.8\% | 49.2\% |  |  |  |  |  |  |  |
| AM Peak | - | 07:00 | 09:00 | - | - | - | - | - |  | 07:00 |
| Vol. | - | 37 | 16 | - | - | - | - | - | - | 52 |
| PM Peak | - | 15:00 | 17:00 | - | - | - | - | - | - | 15:00 |
| Vol. | - | 27 | 32 | - | - | - | - | - | - | 58 |

Site Code: 21
Station ID: 21

| Start <br> Time | 13-Nov-1 Thu | EB | WB |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 0 | 1 |  |  |  |  |  |  | 1 |
| 01:00 |  | 0 | 1 |  |  |  |  |  |  | 1 |
| 02:00 |  | 0 | 0 |  |  |  |  |  |  | 0 |
| 03:00 |  | 1 | 0 |  |  |  |  |  |  | 1 |
| 04:00 |  | 5 | 0 |  |  |  |  |  |  | 5 |
| 05:00 |  | 5 | 2 |  |  |  |  |  |  | 7 |
| 06:00 |  | 30 | 6 |  |  |  |  |  |  | 36 |
| 07:00 |  | 42 | 17 |  |  |  |  |  |  | 59 |
| 08:00 |  | 32 | 18 |  |  |  |  |  |  | 50 |
| 09:00 |  | 24 | 7 |  |  |  |  |  |  | 31 |
| 10:00 |  | 10 | 13 |  |  |  |  |  |  | 23 |
| 11:00 |  | 13 | 12 |  |  |  |  |  |  | 25 |
| 12:00 PM |  | 13 | 16 |  |  |  |  |  |  | 29 |
| 01:00 |  | 9 | 15 |  |  |  |  |  |  | 24 |
| 02:00 |  | 16 | 15 |  |  |  |  |  |  | 31 |
| 03:00 |  | 25 | 26 |  |  |  |  |  |  | 51 |
| 04:00 |  | 19 | 35 |  |  |  |  |  |  | 54 |
| 05:00 |  | 32 | 34 |  |  |  |  |  |  | 66 |
| 06:00 |  | 22 | 18 |  |  |  |  |  |  | 40 |
| 07:00 |  | 16 | 26 |  |  |  |  |  |  | 42 |
| 08:00 |  | 6 | 15 |  |  |  |  |  |  | 21 |
| 09:00 |  | 2 | 9 |  |  |  |  |  |  | 11 |
| 10:00 |  | 4 | 8 |  |  |  |  |  |  | 12 |
| 11:00 |  | 1 | 3 |  |  |  |  |  |  | 4 |
| Total |  | 327 | 297 |  |  |  |  |  |  | 624 |
| Percent |  | 52.4\% | 47.6\% |  |  |  |  |  |  |  |
| AM Peak | - | 07:00 | 08:00 | - | - | - | - | - | - | 07:00 |
| Vol. | - | 42 | 18 | - | - | - | - | - | - | 59 |
| PM Peak | - | 17:00 | 16:00 | - | - | - | - | - | - | 17:00 |
| Vol. | - | 32 | 35 | - | - | - | - | - | - | 66 |
| Total |  | 634 | 594 |  |  |  |  |  |  | 1228 |
| Percent |  | 51.6\% | 48.4\% |  |  |  |  |  |  |  |
| ADT |  | ADT 591 |  |  |  |  |  |  |  |  |

All Traffic Data Services,Inc.
9660 W 44th Ave
Wheat Ridge,CO 80033
www.alltrafficdata.net

File Name : \#1 I70B\&BUDWEISERAM
Site Code : 00000000
Start Date : 11/13/2014
Page No : 1

Groups Printed- Class 1

|  | I-70B <br> Southbound |  |  |  | BUDWEISER Westbound |  |  |  | I-70B <br> Northbound |  |  |  | BUDWEISER <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 07:00 AM | 1 | 80 | 0 | 0 | 9 | 0 | 4 | 0 | 0 | 139 | 4 | 0 | 0 | 0 | 0 | 0 | 237 |
| 07:15 AM | 1 | 84 | 1 | 0 | 3 | 0 | 5 | 0 | 0 | 157 | 2 | 0 | 0 | 0 | 0 | 0 | 253 |
| 07:30 AM | 1 | 90 | 3 | 0 | 11 | 0 | 4 | 0 | 0 | 163 | 5 | 0 | 3 | 0 | 0 | 0 | 280 |
| 07:45 AM | 0 | 84 | 2 | 0 | 5 | 0 | 4 | 0 | 0 | 145 | 4 | 0 | 2 | 0 | 0 | 0 | 246 |
| Total | 3 | 338 | 6 | 0 | 28 | 0 | 17 | 0 | 0 | 604 | 15 | 0 | 5 | 0 | 0 | 0 | 1016 |
| 08:00 AM | 2 | 62 | 1 | 0 | 6 | 0 | 1 | 0 | 0 | 117 | 0 | 0 | 1 | 0 | 6 | 0 | 196 |
| 08:15 AM | 0 | 56 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 99 | 0 | 0 | 2 | 0 | 1 | 0 | 164 |
| 08:30 AM | 0 | 56 | 0 | 0 | 6 | 0 | 2 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 164 |
| 08:45 AM | 0 | 61 | 2 | 0 | 2 | 0 | 7 | 0 | 0 | 82 | 0 | 0 | 3 | 0 | 0 | 0 | 157 |
| Total | 2 | 235 | 5 | 0 | 15 | 0 | 13 | 0 | 0 | 398 | 0 | 0 | 6 | 0 | 7 | 0 | 681 |
| Grand Total | 5 | 573 | 11 | 0 | 43 | 0 | 30 | 0 | 0 | 1002 | 15 | 0 | 11 | 0 | 7 | 0 | 1697 |
| Apprch \% | 0.8 | 97.3 | 1.9 | 0 | 58.9 | 0 | 41.1 | 0 | 0 | 98.5 | 1.5 | 0 | 61.1 | 0 | 38.9 | 0 |  |
| Total \% | 0.3 | 33.8 | 0.6 | 0 | 2.5 | 0 | 1.8 | 0 | 0 | 59 | 0.9 | 0 | 0.6 | 0 | 0.4 | 0 |  |



All Traffic Data Services,Inc.
9660 W 44th Ave
Wheat Ridge,CO 80033
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File Name : \#1 I70B\&BUDWEISERAM
Site Code : 00000000
Start Date : 11/13/2014
Page No :2

|  | I-70B <br> Southbound |  |  |  |  | BUDWEISER <br> Westbound |  |  |  |  | I-70B <br> Northbound |  |  |  |  | BUDWEISER <br> Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:00 AM | 1 | 80 | 0 | 0 | 81 | 9 | 0 | 4 | 0 | 13 | 0 | 139 | 4 | 0 | 143 | 0 | 0 | 0 | 0 | 0 | 237 |
| 07:15 AM | 1 | 84 | 1 | 0 | 86 | 3 | 0 | 5 | 0 | 8 | 0 | 157 | 2 | 0 | 159 | 0 | 0 | 0 | 0 | 0 | 253 |
| 07:30 AM | 1 | 90 | 3 | 0 | 94 | 11 | 0 | 4 | 0 | 15 | 0 | 163 | 5 | 0 | 168 | 3 | 0 | 0 | 0 | 3 | 280 |
| 07:45 AM | 0 | 84 | 2 | 0 | 86 | 5 | 0 | 4 | 0 | 9 | 0 | 145 | 4 | 0 | 149 | 2 | 0 | 0 | 0 | 2 | 246 |
| Total Volume | 3 | 338 | 6 | 0 | 347 | 28 | 0 | 17 | 0 | 45 | 0 | 604 | 15 | 0 | 619 | 5 | 0 | 0 | 0 | 5 | 1016 |
| \% App. Total | 0.9 | 97.4 | 1.7 | 0 |  | 62.2 | 0 | 37.8 | 0 |  | 0 | 97.6 | 2.4 | 0 |  | 100 | 0 | 0 | 0 |  |  |
| PHF | . 750 | . 939 | . 500 | . 000 | . 923 | . 636 | . 000 | . 850 | . 000 | . 750 | . 000 | . 926 | . 750 | . 000 | . 921 | . 417 | . 000 | . 000 | . 000 | . 417 | . 907 |



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File Name : \#1 I70B\&BUDWEISERPM
Site Code : 00000000
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Page No : 1

Groups Printed- Class 1

|  | I-70B <br> Southbound |  |  |  | BUDWEISER Westbound |  |  |  | I-70B <br> Northbound |  |  |  | BUDWEISER <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 04:00 PM | 0 | 138 | 5 | 0 | 1 | 0 | 3 | 0 | 0 | 104 | 3 | 0 | 3 | 0 | 0 | 0 | 257 |
| 04:15 PM | 1 | 138 | 4 | 0 | 3 | 0 | 2 | 0 | 0 | 126 | 1 | 0 | 1 | 0 | 0 | 0 | 276 |
| 04:30 PM | 0 | 141 | 7 | 0 | 1 | 0 | 3 | 0 | 0 | 91 | 1 | 0 | 0 | 0 | 0 | 3 | 247 |
| 04:45 PM | 0 | 170 | 3 | 0 | 0 | 0 | 5 | 0 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 286 |
| Total | 1 | 587 | 19 | 0 | 5 | 0 | 13 | 0 | 0 | 429 | 5 | 0 | 4 | 0 | 0 | 3 | 1066 |
| 05:00 PM | 0 | 208 | 5 | 0 | 5 | 0 | 3 | 0 | 0 | 106 | 0 | 0 | 9 | 0 | 0 | 0 | 336 |
| 05:15 PM | 0 | 242 | 3 | 0 | 3 | 0 | 0 | 0 | 2 | 104 | 0 | 0 | 0 | 0 | 0 | 0 | 354 |
| 05:30 PM | 1 | 162 | 3 | 0 | 1 | 0 | 5 | 0 | 3 | 95 | 0 | 0 | 1 | 0 | 0 | 0 | 271 |
| 05:45 PM | 0 | 151 | 3 | 0 | 2 | 0 | 1 | 0 | 5 | 69 | 0 | 0 | 0 | 0 | 0 | 0 | 231 |
| Total | 1 | 763 | 14 | 0 | 11 | 0 | 9 | 0 | 10 | 374 | 0 | 0 | 10 | 0 | 0 | 0 | 1192 |
| Grand Total | 2 | 1350 | 33 | 0 | 16 | 0 | 22 | 0 | 10 | 803 | 5 | 0 | 14 | 0 | 0 | 3 | 2258 |
| Apprch \% | 0.1 | 97.5 | 2.4 | 0 | 42.1 | 0 | 57.9 | 0 | 1.2 | 98.2 | 0.6 | 0 | 82.4 | 0 | 0 | 17.6 |  |
| Total \% | 0.1 | 59.8 | 1.5 | 0 | 0.7 | 0 | 1 | 0 | 0.4 | 35.6 | 0.2 | 0 | 0.6 | 0 | 0 | 0.1 |  |



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File Name : \#1 I70B\&BUDWEISERPM
Site Code : 00000000
Start Date : 11/13/2014
Page No :2

|  | I-70B <br> Southbound |  |  |  |  | BUDWEISER <br> Westbound |  |  |  |  | I-70B <br> Northbound |  |  |  |  | BUDWEISER Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:45 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:45 PM | 0 | 170 | 3 | 0 | 173 | 0 | 0 | 5 | 0 | 5 | 0 | 108 | 0 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 286 |
| 05:00 PM | 0 | 208 | 5 | 0 | 213 | 5 | 0 | 3 | 0 | 8 | 0 | 106 | 0 | 0 | 106 | 9 | 0 | 0 | 0 | 9 | 336 |
| 05:15 PM | 0 | 242 | 3 | 0 | 245 | 3 | 0 | 0 | 0 | 3 | 2 | 104 | 0 | 0 | 106 | 0 | 0 | 0 | 0 | 0 | 354 |
| 05:30 PM | 1 | 162 | 3 | 0 | 166 | 1 | 0 | 5 | 0 | 6 | 3 | 95 | 0 | 0 | 98 | 1 | 0 | 0 | 0 | 1 | 271 |
| Total Volume | 1 | 782 | 14 | 0 | 797 | 9 | 0 | 13 | 0 | 22 | 5 | 413 | 0 | 0 | 418 | 10 | 0 | 0 | 0 | 10 | 1247 |
| \% App. Total | 0.1 | 98.1 | 1.8 | 0 |  | 40.9 | 0 | 59.1 | 0 |  | 1.2 | 98.8 | 0 | 0 |  | 100 | 0 | 0 | 0 |  |  |
| PHF | . 250 | . 808 | . 700 | . 000 | . 813 | . 450 | . 000 | . 650 | . 000 | . 688 | . 417 | . 956 | . 000 | . 000 | . 968 | . 278 | . 000 | . 000 | . 000 | . 278 | . 881 |


|  |  |  |
| :---: | :---: | :---: |
|  | Peak Hour Data <br> Peak Hour Begins at 04:45 PM Class 1 |  |
|  |  |  |

All Traffic Data Services,Inc.
9660 W 44th Ave
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File Name : \#2 I70B\&FRDAM Site Code : 00000000 Start Date : 11/13/2014 Page No : 1

Groups Printed-Class 1

|  | I-70B Southbound |  |  |  | F ROAD (US 6) Westbound |  |  |  | I-70B <br> Northbound |  |  |  | F ROAD (US 6) <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 07:00 AM | 12 | 48 | 18 | 0 | 27 | 57 | 51 | 0 | 32 | 86 | 13 | 0 | 12 | 73 | 26 | 0 | 455 |
| 07:15 AM | 20 | 59 | 11 | 0 | 30 | 96 | 70 | 0 | 31 | 78 | 13 | 1 | 10 | 39 | 44 | 0 | 502 |
| 07:30 AM | 12 | 59 | 18 | 0 | 30 | 80 | 81 | 0 | 35 | 108 | 9 | 0 | 18 | 39 | 42 | 0 | 531 |
| 07:45 AM | 14 | 62 | 14 | 0 | 24 | 60 | 48 | 0 | 47 | 77 | 17 | 0 | 9 | 55 | 24 | 0 | 451 |
| Total | 58 | 228 | 61 | 0 | 111 | 293 | 250 | 0 | 145 | 349 | 52 | 1 | 49 | 206 | 136 | 0 | 1939 |
| 08:00 AM | 4 | 45 | 14 | 0 | 16 | 64 | 34 | 0 | 41 | 76 | 18 | 0 | 16 | 51 | 25 | 0 | 404 |
| 08:15 AM | 15 | 39 | 6 | 0 | 17 | 67 | 53 | 0 | 43 | 61 | 25 | 0 | 9 | 41 | 13 | 0 | 389 |
| 08:30 AM | 14 | 38 | 4 | 1 | 14 | 66 | 51 | 0 | 38 | 58 | 24 | 0 | 16 | 56 | 25 | 0 | 405 |
| 08:45 AM | 11 | 57 | 7 | 1 | 11 | 70 | 44 | 0 | 30 | 50 | 19 | 0 | 23 | 61 | 19 | 0 | 403 |
| Total | 44 | 179 | 31 | 2 | 58 | 267 | 182 | 0 | 152 | 245 | 86 | 0 | 64 | 209 | 82 | 0 | 1601 |
| Grand Total | 102 | 407 | 92 | 2 | 169 | 560 | 432 | 0 | 297 | 594 | 138 | 1 | 113 | 415 | 218 | 0 | 3540 |
| Apprch \% | 16.9 | 67.5 | 15.3 | 0.3 | 14.6 | 48.2 | 37.2 | 0 | 28.8 | 57.7 | 13.4 | 0.1 | 15.1 | 55.6 | 29.2 | 0 |  |
| Total \% | 2.9 | 11.5 | 2.6 | 0.1 | 4.8 | 15.8 | 12.2 | 0 | 8.4 | 16.8 | 3.9 | 0 | 3.2 | 11.7 | 6.2 | 0 |  |



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File Name : \#2 I70B\&FRDAM
Site Code : 00000000
Start Date : 11/13/2014 Page No : 2

|  | I-70B <br> Southbound |  |  |  |  | F ROAD (US 6) <br> Westbound |  |  |  |  | I-70B <br> Northbound |  |  |  |  | F ROAD (US 6) Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:00 AM | 12 | 48 | 18 | 0 | 78 | 27 | 57 | 51 | 0 | 135 | 32 | 86 | 13 | 0 | 131 | 12 | 73 | 26 | 0 | 111 | 455 |
| 07:15 AM | 20 | 59 | 11 | 0 | 90 | 30 | 96 | 70 | 0 | 196 | 31 | 78 | 13 | 1 | 123 | 10 | 39 | 44 | 0 | 93 | 502 |
| 07:30 AM | 12 | 59 | 18 | 0 | 89 | 30 | 80 | 81 | 0 | 191 | 35 | 108 | 9 | 0 | 152 | 18 | 39 | 42 | 0 | 99 | 531 |
| 07:45 AM | 14 | 62 | 14 | 0 | 90 | 24 | 60 | 48 | 0 | 132 | 47 | 77 | 17 | 0 | 141 | 9 | 55 | 24 | 0 | 88 | 451 |
| Total Volume | 58 | 228 | 61 | 0 | 347 | 111 | 293 | 250 | 0 | 654 | 145 | 349 | 52 | 1 | 547 | 49 | 206 | 136 | 0 | 391 | 1939 |
| \% App. Total | 16.7 | 65.7 | 17.6 | 0 |  | 17 | 44.8 | 38.2 | 0 |  | 26.5 | 63.8 | 9.5 | 0.2 |  | 12.5 | 52.7 | 34.8 | 0 |  |  |
| PHF | . 725 | . 919 | . 847 | . 000 | . 964 | . 925 | . 763 | . 772 | . 000 | . 834 | . 771 | . 808 | . 765 | . 250 | . 900 | . 681 | 705 | . 773 | . 000 | . 881 | . 913 |



All Traffic Data Services,Inc.
9660 W 44th Ave
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File Name : \#2 I70B\&FRDPM
Site Code : 00000000
Start Date : 11/13/2014 Page No : 1

Groups Printed- Class 1

|  | I-70B Southbound |  |  |  | F ROAD (US 6) Westbound |  |  |  | I-70B Northbound |  |  |  | F ROAD (US 6) Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 04:00 PM | 22 | 80 | 26 | 0 | 18 | 64 | 67 | 0 | 91 | 81 | 21 | 1 | 46 | 96 | 26 | 0 | 639 |
| 04:15 PM | 38 | 79 | 27 | 0 | 13 | 65 | 48 | 0 | 84 | 84 | 36 | 1 | 29 | 96 | 21 | 0 | 621 |
| 04:30 PM | 48 | 69 | 27 | 0 | 15 | 82 | 50 | 0 | 76 | 61 | 23 | 0 | 30 | 90 | 22 | 0 | 593 |
| 04:45 PM | 46 | 111 | 19 | 0 | 21 | 96 | 59 | 0 | 75 | 56 | 31 | 0 | 11 | 82 | 17 | 0 | 624 |
| Total | 154 | 339 | 99 | 0 | 67 | 307 | 224 | 0 | 326 | 282 | 111 | 2 | 116 | 364 | 86 | 0 | 2477 |
| 05:00 PM | 47 | 130 | 42 | 0 | 11 | 74 | 38 | 0 | 77 | 78 | 15 | 1 | 33 | 89 | 30 | 0 | 665 |
| 05:15 PM | 60 | 130 | 42 | 0 | 11 | 80 | 48 | 0 | 67 | 56 | 29 | 0 | 23 | 102 | 24 | 0 | 672 |
| 05:30 PM | 53 | 95 | 39 | 0 | 14 | 61 | 52 | 0 | 79 | 64 | 34 | 0 | 29 | 85 | 28 | 0 | 633 |
| 05:45 PM | 55 | 75 | 36 | 0 | 3 | 59 | 56 | 0 | 53 | 45 | 39 | 0 | 29 | 102 | 23 | 0 | 575 |
| Total | 215 | 430 | 159 | 0 | 39 | 274 | 194 | 0 | 276 | 243 | 117 | 1 | 114 | 378 | 105 | 0 | 2545 |
| Grand Total | 369 | 769 | 258 | 0 | 106 | 581 | 418 | 0 | 602 | 525 | 228 | 3 | 230 | 742 | 191 | 0 | 5022 |
| Apprch \% | 26.4 | 55.1 | 18.5 | 0 | 9.6 | 52.6 | 37.8 | 0 | 44.3 | 38.7 | 16.8 | 0.2 | 19.8 | 63.8 | 16.4 | 0 |  |
| Total \% | 7.3 | 15.3 | 5.1 | 0 | 2.1 | 11.6 | 8.3 | 0 | 12 | 10.5 | 4.5 | 0.1 | 4.6 | 14.8 | 3.8 | 0 |  |



All Traffic Data Services,Inc.
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File Name : \#2 170B\&FRDPM
Site Code : 00000000
Start Date : 11/13/2014 Page No : 2

|  | I-70B <br> Southbound |  |  |  |  | F ROAD (US 6) <br> Westbound |  |  |  |  | I-70B <br> Northbound |  |  |  |  | F ROAD (US 6) Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:45 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:45 PM | 46 | 111 | 19 | 0 | 176 | 21 | 96 | 59 | 0 | 176 | 75 | 56 | 31 | 0 | 162 | 11 | 82 | 17 | 0 | 110 | 624 |
| 05:00 PM | 47 | 130 | 42 | 0 | 219 | 11 | 74 | 38 | 0 | 123 | 77 | 78 | 15 | 1 | 171 | 33 | 89 | 30 | 0 | 152 | 665 |
| 05:15 PM | 60 | 130 | 42 | 0 | 232 | 11 | 80 | 48 | 0 | 139 | 67 | 56 | 29 | 0 | 152 | 23 | 102 | 24 | 0 | 149 | 672 |
| 05:30 PM | 53 | 95 | 39 | 0 | 187 | 14 | 61 | 52 | 0 | 127 | 79 | 64 | 34 | 0 | 177 | 29 | 85 | 28 | 0 | 142 | 633 |
| Total Volume | 206 | 466 | 142 | 0 | 814 | 57 | 311 | 197 | 0 | 565 | 298 | 254 | 109 | 1 | 662 | 96 | 358 | 99 | 0 | 553 | 2594 |
| \% App. Total | 25.3 | 57.2 | 17.4 | 0 |  | 10.1 | 55 | 34.9 | 0 |  | 45 | 38.4 | 16.5 | 0.2 |  | 17.4 | 64.7 | 17.9 | 0 |  |  |
| PHF | . 858 | . 896 | . 845 | . 000 | . 877 | . 679 | . 810 | . 835 | . 000 | . 803 | . 943 | . 814 | . 801 | . 250 | . 935 | . 727 | . 877 | . 825 | . 000 | . 910 | . 965 |


|  |  |  |
| :---: | :---: | :---: |
|  | Peak Hour Data <br> Peak Hour Begins at 04:45 PM <br> Class 1 |  |
|  |  |  |

All Traffic Data Services,Inc.
9660 W 44th Ave
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File Name : \#3 I70B\&32AM
Site Code : 00000000
Start Date : 11/13/2014 Page No : 1

Groups Printed- Class 1

|  | I-70B <br> Southbound |  |  |  | 32 ROAD (HWY 141) Westbound |  |  |  | I-70B <br> Northbound |  |  |  | 32 ROAD (HWY 141) Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 07:00 AM | 20 | 77 | 16 | 0 | 74 | 43 | 67 | 0 | 20 | 50 | 0 | 0 | 2 | 28 | 8 | 0 | 405 |
| 07:15 AM | 18 | 86 | 34 | 0 | 79 | 47 | 38 | 0 | 23 | 63 | 0 | 0 | 0 | 32 | 13 | 0 | 433 |
| 07:30 AM | 13 | 115 | 31 | 0 | 98 | 65 | 78 | 0 | 21 | 50 | 1 | 0 | 1 | 25 | 9 | 0 | 507 |
| 07:45 AM | 12 | 83 | 59 | 0 | 79 | 43 | 51 | 0 | 25 | 54 | 0 | 0 | 0 | 37 | 16 | 0 | 459 |
| Total | 63 | 361 | 140 | 0 | 330 | 198 | 234 | 0 | 89 | 217 | 1 | 0 | 3 | 122 | 46 | 0 | 1804 |
| 08:00 AM | 11 | 57 | 45 | 0 | 81 | 45 | 39 | 0 | 16 | 63 | 2 | 0 | 1 | 25 | 6 | 0 | 391 |
| 08:15 AM | 15 | 73 | 27 | 1 | 64 | 74 | 35 | 0 | 27 | 69 | 0 | 0 | 4 | 33 | 18 | 0 | 440 |
| 08:30 AM | 9 | 70 | 34 | 1 | 78 | 80 | 49 | 1 | 12 | 63 | 1 | 0 | 2 | 23 | 8 | 0 | 431 |
| 08:45 AM | 19 | 80 | 40 | 1 | 70 | 48 | 38 | 1 | 24 | 56 | 1 | 0 | 2 | 26 | 18 | 0 | 424 |
| Total | 54 | 280 | 146 | 3 | 293 | 247 | 161 | 2 | 79 | 251 | 4 | 0 | 9 | 107 | 50 | 0 | 1686 |
| Grand Total | 117 | 641 | 286 | 3 | 623 | 445 | 395 | 2 | 168 | 468 | 5 | 0 | 12 | 229 | 96 | 0 | 3490 |
| Apprch \% | 11.2 | 61.2 | 27.3 | 0.3 | 42.5 | 30.4 | 27 | 0.1 | 26.2 | 73 | 0.8 | 0 | 3.6 | 68 | 28.5 | 0 |  |
| Total \% | 3.4 | 18.4 | 8.2 | 0.1 | 17.9 | 12.8 | 11.3 | 0.1 | 4.8 | 13.4 | 0.1 | 0 | 0.3 | 6.6 | 2.8 | 0 |  |



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File Name : \#3 I70B\&32AM
Site Code : 00000000
Start Date : 11/13/2014 Page No : 2

|  | I-70B <br> Southbound |  |  |  |  | 32 ROAD (HWY 141) Westbound |  |  |  |  | I-70B <br> Northbound |  |  |  |  | 32 ROAD (HWY 141) Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:00 AM | 20 | 77 | 16 | 0 | 113 | 74 | 43 | 67 | 0 | 184 | 20 | 50 | 0 | 0 | 70 | 2 | 28 | 8 | 0 | 38 | 405 |
| 07:15 AM | 18 | 86 | 34 | 0 | 138 | 79 | 47 | 38 | 0 | 164 | 23 | 63 | 0 | 0 | 86 | 0 | 32 | 13 | 0 | 45 | 433 |
| 07:30 AM | 13 | 115 | 31 | 0 | 159 | 98 | 65 | 78 | 0 | 241 | 21 | 50 | 1 | 0 | 72 | 1 | 25 | 9 | 0 | 35 | 507 |
| 07:45 AM | 12 | 83 | 59 | 0 | 154 | 79 | 43 | 51 | 0 | 173 | 25 | 54 | 0 | 0 | 79 | 0 | 37 | 16 | 0 | 53 | 459 |
| Total Volume | 63 | 361 | 140 | 0 | 564 | 330 | 198 | 234 | 0 | 762 | 89 | 217 | 1 | 0 | 307 | 3 | 122 | 46 | 0 | 171 | 1804 |
| \% App. Total | 11.2 | 64 | 24.8 | 0 |  | 43.3 | 26 | 30.7 | 0 |  | 29 | 70.7 | 0.3 | 0 |  | 1.8 | 71.3 | 26.9 | 0 |  |  |
| PHF | . 788 | . 785 | . 593 | . 000 | . 887 | . 842 | . 762 | . 750 | . 000 | . 790 | . 890 | . 861 | . 250 | . 000 | . 892 | . 375 | . 824 | 719 | . 000 | . 807 | . 890 |



All Traffic Data Services,Inc.
9660 W 44th Ave
Wheat Ridge,CO 80033
www.alltrafficdata.net

File Name : \#3 I70B\&32PM
Site Code : 00000000
Start Date : 11/13/2014 Page No : 1

Groups Printed- Class 1

|  | I-70B <br> Southbound |  |  |  | 32 ROAD (HWY 141) Westbound |  |  |  | I-70B <br> Northbound |  |  |  | 32 ROAD (HWY 141) Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 04:00 PM | 31 | 100 | 86 | 0 | 88 | 78 | 51 | 0 | 63 | 112 | 2 | 0 | 5 | 78 | 38 | 0 | 732 |
| 04:15 PM | 30 | 84 | 69 | 0 | 79 | 61 | 27 | 0 | 53 | 151 | 6 | 0 | 3 | 75 | 32 | 0 | 670 |
| 04:30 PM | 27 | 84 | 75 | 0 | 76 | 70 | 35 | 0 | 55 | 97 | 5 | 0 | 3 | 76 | 29 | 0 | 632 |
| 04:45 PM | 27 | 94 | 79 | 0 | 76 | 67 | 41 | 0 | 53 | 107 | 4 | 0 | 10 | 60 | 27 | 0 | 645 |
| Total | 115 | 362 | 309 | 0 | 319 | 276 | 154 | 0 | 224 | 467 | 17 | 0 | 21 | 289 | 126 | 0 | 2679 |
| 05:00 PM | 25 | 84 | 118 | 0 | 81 | 58 | 45 | 0 | 68 | 112 | 7 | 0 | 2 | 73 | 25 | 0 | 698 |
| 05:15 PM | 29 | 94 | 135 | 1 | 83 | 64 | 38 | 1 | 80 | 109 | 6 | 0 | 0 | 68 | 20 | 0 | 728 |
| 05:30 PM | 25 | 96 | 105 | 1 | 100 | 71 | 49 | 0 | 50 | 90 | 1 | 0 | 0 | 66 | 20 | 0 | 674 |
| 05:45 PM | 31 | 89 | 107 | 0 | 65 | 66 | 22 | 0 | 54 | 103 | 3 | 0 | 0 | 64 | 23 | 0 | 627 |
| Total | 110 | 363 | 465 | 2 | 329 | 259 | 154 | 1 | 252 | 414 | 17 | 0 | 2 | 271 | 88 | 0 | 2727 |
| Grand Total | 225 | 725 | 774 | 2 | 648 | 535 | 308 | 1 | 476 | 881 | 34 | 0 | 23 | 560 | 214 | 0 | 5406 |
| Apprch \% | 13 | 42 | 44.8 | 0.1 | 43.4 | 35.9 | 20.6 | 0.1 | 34.2 | 63.3 | 2.4 | 0 | 2.9 | 70.3 | 26.9 | 0 |  |
| Total \% | 4.2 | 13.4 | 14.3 | 0 | 12 | 9.9 | 5.7 | 0 | 8.8 | 16.3 | 0.6 | 0 | 0.4 | 10.4 | 4 | 0 |  |



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File Name : \#3 I70B\&32PM
Site Code : 00000000
Start Date : 11/13/2014 Page No : 2

|  | I-70B <br> Southbound |  |  |  |  | 32 ROAD (HWY 141) Westbound |  |  |  |  | I-70B <br> Northbound |  |  |  |  | 32 ROAD (HWY 141) Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:45 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:45 PM | 27 | 94 | 79 | 0 | 200 | 76 | 67 | 41 | 0 | 184 | 53 | 107 | 4 | 0 | 164 | 10 | 60 | 27 | 0 | 97 | 645 |
| 05:00 PM | 25 | 84 | 118 | 0 | 227 | 81 | 58 | 45 | 0 | 184 | 68 | 112 | 7 | 0 | 187 | 2 | 73 | 25 | 0 | 100 | 698 |
| 05:15 PM | 29 | 94 | 135 | 1 | 259 | 83 | 64 | 38 | 1 | 186 | 80 | 109 | 6 | 0 | 195 | 0 | 68 | 20 | 0 | 88 | 728 |
| 05:30 PM | 25 | 96 | 105 | 1 | 227 | 100 | 71 | 49 | 0 | 220 | 50 | 90 | 1 | 0 | 141 | 0 | 66 | 20 | 0 | 86 | 674 |
| Total Volume | 106 | 368 | 437 | 2 | 913 | 340 | 260 | 173 | 1 | 774 | 251 | 418 | 18 | 0 | 687 | 12 | 267 | 92 | 0 | 371 | 2745 |
| \% App. Total | 11.6 | 40.3 | 47.9 | 0.2 |  | 43.9 | 33.6 | 22.4 | 0.1 |  | 36.5 | 60.8 | 2.6 | 0 |  | 3.2 | 72 | 24.8 | 0 |  |  |
| PHF | . 914 | . 958 | . 809 | . 500 | . 881 | . 850 | . 915 | . 883 | . 250 | . 880 | . 784 | . 933 | . 643 | . 000 | . 881 | . 300 | . 914 | . 852 | . 000 | . 928 | . 943 |



All Traffic Data Services,Inc.
9660 W 44th Ave
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File Name: \#4 1ST\&FRDAM
Site Code : 00000000
Start Date : 11/13/2014
Page No : 1

Groups Printed- Class 1

|  | 1ST ST <br> Southbound |  |  |  | F ROAD (US 6) Westbound |  |  |  | 1ST ST Northbound |  |  |  | F ROAD (US 6)Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 07:00 AM | 4 | 1 | 2 | 0 | 1 | 130 | 14 | 0 | 8 | 3 | 10 | 0 | 13 | 123 | 3 | 0 | 312 |
| 07:15 AM | 5 | 0 | 0 | 0 | 2 | 176 | 29 | 0 | 3 | 5 | 11 | 0 | 16 | 64 | 1 | 0 | 312 |
| 07:30 AM | 2 | 1 | 3 | 0 | 2 | 157 | 18 | 0 | 20 | 4 | 24 | 0 | 21 | 68 | 2 | 0 | 322 |
| 07:45 AM | 4 | 1 | 3 | 0 | 5 | 104 | 19 | 0 | 14 | 7 | 17 | 0 | 22 | 89 | 6 | 0 | 291 |
| Total | 15 | 3 | 8 | 0 | 10 | 567 | 80 | 0 | 45 | 19 | 62 | 0 | 72 | 344 | 12 | 0 | 1237 |
| 08:00 AM | 3 | 1 | 2 | 0 | 2 | 111 | 12 | 0 | 12 | 6 | 8 | 0 | 21 | 76 | 6 | 0 | 260 |
| 08:15 AM | 6 | 1 | 2 | 0 | 2 | 113 | 19 | 0 | 17 | 7 | 13 | 0 | 15 | 75 | 3 | 0 | 273 |
| 08:30 AM | 4 | 2 | 1 | 0 | 0 | 118 | 22 | 0 | 15 | 2 | 8 | 2 | 27 | 68 | 5 | 1 | 275 |
| 08:45 AM | 9 | 1 | 3 | 1 | 1 | 112 | 22 | 0 | 16 | 3 | 10 | 1 | 15 | 73 | 8 | 0 | 275 |
| Total | 22 | 5 | 8 | 1 | 5 | 454 | 75 | 0 | 60 | 18 | 39 | 3 | 78 | 292 | 22 | 1 | 1083 |
| Grand Total | 37 | 8 | 16 | 1 | 15 | 1021 | 155 | 0 | 105 | 37 | 101 | 3 | 150 | 636 | 34 | 1 | 2320 |
| Apprch \% | 59.7 | 12.9 | 25.8 | 1.6 | 1.3 | 85.7 | 13 | 0 | 42.7 | 15 | 41.1 | 1.2 | 18.3 | 77.5 | 4.1 | 0.1 |  |
| Total \% | 1.6 | 0.3 | 0.7 | 0 | 0.6 | 44 | 6.7 | 0 | 4.5 | 1.6 | 4.4 | 0.1 | 6.5 | 27.4 | 1.5 | 0 |  |


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Wheat Ridge,CO 80033
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File Name : \#4 1ST\&FRDAM
Site Code : 00000000
Start Date : 11/13/2014 Page No : 2

|  | 1ST ST Southbound |  |  |  |  | F ROAD (US 6) <br> Westbound |  |  |  |  | 1ST ST Northbound |  |  |  |  | F ROAD (US 6) Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:00 AM | 4 | 1 | 2 | 0 | 7 | 1 | 130 | 14 | 0 | 145 | 8 | 3 | 10 | 0 | 21 | 13 | 123 | 3 | 0 | 139 | 312 |
| 07:15 AM | 5 | 0 | 0 | 0 | 5 | 2 | 176 | 29 | 0 | 207 | 3 | 5 | 11 | 0 | 19 | 16 | 64 | 1 | 0 | 81 | 312 |
| 07:30 AM | 2 | 1 | 3 | 0 | 6 | 2 | 157 | 18 | 0 | 177 | 20 | 4 | 24 | 0 | 48 | 21 | 68 | 2 | 0 | 91 | 322 |
| 07:45 AM | 4 | 1 | 3 | 0 | 8 | 5 | 104 | 19 | 0 | 128 | 14 | 7 | 17 | 0 | 38 | 22 | 89 | 6 | 0 | 117 | 291 |
| Total Volume | 15 | 3 | 8 | 0 | 26 | 10 | 567 | 80 | 0 | 657 | 45 | 19 | 62 | 0 | 126 | 72 | 344 | 12 | 0 | 428 | 1237 |
| \% App. Total | 57.7 | 11.5 | 30.8 | 0 |  | 1.5 | 86.3 | 12.2 | 0 |  | 35.7 | 15.1 | 49.2 | 0 |  | 16.8 | 80.4 | 2.8 | 0 |  |  |
| PHF | . 750 | . 750 | . 667 | . 000 | . 813 | . 500 | . 805 | . 690 | . 000 | . 793 | . 563 | . 679 | . 646 | . 000 | . 656 | . 818 | 699 | . 500 | 000 | . 770 | . 960 |



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File Name: \#4 1ST\&FRDPM
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Page No : 1

Groups Printed- Class 1

|  | 1ST ST Southbound |  |  |  | F ROAD (US 6) Westbound |  |  |  | 1ST ST Northbound |  |  |  | $\begin{aligned} & \text { F ROAD (US 6) } \\ & \text { Eastbound } \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 04:00 PM | 9 | 2 | 2 | 0 | 6 | 125 | 29 | 1 | 44 | 2 | 16 | 0 | 23 | 154 | 9 | 0 | 422 |
| 04:15 PM | 8 | 3 | 7 | 0 | 4 | 94 | 22 | 0 | 38 | 7 | 14 | 0 | 27 | 188 | 11 | 0 | 423 |
| 04:30 PM | 9 | 2 | 7 | 0 | 5 | 123 | 26 | 0 | 45 | 7 | 22 | 0 | 42 | 124 | 10 | 1 | 423 |
| 04:45 PM | 16 | 2 | 4 | 0 | 3 | 130 | 28 | 0 | 32 | 1 | 24 | 0 | 20 | 163 | 11 | 0 | 434 |
| Total | 42 | 9 | 20 | 0 | 18 | 472 | 105 | 1 | 159 | 17 | 76 | 0 | 112 | 629 | 41 | 1 | 1702 |
| 05:00 PM | 3 | 2 | 3 | 0 | 6 | 115 | 26 | 0 | 39 | 2 | 11 | 0 | 27 | 154 | 5 | 0 | 393 |
| 05:15 PM | 12 | 0 | 1 | 0 | 1 | 109 | 27 | 0 | 45 | 3 | 16 | 0 | 30 | 169 | 9 | 0 | 422 |
| 05:30 PM | 4 | 1 | 1 | 0 | 2 | 100 | 28 | 4 | 47 | 6 | 18 | 0 | 32 | 160 | 6 | 0 | 409 |
| 05:45 PM | 13 | 3 | 1 | 0 | 2 | 83 | 23 | 0 | 37 | 0 | 18 | 0 | 21 | 159 | 15 | 1 | 376 |
| Total | 32 | 6 | 6 | 0 | 11 | 407 | 104 | 4 | 168 | 11 | 63 | 0 | 110 | 642 | 35 | 1 | 1600 |
| Grand Total | 74 | 15 | 26 | 0 | 29 | 879 | 209 | 5 | 327 | 28 | 139 | 0 | 222 | 1271 | 76 | 2 | 3302 |
| Apprch \% | 64.3 | 13 | 22.6 | 0 | 2.6 | 78.3 | 18.6 | 0.4 | 66.2 | 5.7 | 28.1 | 0 | 14.1 | 80.9 | 4.8 | 0.1 |  |
| Total \% | 2.2 | 0.5 | 0.8 | 0 | 0.9 | 26.6 | 6.3 | 0.2 | 9.9 | 0.8 | 4.2 | 0 | 6.7 | 38.5 | 2.3 | 0.1 |  |


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All Traffic Data Services,Inc.
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File Name: \#4 1ST\&FRDPM
Site Code : 00000000
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Page No : 2

|  | 1ST ST Southbound |  |  |  |  | F ROAD (US 6) <br> Westbound |  |  |  |  | 1ST ST <br> Northbound |  |  |  |  | F ROAD (US 6) Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:00 PM | 9 | 2 | 2 | 0 | 13 | 6 | 125 | 29 | 1 | 161 | 44 | 2 | 16 | 0 | 62 | 23 | 154 | 9 | 0 | 186 | 422 |
| 04:15 PM | 8 | 3 | 7 | 0 | 18 | 4 | 94 | 22 | 0 | 120 | 38 | 7 | 14 | 0 | 59 | 27 | 188 | 11 | 0 | 226 | 423 |
| 04:30 PM | 9 | 2 | 7 | 0 | 18 | 5 | 123 | 26 | 0 | 154 | 45 | 7 | 22 | 0 | 74 | 42 | 124 | 10 | 1 | 177 | 423 |
| 04:45 PM | 16 | 2 | 4 | 0 | 22 | 3 | 130 | 28 | 0 | 161 | 32 | 1 | 24 | 0 | 57 | 20 | 163 | 11 | 0 | 194 | 434 |
| Total Volume | 42 | 9 | 20 | 0 | 71 | 18 | 472 | 105 | 1 | 596 | 159 | 17 | 76 | 0 | 252 | 112 | 629 | 41 | 1 | 783 | 1702 |
| \% App. Total | 59.2 | 12.7 | 28.2 | 0 |  | 3 | 79.2 | 17.6 | 0.2 |  | 63.1 | 6.7 | 30.2 | 0 |  | 14.3 | 80.3 | 5.2 | 0.1 |  |  |
| PHF | . 656 | . 750 | . 714 | . 000 | . 807 | . 750 | . 908 | . 905 | . 250 | . 925 | . 883 | . 607 | 792 | . 000 | . 851 | . 667 | . 836 | . 932 | . 250 | . 866 | . 980 |



All Traffic Data Services,Inc. 9660 W 44th Ave Wheat Ridge,CO 80033 www.alltrafficdata.net

File Name : \#5 33RD\&FRDAM
Site Code : 00000000
Start Date : 11/13/2014
Page No : 1

Groups Printed- Class 1

|  | 33 RD Southbound |  |  |  | F ROAD (US 6) Westbound |  |  |  | 33 RD Northbound |  |  |  | F ROAD (US 6) <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 07:00 AM | 27 | 2 | 4 | 0 | 3 | 112 | 15 | 0 | 13 | 2 | 35 | 0 | 8 | 53 | 4 | 0 | 278 |
| 07:15 AM | 34 | 2 | 1 | 0 | 1 | 87 | 10 | 0 | 8 | 1 | 39 | 0 | 15 | 41 | 9 | 0 | 248 |
| 07:30 AM | 29 | 10 | 4 | 0 | 0 | 63 | 7 | 0 | 11 | 1 | 27 | 0 | 11 | 47 | 8 | 0 | 218 |
| 07:45 AM | 24 | 7 | 2 | 0 | 0 | 44 | 6 | 0 | 5 | 4 | 24 | 0 | 7 | 30 | 11 | 0 | 164 |
| Total | 114 | 21 | 11 | 0 | 4 | 306 | 38 | 0 | 37 | 8 | 125 | 0 | 41 | 171 | 32 | 0 | 908 |
| 08:00 AM | 31 | 1 | 1 | 0 | 1 | 42 | 5 | 0 | 5 | 4 | 35 | 0 | 14 | 42 | 7 | 0 | 188 |
| 08:15 AM | 30 | 6 | 1 | 0 | 0 | 51 | 5 | 0 | 14 | 2 | 24 | 0 | 16 | 39 | 10 | 0 | 198 |
| 08:30 AM | 26 | 1 | 2 | 0 | 1 | 56 | 13 | 0 | 8 | 7 | 13 | 0 | 13 | 47 | 8 | 0 | 195 |
| 08:45 AM | 15 | 3 | 1 | 0 | 1 | 72 | 1 | 0 | 2 | 2 | 11 | 0 | 12 | 41 | 8 | 0 | 169 |
| Total | 102 | 11 | 5 | 0 | 3 | 221 | 24 | 0 | 29 | 15 | 83 | 0 | 55 | 169 | 33 | 0 | 750 |
| Grand Total | 216 | 32 | 16 | 0 | 7 | 527 | 62 | 0 | 66 | 23 | 208 | 0 | 96 | 340 | 65 | 0 | 1658 |
| Apprch \% | 81.8 | 12.1 | 6.1 | 0 | 1.2 | 88.4 | 10.4 | 0 | 22.2 | 7.7 | 70 | 0 | 19.2 | 67.9 | 13 | 0 |  |
| Total \% | 13 | 1.9 | 1 | 0 | 0.4 | 31.8 | 3.7 | 0 | 4 | 1.4 | 12.5 | 0 | 5.8 | 20.5 | 3.9 | 0 |  |



All Traffic Data Services,Inc.
9660 W 44th Ave
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File Name : \#5 33RD\&FRDAM
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|  | 33 RD Southbound |  |  |  |  | F ROAD (US 6) <br> Westbound |  |  |  |  | 33 RD <br> Northbound |  |  |  |  | F ROAD (US 6) Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:00 AM | 27 | 2 | 4 | 0 | 33 | 3 | 112 | 15 | 0 | 130 | 13 | 2 | 35 | 0 | 50 | 8 | 53 | 4 | 0 | 65 | 278 |
| 07:15 AM | 34 | 2 | 1 | 0 | 37 | 1 | 87 | 10 | 0 | 98 | 8 | 1 | 39 | 0 | 48 | 15 | 41 | 9 | 0 | 65 | 248 |
| 07:30 AM | 29 | 10 | 4 | 0 | 43 | 0 | 63 | 7 | 0 | 70 | 11 | 1 | 27 | 0 | 39 | 11 | 47 | 8 | 0 | 66 | 218 |
| 07:45 AM | 24 | 7 | 2 | 0 | 33 | 0 | 44 | 6 | 0 | 50 | 5 | 4 | 24 | 0 | 33 | 7 | 30 | 11 | 0 | 48 | 164 |
| Total Volume | 114 | 21 | 11 | 0 | 146 | 4 | 306 | 38 | 0 | 348 | 37 | 8 | 125 | 0 | 170 | 41 | 171 | 32 | 0 | 244 | 908 |
| \% App. Total | 78.1 | 14.4 | 7.5 | 0 |  | 1.1 | 87.9 | 10.9 | 0 |  | 21.8 | 4.7 | 73.5 | 0 |  | 16.8 | 70.1 | 13.1 | 0 |  |  |
| PHF | . 838 | . 525 | . 688 | . 000 | . 849 | . 333 | . 683 | . 633 | . 000 | . 669 | . 712 | . 500 | . 801 | . 000 | . 850 | . 683 | . 807 | . 727 | . 000 | . 924 | . 817 |



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File Name : \#5 33RD\&FRDPM
Site Code : 00000000
Start Date : 11/13/2014
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Groups Printed- Class 1

|  | 33 RD <br> Southbound |  |  |  | F ROAD (US 6) Westbound |  |  |  | 33 RD Northbound |  |  |  | F ROAD (US 6) <br> Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Right | Thru | Left | Peds | Int. Total |
| 04:00 PM | 17 | 4 | 4 | 0 | 1 | 54 | 10 | 0 | 9 | 9 | 17 | 0 | 22 | 102 | 28 | 0 | 277 |
| 04:15 PM | 17 | 3 | 1 | 0 | 0 | 67 | 10 | 0 | 17 | 6 | 23 | 0 | 31 | 84 | 27 | 0 | 286 |
| 04:30 PM | 20 | 3 | 0 | 0 | 2 | 90 | 15 | 0 | 4 | 13 | 20 | 0 | 27 | 77 | 27 | 0 | 298 |
| 04:45 PM | 19 | 2 | 1 | 0 | 3 | 69 | 8 | 0 | 18 | 6 | 23 | 0 | 38 | 80 | 29 | 1 | 297 |
| Total | 73 | 12 | 6 | 0 | 6 | 280 | 43 | 0 | 48 | 34 | 83 | 0 | 118 | 343 | 111 | 1 | 1158 |
| 05:00 PM | 23 | 2 | 1 | 0 | 1 | 61 | 21 | 0 | 7 | 3 | 21 | 0 | 38 | 108 | 27 | 0 | 313 |
| 05:15 PM | 20 | 9 | 1 | 0 | 2 | 57 | 8 | 0 | 10 | 5 | 24 | 0 | 49 | 80 | 37 | 0 | 302 |
| 05:30 PM | 16 | 6 | 0 | 0 | 1 | 51 | 7 | 0 | 15 | 3 | 20 | 0 | 31 | 90 | 25 | 0 | 265 |
| 05:45 PM | 27 | 1 | 1 | 0 | 5 | 62 | 13 | 0 | 8 | 2 | 15 | 0 | 33 | 71 | 24 | 0 | 262 |
| Total | 86 | 18 | 3 | 0 | 9 | 231 | 49 | 0 | 40 | 13 | 80 | 0 | 151 | 349 | 113 | 0 | 1142 |
| Grand Total | 159 | 30 | 9 | 0 | 15 | 511 | 92 | 0 | 88 | 47 | 163 | 0 | 269 | 692 | 224 | 1 | 2300 |
| Apprch \% | 80.3 | 15.2 | 4.5 | 0 | 2.4 | 82.7 | 14.9 | 0 | 29.5 | 15.8 | 54.7 | 0 | 22.7 | 58.3 | 18.9 | 0.1 |  |
| Total \% | 6.9 | 1.3 | 0.4 | 0 | 0.7 | 22.2 | 4 | 0 | 3.8 | 2 | 7.1 | 0 | 11.7 | 30.1 | 9.7 | 0 |  |



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Wheat Ridge,CO 80033
www.alltrafficdata.net

File Name : \#5 33RD\&FRDPM
Site Code : 00000000
Start Date : 11/13/2014
Page No : 2

|  | 33 RD Southbound |  |  |  |  | F ROAD (US 6) <br> Westbound |  |  |  |  | 33 RD <br> Northbound |  |  |  |  | F ROAD (US 6) Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:30 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:30 PM | 20 | 3 | 0 | 0 | 23 | 2 | 90 | 15 | 0 | 107 | 4 | 13 | 20 | 0 | 37 | 27 | 77 | 27 | 0 | 131 | 298 |
| 04:45 PM | 19 | 2 | 1 | 0 | 22 | 3 | 69 | 8 | 0 | 80 | 18 | 6 | 23 | 0 | 47 | 38 | 80 | 29 | 1 | 148 | 297 |
| 05:00 PM | 23 | 2 | 1 | 0 | 26 | 1 | 61 | 21 | 0 | 83 | 7 | 3 | 21 | 0 | 31 | 38 | 108 | 27 | 0 | 173 | 313 |
| 05:15 PM | 20 | 9 | 1 | 0 | 30 | 2 | 57 | 8 | 0 | 67 | 10 | 5 | 24 | 0 | 39 | 49 | 80 | 37 | 0 | 166 | 302 |
| Total Volume | 82 | 16 | 3 | 0 | 101 | 8 | 277 | 52 | 0 | 337 | 39 | 27 | 88 | 0 | 154 | 152 | 345 | 120 | 1 | 618 | 1210 |
| \% App. Total | 81.2 | 15.8 | 3 | 0 |  | 2.4 | 82.2 | 15.4 | 0 |  | 25.3 | 17.5 | 57.1 | 0 |  | 24.6 | 55.8 | 19.4 | 0.2 |  |  |
| PHF | . 891 | . 444 | . 750 | . 000 | . 842 | . 667 | . 769 | . 619 | . 000 | . 787 | . 542 | . 519 | . 917 | 000 | . 819 | . 776 | 799 | 811 | . 250 | . 893 | . 966 |



|  | $\rightarrow$ | $\rightarrow$ | 2 | m | 4 | 1 | $\cdots$ | 7 | $\stackrel{+}{ }$ | 4 | 1 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ${ }^{7}$ | 中 ${ }^{\text {a }}$ |  | ${ }^{*}$ | 郎 |  | ${ }^{1}$ | 44 | 「 | ${ }^{7}$ | 44 | 「 |
| Volume（veh／h） | 135 | 215 | 50 | 250 | 295 | 110 | 50 | 350 | 150 | 60 | 230 | 60 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$ ，veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus，Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow，veh／h／ln | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 |
| Adj Flow Rate，veh／h | 147 | 234 | 0 | 272 | 321 | 0 | 54 | 380 | 0 | 65 | 250 | 65 |
| Adj No．of Lanes | 1 | 2 | 0 | 1 | 2 | 0 | 1 | 2 | 1 | 1 | 2 | 1 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh，\％ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap，veh／h | 374 | 459 | 0 | 445 | 678 | 0 | 455 | 1490 | 667 | 436 | 1493 | 668 |
| Arrive On Green | 0.09 | 0.13 | 0.00 | 0.16 | 0.19 | 0.00 | 0.07 | 0.84 | 0.00 | 0.02 | 0.42 | 0.42 |
| Sat Flow，veh／h | 1774 | 3632 | 0 | 1774 | 3632 | 0 | 1774 | 3539 | 1583 | 1774 | 3539 | 1583 |
| Grp Volume（v），veh／h | 147 | 234 | 0 | 272 | 321 | 0 | 54 | 380 | 0 | 65 | 250 | 65 |
| Grp Sat Flow（s），veh／h／ln | 1774 | 1770 | 0 | 1774 | 1770 | 0 | 1774 | 1770 | 1583 | 1774 | 1770 | 1583 |
| Q Serve（g＿s），s | 5.6 | 4.9 | 0.0 | 9.9 | 6.4 | 0.0 | 1.5 | 1.7 | 0.0 | 0.0 | 3.5 | 2.0 |
| Cycle Q Clear（g＿c），s | 5.6 | 4.9 | 0.0 | 9.9 | 6.4 | 0.0 | 1.5 | 1.7 | 0.0 | 0.0 | 3.5 | 2.0 |
| Prop In Lane | 1.00 |  | 0.00 | 1.00 |  | 0.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 |
| Lane Grp Cap（c），veh／h | 374 | 459 | 0 | 445 | 678 | 0 | 455 | 1490 | 667 | 436 | 1493 | 668 |
| V／C Ratio（X） | 0.39 | 0.51 | 0.00 | 0.61 | 0.47 | 0.00 | 0.12 | 0.25 | 0.00 | 0.15 | 0.17 | 0.10 |
| Avail Cap（c＿a），veh／h | 542 | 1246 | 0 | 614 | 1468 | 0 | 806 | 1490 | 667 | 774 | 1493 | 668 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter（l） | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.95 | 0.95 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay（d），s／veh | 26.2 | 32.3 | 0.0 | 22.7 | 28.6 | 0.0 | 14.9 | 3.8 | 0.0 | 19.2 | 14.3 | 13.9 |
| Incr Delay（d2），s／veh | 0.7 | 0.9 | 0.0 | 1.4 | 0.5 | 0.0 | 0.1 | 0.4 | 0.0 | 0.2 | 0.2 | 0.3 |
| Initial Q Delay（d3），s／veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| \％ile BackOfQ（50\％），veh／In | 2.8 | 2.5 | 0.0 | 4.9 | 3.2 | 0.0 | 0.7 | 0.8 | 0.0 | 1.0 | 1.8 | 0.9 |
| LnGrp Delay（d），s／veh | 26.8 | 33.1 | 0.0 | 24.1 | 29.1 | 0.0 | 15.0 | 4.2 | 0.0 | 19.4 | 14.5 | 14.2 |
| LnGrp LOS | C | C |  | C | C |  | B | A |  | B | B | B |
| Approach Vol，veh／h |  | 381 |  |  | 593 |  |  | 434 |  |  | 380 |  |
| Approach Delay，s／veh |  | 30.7 |  |  | 26.8 |  |  | 5.5 |  |  | 15.3 |  |
| Approach LOS |  | C |  |  | C |  |  | A |  |  | B |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Phs Duration（ $G+Y+R \mathrm{c}$ ），s | 48.3 | 39.0 | 16.4 | 16.3 | 7.3 | 80.0 | 11.5 | 21.2 |  |  |  |  |
| Change Period（ $\mathrm{Y}+\mathrm{Rc}$ ），s | 6.0 | 5.5 | 4.0 | 6.0 | 4.5 | 6.0 | 4.0 | 6.0 |  |  |  |  |
| Max Green Setting（Gmax），s | 17.0 | 33.5 | 20.0 | 28.0 | 18.5 | 33.0 | 15.0 | 33.0 |  |  |  |  |
| Max Q Clear Time（g＿c＋l1），s | 2.0 | 3.7 | 11.9 | 6.9 | 3.5 | 5.5 | 7.6 | 8.4 |  |  |  |  |
| Green Ext Time（p＿c），s | 0.2 | 2.3 | 0.5 | 3.4 | 0.1 | 1.7 | 0.2 | 3.5 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 20.0 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | C |  |  |  |  |  |  |  |  |  |


| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \％ | 个4 | 「 | \％ | ＾4 | 「 | 7 | 个4 | 「 | ${ }^{7 *}$ | 个4 | F |
| Volume（veh／h） | 45 | 120 | 5 | 235 | 200 | 330 | 5 | 215 | 90 | 140 | 360 | 65 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $\mathrm{Q}(\mathrm{Qb})$ ，veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus，Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow，veh／h／ln | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 |
| Adj Flow Rate，veh／h | 49 | 130 | 0 | 263 | 206 | 0 | 5 | 234 | 0 | 152 | 391 | 0 |
| Adj No．of Lanes | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh，\％ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap，veh／h | 119 | 237 | 106 | 1134 | 595 | 506 | 250 | 1052 | 471 | 796 | 1279 | 572 |
| Arrive On Green | 0.07 | 0.07 | 0.00 | 0.32 | 0.32 | 0.00 | 0.00 | 0.10 | 0.00 | 0.05 | 0.36 | 0.00 |
| Sat Flow，veh／h | 1774 | 3539 | 1583 | 3548 | 1863 | 1583 | 1774 | 3539 | 1583 | 3442 | 3539 | 1583 |
| Grp Volume（v），veh／h | 49 | 130 | 0 | 263 | 206 | 0 | 5 | 234 | 0 | 152 | 391 | 0 |
| Grp Sat Flow（s），veh／h／n | 1774 | 1770 | 1583 | 1774 | 1863 | 1583 | 1774 | 1770 | 1583 | 1721 | 1770 | 1583 |
| Q Serve（g＿s），s | 2.4 | 3.2 | 0.0 | 4.9 | 7.5 | 0.0 | 0.2 | 5.4 | 0.0 | 0.0 | 7.1 | 0.0 |
| Cycle Q Clear（g＿c），s | 2.4 | 3.2 | 0.0 | 4.9 | 7.5 | 0.0 | 0.2 | 5.4 | 0.0 | 0.0 | 7.1 | 0.0 |
| Prop In Lane | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 |
| Lane Grp Cap（c），veh／h | 119 | 237 | 106 | 1134 | 595 | 506 | 250 | 1052 | 471 | 796 | 1279 | 572 |
| V／C Ratio（X） | 0.41 | 0.55 | 0.00 | 0.23 | 0.35 | 0.00 | 0.02 | 0.22 | 0.00 | 0.19 | 0.31 | 0.00 |
| Avail Cap（c＿a），veh／h | 527 | 1052 | 471 | 1134 | 595 | 506 | 410 | 1052 | 471 | 1195 | 1370 | 613 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.33 | 0.33 | 0.33 | 1.00 | 1.00 | 1.00 |
| Upstream Filter（l） | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.99 | 0.99 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay（d），s／veh | 39.9 | 40.3 | 0.0 | 22.3 | 23.2 | 0.0 | 24.4 | 30.7 | 0.0 | 26.2 | 20.4 | 0.0 |
| Incr Delay（d2），s／veh | 2.3 | 2.0 | 0.0 | 0.5 | 1.6 | 0.0 | 0.0 | 0.5 | 0.0 | 0.1 | 0.1 | 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 | 0.0 | 0.0 | 0.0 |
| \％ile BackOfQ $(50 \%$ ），veh／ln | 1.2 | 1.6 | 0.0 | 2.4 | 4.2 | 0.0 | 0.1 | 2.7 | 0.0 | 1.5 | 3.4 | 0.0 |
| LnGrp Delay（d），s／veh | 42.2 | 42.2 | 0.0 | 22.8 | 24.8 | 0.0 | 24.5 | 31.2 | 0.0 | 26.3 | 20.6 | 0.0 |
| LnGrp LOS | D | D |  | C | C |  | C | C |  | C | C |  |
| Approach Vol，veh／h |  | 179 |  |  | 469 |  |  | 239 |  |  | 543 |  |
| Approach Delay，s／veh |  | 42.2 |  |  | 23.6 |  |  | 31.0 |  |  | 22.2 |  |
| Approach LOS |  | D |  |  | C |  |  | C |  |  | C |  |


| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Assigned Phs | 1 | 2 | 4 | 5 | 6 | 8 |  |
| Phs Duration（G＋Y＋Rc），s | 41.5 | 33.0 | 11.5 | 5.0 | 69.6 | 34.0 |  |
| Change Period（Y＋Rc），s | 6.5 | 6.5 | 5.5 | 4.5 | 6.5 | 5.5 |  |
| Max Green Setting（Gmax），s | 14.5 | 26.5 | 26.5 | 8.5 | 34.5 | 28.5 |  |
| Max Q Clear Time（g＿c＋11），s | 2.0 | 7.4 | 5.2 | 2.2 | 9.1 | 9.5 |  |
| Green Ext Time（p＿c），s | 2.3 | 1.2 | 0.9 | 0.0 | 2.9 | 1.9 |  |

Intersection Summary
HCM 2010 Ctrl Delay
26.7

HCM 2010 LOS
C

## Notes

User approved volume balancing among the lanes for turning movement．

|  | $\rangle$ | $\rightarrow$ |  | $\dagger$ |  | 4 | 4 | $\dagger$ | \% |  | $\dagger$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ${ }^{4}$ | $\uparrow$ |  | ${ }_{1}$ | $\uparrow$ | F' | ${ }_{7}$ | $\hat{\square}$ |  | ${ }_{1}$ | $\uparrow$ |  |
| Volume (veh/h) | 30 | 170 | 40 | 40 | 305 | 5 | 125 | 10 | 35 | 10 | 20 | 115 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$, veh | 0 | - | 0 | 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 |  | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 |
| Adj Flow Rate, veh/h | 33 | 185 | 43 | 43 | 332 | 5 | 136 | 11 | 38 | 11 | 22 | 125 |
| Adj No. of Lanes | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 320 | 444 | 103 | 394 | 565 | 480 | 741 | 190 | 657 | 840 | 125 | 712 |
| Arrive On Green | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| Sat Flow, veh/h | 1039 | 1463 | 340 | 1148 | 1863 | 1583 | 1236 | 368 | 1271 | 1351 | 242 | 1377 |
| Grp Volume(v), veh/h | 33 | 0 | 228 | 43 | 332 | 5 | 136 | 0 | 49 | 11 | 0 | 147 |
| Grp Sat Flow(s),veh/h/n | 1039 | 0 | 1803 | 1148 | 1863 | 1583 | 1236 | 0 | 1639 | 1351 | 0 | 1620 |
| Q Serve(g_s), s | 1.2 | 0.0 | 4.5 | 1.4 | 6.7 | 0.1 | 2.9 | 0.0 | 0.7 | 0.2 | 0.0 | 2.1 |
| Cycle Q Clear(g_c), s | 8.0 | 0.0 | 4.5 | 5.9 | 6.7 | 0.1 | 5.1 | 0.0 | 0.7 | 0.8 | 0.0 | 2.1 |
| Prop In Lane | 1.00 |  | 0.19 | 1.00 |  | 1.00 | 1.00 |  | 0.78 | 1.00 |  | 0.85 |
| Lane Grp Cap (c), veh/h | 320 | 0 | 547 | 394 | 565 | 480 | 741 | 0 | 847 | 840 | 0 | 837 |
| V/C Ratio(X) | 0.10 | 0.00 | 0.42 | 0.11 | 0.59 | 0.01 | 0.18 | 0.00 | 0.06 | 0.01 | 0.00 | 0.18 |
| Avail Cap(c_a), veh/h | 682 | 0 | 1175 | 794 | 1214 | 1032 | 741 | 0 | 847 | 840 | 0 | 837 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(1) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 16.5 | 0.0 | 12.4 | 14.7 | 13.1 | 10.8 | 7.1 | 0.0 | 5.4 | 5.6 | 0.0 | 5.7 |
| Incr Delay (d2), s/veh | 0.1 | 0.0 | 0.5 | 0.1 | 1.0 | 0.0 | 0.5 | 0.0 | 0.1 | 0.0 | 0.0 | 0.5 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 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 | 0.0 | 2.3 | 0.4 | 3.6 | 0.0 | 1.1 | 0.0 | 0.3 | 0.1 | 0.0 | 1.0 |
| LnGrp Delay(d),s/veh | 16.7 | 0.0 | 12.9 | 14.8 | 14.1 | 10.8 | 7.6 | 0.0 | 5.5 | 5.6 | 0.0 | 6.2 |
| LnGrp LOS | B |  | B | B | B | B | A |  | A | A |  | A |
| Approach Vol, veh/h |  | 261 |  |  | 380 |  |  | 185 |  |  | 158 |  |
| Approach Delay, s/veh |  | 13.3 |  |  | 14.2 |  |  | 7.0 |  |  | 6.1 |  |
| Approach LOS |  | B |  |  | B |  |  | A |  |  | A |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs |  | 2 |  | 4 |  | 6 |  | 8 |  |  |  |  |
| Phs Duration ( $G+Y+R \mathrm{c}$ ), $s$ |  | 27.0 |  | 17.5 |  | 27.0 |  | 17.5 |  |  |  |  |
| Change Period ( $Y+R \mathrm{R}$ ), s |  | 4.0 |  | 4.0 |  | 4.0 |  | 4.0 |  |  |  |  |
| Max Green Setting (Gmax), s |  | 23.0 |  | 29.0 |  | 23.0 |  | 29.0 |  |  |  |  |
| Max Q Clear Time (g_c+1), s |  | 7.1 |  | 10.0 |  | 4.1 |  | 8.7 |  |  |  |  |
| Green Ext Time (p_c), s |  | 1.4 |  | 3.5 |  | 1.5 |  | 3.6 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 11.3 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | B |  |  |  |  |  |  |  |  |  |


|  | $\rangle$ | $\rightarrow$ |  | $\dagger$ |  | 4 | 4 | $\dagger$ | \% |  | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ${ }_{1}$ | $\uparrow$ | 7 | ${ }_{7}$ | $\uparrow$ |  | ${ }_{1}$ | $\hat{\square}$ |  | ${ }_{1}$ | $\uparrow$ |  |
| Volume (veh/h) | 10 | 345 | 70 | 80 | 580 | 10 | 60 | 20 | 45 | 10 | 5 | 15 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$, veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 |
| Adj Flow Rate, veh/h | 11 | 375 | 0 | 87 | 630 | 11 | 65 | 22 | 0 | 11 | 5 | 0 |
| Adj No. of Lanes | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 196 | 621 | 528 | 401 | 688 | 12 | 619 | 641 | 0 | 603 | 641 | 0 |
| Arrive On Green | 0.01 | 0.33 | 0.00 | 0.05 | 0.38 | 0.38 | 0.34 | 0.34 | 0.00 | 0.34 | 0.34 | 0.00 |
| Sat Flow, veh/h | 1774 | 1863 | 1583 | 1774 | 1825 | 32 | 1405 | 1863 | 0 | 1384 | 1863 | 0 |
| Grp Volume(v), veh/h | 11 | 375 | 0 | 87 | 0 | 641 | 65 | 22 | 0 | 11 | 5 | 0 |
| Grp Sat Flow(s),veh/h/n | 1774 | 1863 | 1583 | 1774 | 0 | 1857 | 1405 | 1863 | 0 | 1384 | 1863 | 0 |
| Q Serve(g_s), s | 0.2 | 8.8 | 0.0 | 1.6 | 0.0 | 17.2 | 1.7 | 0.4 | 0.0 | 0.3 | 0.1 | 0.0 |
| Cycle Q Clear(g_c), s | 0.2 | 8.8 | 0.0 | 1.6 | 0.0 | 17.2 | 1.8 | 0.4 | 0.0 | 0.7 | 0.1 | 0.0 |
| Prop In Lane | 1.00 |  | 1.00 | 1.00 |  | 0.02 | 1.00 |  | 0.00 | 1.00 |  | 0.00 |
| Lane Grp Cap (c), veh/h | 196 | 621 | 528 | 401 | 0 | 700 | 619 | 641 | 0 | 603 | 641 | 0 |
| V/C Ratio(X) | 0.06 | 0.60 | 0.00 | 0.22 | 0.00 | 0.92 | 0.11 | 0.03 | 0.00 | 0.02 | 0.01 | 0.00 |
| Avail Cap(c_a), veh/h | 447 | 712 | 605 | 575 | 0 | 710 | 619 | 641 | 0 | 603 | 641 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(1) | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 13.5 | 14.6 | 0.0 | 11.0 | 0.0 | 15.5 | 11.9 | 11.4 | 0.0 | 11.6 | 11.3 | 0.0 |
| Incr Delay (d2), s/veh | 0.1 | 1.1 | 0.0 | 0.3 | 0.0 | 16.5 | 0.3 | 0.1 | 0.0 | 0.1 | 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 | 0.0 | 0.0 | 0.0 |
| \%ile BackOfQ(50\%),veh/ln | 0.1 | 4.7 | 0.0 | 0.8 | 0.0 | 11.9 | 0.7 | 0.2 | 0.0 | 0.1 | 0.1 | 0.0 |
| LnGrp Delay(d),s/veh | 13.6 | 15.7 | 0.0 | 11.2 | 0.0 | 32.0 | 12.2 | 11.5 | 0.0 | 11.7 | 11.3 | 0.0 |
| LnGrp LOS | B | B |  | B |  | C | B | B |  | B | B |  |
| Approach Vol, veh/h |  | 386 |  |  | 728 |  |  | 87 |  |  | 16 |  |
| Approach Delay, s/veh |  | 15.6 |  |  | 29.5 |  |  | 12.0 |  |  | 11.6 |  |
| Approach LOS |  | B |  |  | C |  |  | B |  |  | B |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs |  | 2 | 3 | 4 |  | 6 | 7 | 8 |  |  |  |  |
| Phs Duration ( $G+Y+R \mathrm{c}$ ), $s$ |  | 30.7 | 6.9 | 22.4 |  | 30.7 | 4.6 | 24.7 |  |  |  |  |
| Change Period ( $Y+R \mathrm{c}$ ), s |  | 5.0 | 4.0 | 5.0 |  | 5.0 | 4.0 | 5.0 |  |  |  |  |
| Max Green Setting (Gmax), s |  | 18.0 | 8.0 | 20.0 |  | 18.0 | 8.0 | 20.0 |  |  |  |  |
| Max Q Clear Time (g_c+1), s |  | 3.8 | 3.6 | 10.8 |  | 2.7 | 2.2 | 19.2 |  |  |  |  |
| Green Ext Time (p_c), s |  | 0.2 | 0.1 | 4.4 |  | 0.2 | 0.0 | 0.5 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 23.6 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | C |  |  |  |  |  |  |  |  |  |


| Intersection |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 0.9 |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR |
| Vol, veh/h | 0 | 0 | 5 | 15 | 0 | 30 | 15 | 605 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 65 | - | - | - | 170 | - | 170 |
| Veh in Median Storage, \# | - | 0 | - | - | 0 | - | - | 0 |  |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 |  |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 |  | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 5 | 16 | 0 | 33 | 16 | 658 | 0 |
| Major/Minor | Minor2 |  |  | Minor1 |  |  | Major1 |  |  |
| Conflicting Flow All | 741 | 1070 | 185 | 886 | 1070 | 329 | 370 | 0 | 0 |
| Stage 1 | 380 | 380 | - | 690 | 690 | - | - | - |  |
| Stage 2 | 361 | 690 | - | 196 | 380 | - | - | - |  |
| Critical Hdwy | 7.54 | 6.54 | 6.94 | 7.54 | 6.54 | 6.94 | 4.14 | - |  |
| Critical Hdwy Stg 1 | 6.54 | 5.54 | - | 6.54 | 5.54 | - | - | - |  |
| Critical Hdwy Stg 2 | 6.54 | 5.54 | - | 6.54 | 5.54 | - | - | - |  |
| Follow-up Hdwy | 3.52 | 4.02 | 3.32 | 3.52 | 4.02 | 3.32 | 2.22 | - |  |
| Pot Cap-1 Maneuver | 305 | 220 | 826 | 239 | 220 | 667 | 1185 | - |  |
| Stage 1 | 614 | 612 | - | 401 | 444 | - | - | - |  |
| Stage 2 | 630 | 444 | - | 787 | 612 | - | - | - |  |
| Platoon blocked, \% |  |  |  |  |  |  |  | - |  |
| Mov Cap-1 Maneuver | 286 | 216 | 826 | 234 | 216 | 667 | 1185 | - |  |
| Mov Cap-2 Maneuver | 286 | 216 | - | 234 | 216 | - | - | - |  |
| Stage 1 | 606 | 608 | - | 396 | 438 | - | - | - |  |
| Stage 2 | 591 | 438 | - | 776 | 608 | - | - | - |  |


| Approach | EB | WB | NB |
| :--- | :---: | :---: | :---: |
| HCM Control Delay, s | 9.4 | 14.9 | 0.2 |
| HCM LOS | A | B |  |


| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | SBL | SBT | SBR |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- |
| Capacity (veh/h) | 1185 | - | - | - | 826 | 413 | 926 | - | - |
| HCM Lane V/C Ratio | 0.014 | - | - | - | 0.007 | 0.118 | 0.006 | - | - |
| HCM Control Delay (s) | 8.1 | - | - | 0 | 9.4 | 14.9 | 8.9 | 0 | - |
| HCM Lane LOS | A | - | - | A | A | B | A | A | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - | 0 | 0.4 | 0 | - | - |


| Intersection |  |  |  |
| :--- | ---: | ---: | ---: |
| Int Delay, s/veh |  |  |  |
|  | SBL | SBT | SBR |
| Movement | 5 | 340 | 5 |
| Vol, veh/h | 0 | 0 | 0 |
| Conflicting Peds, \#/hr | Free | Free | Free |
| Sign Control | - | - | None |
| RT Channelized | - | - | 160 |
| Storage Length | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | - |
| Grade, \% | 92 | 92 | 92 |
| Peak Hour Factor | 2 | 2 | 2 |
| Heavy Vehicles, \% | 5 | 370 | 5 |
| Mvmt Flow |  |  |  |


| Major/Minor | Major2 |  |  |
| :--- | ---: | :--- | :--- |
| Conflicting Flow All | 658 | 0 | 0 |
| $\quad$ Stage 1 | - | - | - |
| Stage 2 | - | - | - |
| Critical Hdwy | - | - | - |
| Critical Hdwy Stg 1 | - | - | - |
| Critical Hdwy Stg 2 | 2.22 | - | - |
| Follow-up Hdwy | 926 | - | - |
| Pot Cap-1 Maneuver | - | - | - |
| Stage 1 | - | - | - |
| Stage 2 | 926 | - | - |
| Platoon blocked, \% | - | - | - |
| Mov Cap-1 Maneuver | - | - | - |
| Mov Cap-2 Maneuver | - | - | - |
| Stage 1 |  |  |  |

Approach SB

HCM Control Delay, s 0.1
HCMLOS

## Minor Lane/Major Mvmt

|  | － | $\rightarrow$ | 2 | $\cdots$ | $\checkmark$ | $\pm$ | ＊ | 7 | $\rho$ | 4 | $\lambda$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ${ }^{*}$ | 中t |  | ${ }^{*}$ | 中 ${ }^{\text {a }}$ |  | ${ }^{7}$ | 44 | 「 | ${ }^{7}$ | 44 | 「 |
| Volume（veh／h） | 100 | 360 | 95 | 195 | 310 | 55 | 110 | 255 | 300 | 140 | 465 | 205 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q $(Q b)$ ，veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus，Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow，veh／h／ln | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 |
| Adj Flow Rate，veh／h | 109 | 391 | 0 | 212 | 337 | 0 | 120 | 277 | 0 | 152 | 505 | 223 |
| Adj No．of Lanes | 1 | 2 | 0 | 1 | 2 | 0 | 1 | 2 | 1 | 1 | 2 | 1 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh，\％ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap，veh／h | 348 | 601 | 0 | 360 | 781 | 0 | 343 | 1468 | 657 | 475 | 1457 | 652 |
| Arrive On Green | 0.07 | 0.17 | 0.00 | 0.12 | 0.22 | 0.00 | 0.02 | 0.14 | 0.00 | 0.05 | 0.41 | 0.41 |
| Sat Flow，veh／h | 1774 | 3632 | 0 | 1774 | 3632 | 0 | 1774 | 3539 | 1583 | 1774 | 3539 | 1583 |
| Grp Volume（v），veh／h | 109 | 391 | 0 | 212 | 337 | 0 | 120 | 277 | 0 | 152 | 505 | 223 |
| Grp Sat Flow（s），veh／h／ln | 1774 | 1770 | 0 | 1774 | 1770 | 0 | 1774 | 1770 | 1583 | 1774 | 1770 | 1583 |
| Q Serve（g＿s），s | 4.4 | 9.1 | 0.0 | 8.2 | 7.2 | 0.0 | 3.9 | 6.1 | 0.0 | 0.0 | 8.6 | 8.5 |
| Cycle Q Clear（g＿c），s | 4.4 | 9.1 | 0.0 | 8.2 | 7.2 | 0.0 | 3.9 | 6.1 | 0.0 | 0.0 | 8.6 | 8.5 |
| Prop In Lane | 1.00 |  | 0.00 | 1.00 |  | 0.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 |
| Lane Grp Cap（c），veh／h | 348 | 601 | 0 | 360 | 781 | 0 | 343 | 1468 | 657 | 475 | 1457 | 652 |
| V／C Ratio（X） | 0.31 | 0.65 | 0.00 | 0.59 | 0.43 | 0.00 | 0.35 | 0.19 | 0.00 | 0.32 | 0.35 | 0.34 |
| Avail Cap（c＿a），veh／h | 508 | 1006 | 0 | 531 | 1207 | 0 | 620 | 1468 | 657 | 747 | 1457 | 652 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.33 | 0.33 | 0.33 | 1.00 | 1.00 | 1.00 |
| Upstream Filter（I） | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.92 | 0.92 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay（d），s／veh | 27.2 | 34.1 | 0.0 | 24.5 | 29.5 | 0.0 | 19.4 | 24.8 | 0.0 | 23.2 | 17.8 | 17.7 |
| Incr Delay（d2），s／veh | 0.5 | 1.2 | 0.0 | 1.5 | 0.4 | 0.0 | 0.6 | 0.3 | 0.0 | 0.4 | 0.7 | 1.4 |
| Initial Q Delay（d3），s／veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| \％ile BackOfQ（50\％），veh／ln | 2.2 | 4.6 | 0.0 | 4.1 | 3.6 | 0.0 | 2.0 | 3.0 | 0.0 | 2.9 | 4.3 | 4.0 |
| LnGrp Delay（d），s／veh | 27.7 | 35.3 | 0.0 | 26.1 | 29.9 | 0.0 | 20.0 | 25.1 | 0.0 | 23.6 | 18.4 | 19.2 |
| LnGrp LOS | C | D |  | C | C |  | B | C |  | C | B | B |
| Approach Vol，veh／h |  | 500 |  |  | 549 |  |  | 397 |  |  | 880 |  |
| Approach Delay，s／veh |  | 33.6 |  |  | 28.4 |  |  | 23.6 |  |  | 19.5 |  |
| Approach LOS |  | C |  |  | C |  |  | C |  |  | B |  |


| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Phs Duration（G＋Y＋Rc），s | 42.5 | 42.0 | 14.5 | 20.9 | 10.3 | 74.2 | 10.1 | 25.4 |
| Change Period（Y＋Rc），s | 6.0 | 5.5 | 4.0 | 6.0 | 4.5 | 6.0 | 4.0 | 6.0 |
| Max Green Setting（Gmax），s | 18.0 | 36.5 | 19.0 | 25.0 | 19.5 | 36.0 | 14.0 | 30.0 |
| Max Q Clear Time（g＿c＋11），s | 2.0 | 8.1 | 10.2 | 11.1 | 5.9 | 10.6 | 6.4 | 9.2 |
| Green Ext Time（p＿c），s | 2.6 | 1.6 | 0.4 | 3.9 | 0.2 | 4.1 | 0.1 | 4.6 |
| Intersection Summary |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  |  |  |  |  |  |  |


| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | ${ }^{7}$ | 性 | 「＇ | ${ }^{7}$ | ¢4 | 「＇ | ${ }^{7}$ | 44 | 「＇ | ${ }^{1 / 1}$ | 中4 | 「 |
| Volume（veh／h） | 90 | 265 | 10 | 175 | 260 | 340 | 20 | 420 | 250 | 435 | 370 | 105 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$ ，veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus，Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow，veh／h／ln | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 |
| Adj Flow Rate，veh／h | 98 | 288 | 0 | 158 | 328 | 0 | 22 | 457 | 0 | 473 | 402 | 0 |
| Adj No．of Lanes | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh，\％ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap，veh／h | 203 | 404 | 181 | 526 | 1104 | 469 | 200 | 865 | 387 | 659 | 1212 | 542 |
| Arrive On Green | 0.11 | 0.11 | 0.00 | 0.30 | 0.30 | 0.00 | 0.01 | 0.08 | 0.00 | 0.10 | 0.34 | 0.00 |
| Sat Flow，veh／h | 1774 | 3539 | 1583 | 1774 | 3725 | 1583 | 1774 | 3539 | 1583 | 3442 | 3539 | 1583 |
| Grp Volume（v），veh／h | 98 | 288 | 0 | 158 | 328 | 0 | 22 | 457 | 0 | 473 | 402 | 0 |
| Grp Sat Flow（s），veh／h／ln | 1774 | 1770 | 1583 | 1774 | 1863 | 1583 | 1774 | 1770 | 1583 | 1721 | 1770 | 1583 |
| Q Serve（g＿s），s | 5.0 | 7.5 | 0.0 | 6.6 | 6.5 | 0.0 | 0.9 | 11.9 | 0.0 | 3.2 | 8.1 | 0.0 |
| Cycle Q Clear（g＿c），s | 5.0 | 7.5 | 0.0 | 6.6 | 6.5 | 0.0 | 0.9 | 11.9 | 0.0 | 3.2 | 8.1 | 0.0 |
| Prop In Lane | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 |
| Lane Grp Cap（c），veh／h | 203 | 404 | 181 | 526 | 1104 | 469 | 200 | 865 | 387 | 659 | 1212 | 542 |
| V／C Ratio（X） | 0.48 | 0.71 | 0.00 | 0.30 | 0.30 | 0.00 | 0.11 | 0.53 | 0.00 | 0.72 | 0.33 | 0.00 |
| Avail Cap（c＿a），veh／h | 341 | 681 | 304 | 526 | 1104 | 469 | 324 | 865 | 387 | 1242 | 1563 | 699 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.33 | 0.33 | 0.33 | 1.00 | 1.00 | 1.00 |
| Upstream Filter（I） | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.99 | 0.99 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay（d），s／veh | 39.9 | 41.1 | 0.0 | 26.2 | 26.1 | 0.0 | 30.7 | 38.9 | 0.0 | 37.8 | 23.5 | 0.0 |
| Incr Delay（d2），s／veh | 1.8 | 2.3 | 0.0 | 1.5 | 0.7 | 0.0 | 0.2 | 2.3 | 0.0 | 1.5 | 0.2 | 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 | 0.0 | 0.0 | 0.0 |
| \％ile BackOfQ（50\％），veh／ln | 2.6 | 3.8 | 0.0 | 3.5 | 3.5 | 0.0 | 0.5 | 6.1 | 0.0 | 6.0 | 4.0 | 0.0 |
| LnGrp Delay（d），s／veh | 41.7 | 43.4 | 0.0 | 27.6 | 26.8 | 0.0 | 30.9 | 41.2 | 0.0 | 39.3 | 23.6 | 0.0 |
| LnGrp LOS | D | D |  | C | C |  | C | D |  | D | C |  |
| Approach Vol，veh／h |  | 386 |  |  | 486 |  |  | 479 |  |  | 875 |  |
| Approach Delay，s／veh |  | 43.0 |  |  | 27.1 |  |  | 40.7 |  |  | 32.1 |  |
| Approach LOS |  | D |  |  | C |  |  | D |  |  | C |  |


| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Assigned Phs | 1 | 2 | 4 | 5 | 6 | 8 |  |
| Phs Duration（G＋Y＋Rc），s | 39.5 | 30.0 | 16.5 | 6.3 | 63.2 | 34.0 |  |
| Change Period（Y＋Rc），s | 6.5 | 6.5 | 5.5 | 4.5 | 6.5 | 5.5 |  |
| Max Green Setting（Gmax），s | 25.5 | 23.5 | 18.5 | 8.5 | 42.5 | 28.5 |  |
| Max Q Clear Time（g＿c＋11），s | 5.2 | 13.9 | 9.5 | 2.9 | 10.1 | 8.6 |  |
| Green Ext Time（p＿c），s | 4.0 | 1.9 | 1.4 | 0.0 | 4.4 | 2.4 |  |

Intersection Summary
HCM 2010 Ctrl Delay
34.8

HCM 2010 LOS
C

## Notes

User approved volume balancing among the lanes for turning movement．

|  | $\rangle$ | $\rightarrow$ |  | $\dagger$ |  | 4 | 4 | $\dagger$ | \% |  | $\dagger$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ${ }_{7}$ | $\uparrow$ |  | ${ }_{7}$ | $\uparrow$ | F' | ${ }^{4}$ | $\uparrow$ |  | ${ }_{7}$ | $\uparrow$ |  |
| Volume (veh/h) | 120 | 360 | 155 | 45 | 240 | 5 | 90 | 15 | 50 | 5 | 20 | 80 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$, veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 |
| Adj Flow Rate, veh/h | 130 | 391 | 168 | 49 | 261 | 5 | 98 | 16 | 54 | 5 | 22 | 87 |
| Adj No. of Lanes | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 541 | 557 | 239 | 307 | 838 | 712 | 588 | 147 | 497 | 626 | 129 | 512 |
| Arrive On Green | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 |
| Sat Flow, veh/h | 1109 | 1237 | 532 | 847 | 1863 | 1583 | 1279 | 375 | 1265 | 1325 | 330 | 1303 |
| Grp Volume(v), veh/h | 130 | 0 | 559 | 49 | 261 | 5 | 98 | 0 | 70 | 5 | 0 | 109 |
| Grp Sat Flow(s),veh/h/n | 1109 | 0 | 1769 | 847 | 1863 | 1583 | 1279 | 0 | 1640 | 1325 | 0 | 1633 |
| Q Serve(g_s), s | 4.3 | 0.0 | 12.9 | 2.5 | 4.6 | 0.1 | 2.7 | 0.0 | 1.4 | 0.1 | 0.0 | 2.2 |
| Cycle Q Clear(g_c), s | 8.9 | 0.0 | 12.9 | 15.5 | 4.6 | 0.1 | 5.0 | 0.0 | 1.4 | 1.5 | 0.0 | 2.2 |
| Prop In Lane | 1.00 |  | 0.30 | 1.00 |  | 1.00 | 1.00 |  | 0.77 | 1.00 |  | 0.80 |
| Lane Grp Cap (c), veh/h | 541 | 0 | 796 | 307 | 838 | 712 | 588 | 0 | 644 | 626 | 0 | 641 |
| V/C Ratio(X) | 0.24 | 0.00 | 0.70 | 0.16 | 0.31 | 0.01 | 0.17 | 0.00 | 0.11 | 0.01 | 0.00 | 0.17 |
| Avail Cap(c_a), veh/h | 739 | 0 | 1112 | 459 | 1171 | 995 | 588 | 0 | 644 | 626 | 0 | 641 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(1) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 11.8 | 0.0 | 11.3 | 17.5 | 9.0 | 7.7 | 11.7 | 0.0 | 9.8 | 10.3 | 0.0 | 10.1 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 1.2 | 0.2 | 0.2 | 0.0 | 0.6 | 0.0 | 0.3 | 0.0 | 0.0 | 0.6 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| \%ile BackOfQ(50\%),veh/ln | 1.3 | 0.0 | 6.5 | 0.6 | 2.4 | 0.0 | 1.1 | 0.0 | 0.7 | 0.0 | 0.0 | 1.1 |
| LnGrp Delay(d),s/veh | 12.0 | 0.0 | 12.4 | 17.7 | 9.2 | 7.7 | 12.3 | 0.0 | 10.1 | 10.3 | 0.0 | 10.6 |
| LnGrp LOS | B |  | B | B | A | A | B |  | B | B |  | B |
| Approach Vol, veh/h |  | 689 |  |  | 315 |  |  | 168 |  |  | 114 |  |
| Approach Delay, s/veh |  | 12.3 |  |  | 10.5 |  |  | 11.4 |  |  | 10.6 |  |
| Approach LOS |  | B |  |  | B |  |  | B |  |  | B |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs |  | 2 |  | 4 |  | 6 |  | 8 |  |  |  |  |
| Phs Duration ( $G+Y+R \mathrm{c}$ ), $s$ |  | 24.0 |  | 26.9 |  | 24.0 |  | 26.9 |  |  |  |  |
| Change Period ( $Y+R \mathrm{R}$ ), s |  | 4.0 |  | 4.0 |  | 4.0 |  | 4.0 |  |  |  |  |
| Max Green Setting (Gmax), s |  | 20.0 |  | 32.0 |  | 20.0 |  | 32.0 |  |  |  |  |
| Max Q Clear Time (g_c+1), s |  | 7.0 |  | 14.9 |  | 4.2 |  | 17.5 |  |  |  |  |
| Green Ext Time (p_c), s |  | 1.1 |  | 5.9 |  | 1.2 |  | 5.5 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 11.6 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | B |  |  |  |  |  |  |  |  |  |


|  | $\rangle$ | $\rightarrow$ |  | $\dagger$ |  | 4 | 4 | $\dagger$ | $p$ |  | $\downarrow$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ${ }^{4}$ | $\uparrow$ | 7 | ${ }_{1}$ | $\uparrow$ |  | ${ }_{7}$ | $\hat{\square}$ |  | ${ }_{1}$ | $\uparrow$ |  |
| Volume (veh/h) | 30 | 660 | 110 | 110 | 455 | 10 | 70 | 10 | 165 | 10 | 5 | 35 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$, veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 |
| Adj Flow Rate, veh/h | 33 | 717 | 0 | 120 | 495 | 11 | 76 | 11 | 0 | 11 | 5 | 0 |
| Adj No. of Lanes | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 332 | 669 | 568 | 247 | 721 | 16 | 581 | 602 | 0 | 575 | 602 | 0 |
| Arrive On Green | 0.03 | 0.36 | 0.00 | 0.07 | 0.40 | 0.40 | 0.32 | 0.32 | 0.00 | 0.32 | 0.32 | 0.00 |
| Sat Flow, veh/h | 1774 | 1863 | 1583 | 1774 | 1815 | 40 | 1405 | 1863 | 0 | 1398 | 1863 | 0 |
| Grp Volume(v), veh/h | 33 | 717 | 0 | 120 | 0 | 506 | 76 | 11 | 0 | 11 | 5 | 0 |
| Grp Sat Flow(s),veh/h/n | 1774 | 1863 | 1583 | 1774 | 0 | 1856 | 1405 | 1863 | 0 | 1398 | 1863 | 0 |
| Q Serve(g_s), s | 0.6 | 20.0 | 0.0 | 2.3 | 0.0 | 12.6 | 2.2 | 0.2 | 0.0 | 0.3 | 0.1 | 0.0 |
| Cycle Q Clear(g_c), s | 0.6 | 20.0 | 0.0 | 2.3 | 0.0 | 12.6 | 2.3 | 0.2 | 0.0 | 0.5 | 0.1 | 0.0 |
| Prop In Lane | 1.00 |  | 1.00 | 1.00 |  | 0.02 | 1.00 |  | 0.00 | 1.00 |  | 0.00 |
| Lane Grp Cap (c), veh/h | 332 | 669 | 568 | 247 | 0 | 737 | 581 | 602 | 0 | 575 | 602 | 0 |
| V/C Ratio(X) | 0.10 | 1.07 | 0.00 | 0.48 | 0.00 | 0.69 | 0.13 | 0.02 | 0.00 | 0.02 | 0.01 | 0.00 |
| Avail Cap(c_a), veh/h | 536 | 669 | 568 | 384 | 0 | 737 | 581 | 602 | 0 | 575 | 602 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(1) | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 11.7 | 17.9 | 0.0 | 13.4 | 0.0 | 13.9 | 13.6 | 12.8 | 0.0 | 13.0 | 12.8 | 0.0 |
| Incr Delay (d2), s/veh | 0.1 | 55.8 | 0.0 | 1.5 | 0.0 | 2.7 | 0.5 | 0.1 | 0.0 | 0.1 | 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 | 0.0 | 0.0 | 0.0 |
| \%ile BackOfQ(50\%),veh/ln | 0.3 | 20.4 | 0.0 | 1.2 | 0.0 | 6.9 | 0.9 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 |
| LnGrp Delay(d),s/veh | 11.8 | 73.6 | 0.0 | 14.9 | 0.0 | 16.6 | 14.0 | 12.9 | 0.0 | 13.1 | 12.8 | 0.0 |
| LnGrp LOS | B | F |  | B |  | B | B | B |  | B | B |  |
| Approach Vol, veh/h |  | 750 |  |  | 626 |  |  | 87 |  |  | 16 |  |
| Approach Delay, s/veh |  | 70.9 |  |  | 16.3 |  |  | 13.9 |  |  | 13.0 |  |
| Approach LOS |  | E |  |  | B |  |  | B |  |  | B |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs |  | 2 | 3 | 4 |  | 6 | 7 | 8 |  |  |  |  |
| Phs Duration ( $G+Y+R \mathrm{c}$ ), $s$ |  | 27.3 | 7.7 | 25.0 |  | 27.3 | 5.6 | 27.1 |  |  |  |  |
| Change Period ( $Y+R \mathrm{c}$ ), s |  | 5.0 | 4.0 | 5.0 |  | 5.0 | 4.0 | 5.0 |  |  |  |  |
| Max Green Setting (Gmax), s |  | 18.0 | 8.0 | 20.0 |  | 18.0 | 8.0 | 20.0 |  |  |  |  |
| Max Q Clear Time (g_c+1), s |  | 4.3 | 4.3 | 22.0 |  | 2.5 | 2.6 | 14.6 |  |  |  |  |
| Green Ext Time (p_c), s |  | 0.2 | 0.1 | 0.0 |  | 0.2 | 0.0 | 3.5 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 43.8 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | D |  |  |  |  |  |  |  |  |  |


| Intersection |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh 0.6 |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR |
| Vol, veh/h | 0 | 0 | 10 | 15 | 0 | 10 | 0 | 415 | 5 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 65 | - | - | - | 170 | - | 170 |
| Veh in Median Storage, \# | - | 0 | - | - | 0 | - | - | 0 |  |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 |  |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 11 | 16 | 0 | 11 | 0 | 451 | 5 |


| Major/Minor | Minor2 |  |  | Minor1 |  |  | Major1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 1106 | 1331 | 424 | 908 | 1331 | 226 | 848 | 0 | 0 |
| Stage 1 | 880 | 880 | - | 451 | 451 | - | - | - |  |
| Stage 2 | 226 | 451 | - | 457 | 880 | - | - | - |  |
| Critical Hdwy | 7.54 | 6.54 | 6.94 | 7.54 | 6.54 | 6.94 | 4.14 | - |  |
| Critical Hdwy Stg 1 | 6.54 | 5.54 | - | 6.54 | 5.54 |  | - | - |  |
| Critical Hdwy Stg 2 | 6.54 | 5.54 | - | 6.54 | 5.54 | - | - | - |  |
| Follow-up Hdwy | 3.52 | 4.02 | 3.32 | 3.52 | 4.02 | 3.32 | 2.22 | - |  |
| Pot Cap-1 Maneuver | 165 | 153 | 579 | 230 | 153 | 777 | 785 | - |  |
| Stage 1 | 308 | 363 | - | 557 | 569 | - | - | - |  |
| Stage 2 | 756 | 569 | - | 553 | 363 | - | - | - |  |
| Platoon blocked, \% |  |  |  |  |  |  |  | - |  |
| Mov Cap-1 Maneuver | 159 | 149 | 579 | 221 | 149 | 777 | 785 | - |  |
| Mov Cap-2 Maneuver | 159 | 149 | - | 221 | 149 | - | - | - |  |
| Stage 1 | 308 | 353 | - | 557 | 569 | - | - | - |  |
| Stage 2 | 745 | 569 | - | 527 | 353 | - | - | - |  |


| Approach | EB | WB | NB |
| :--- | ---: | :---: | :---: |
| HCM Control Delay, s | 11.3 | 17.7 | 0 |
| HCM LOS | B | C |  |


| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | SBL | SBT | SBR |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 785 | - | - | - | 579 | 310 | 1106 | - | - |
| HCM Lane V/C Ratio | - | - | - | - | 0.019 | 0.088 | 0.015 | - | - |
| HCM Control Delay (s) | 0 | - | - | 0 | 11.3 | 17.7 | 8.3 | 0.1 | - |
| HCM Lane LOS | A | - | - | A | B | C | A | A | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - | 0.1 | 0.3 | 0 | - | - |


| Intersection |  |  |  |
| :--- | ---: | ---: | ---: |
| Int Delay, s/veh |  |  |  |
|  | SBL | SBT | SBR |
| Movement | 15 | 780 | 5 |
| Vol, veh/h | 0 | 0 | 0 |
| Conflicting Peds, \#/hr | Free | Free | Free |
| Sign Control | - | - | None |
| RT Channelized | - | - | 160 |
| Storage Length | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | - |
| Grade, \% | 92 | 92 | 92 |
| Peak Hour Factor | 2 | 2 | 2 |
| Heavy Vehicles, \% | 16 | 848 | 5 |
| Mvmt Flow |  |  |  |
|  |  |  |  |


|  | Major2 |  |  |
| :--- | ---: | :--- | :--- |
| Major/Minor | 451 | 0 | 0 |
| Conflicting Flow All | - | - | - |
| $\quad$ Stage 1 | - | - | - |
| Stage 2 | 4.14 | - | - |
| Critical Hdwy | - | - | - |
| Critical Hdwy Stg 1 | - | - | - |
| Critical Hdwy Stg 2 | 2.22 | - | - |
| Follow-up Hdwy | 1106 | - | - |
| Pot Cap-1 Maneuver | - | - | - |
| Stage 1 | - | - | - |
| Stage 2 | 1106 | - | - |
| Platoon blocked, \% | - | - | - |
| Mov Cap-1 Maneuver | - | - | - |
| Mov Cap-2 Maneuver | - | - | - |
| Stage 1 |  |  |  |

Approach SB

HCM Control Delay, s 0.3
HCMLOS

## Minor Lane/Major Mvmt

|  | － | $\rightarrow$ | \％ | $\cdots$ | $\checkmark$ | $\pm$ | b | 7 | $\stackrel{ }{ }$ | 4 | $\cdots$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ${ }^{7}$ | 中 ${ }^{\text {P }}$ |  | ${ }^{1}$ | 中 ${ }^{\text {a }}$ |  | ${ }^{7}$ | 44 | 「゙ | ${ }^{7}$ | 中4 | 「 |
| Volume（veh／h） | 300 | 280 | 105 | 415 | 405 | 200 | 105 | 990 | 245 | 110 | 680 | 140 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q $(Q b)$ ，veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus，Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow，veh／h／ln | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 |
| Adj Flow Rate，veh／h | 326 | 304 | 0 | 451 | 440 | 0 | 114 | 1076 | 0 | 120 | 739 | 152 |
| Adj No．of Lanes | 1 | 2 | 0 | 1 | 2 | 0 | 1 | 2 | 1 | 1 | 2 | 1 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh，\％ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap，veh／h | 445 | 529 | 0 | 529 | 717 | 0 | 238 | 1263 | 565 | 228 | 1251 | 560 |
| Arrive On Green | 0.16 | 0.15 | 0.00 | 0.21 | 0.20 | 0.00 | 0.13 | 0.71 | 0.00 | 0.05 | 0.35 | 0.35 |
| Sat Flow，veh／h | 1774 | 3632 | 0 | 1774 | 3632 | 0 | 1774 | 3539 | 1583 | 1774 | 3539 | 1583 |
| Grp Volume（v），veh／h | 326 | 304 | 0 | 451 | 440 | 0 | 114 | 1076 | 0 | 120 | 739 | 152 |
| Grp Sat Flow（s），veh／h／ln | 1774 | 1770 | 0 | 1774 | 1770 | 0 | 1774 | 1770 | 1583 | 1774 | 1770 | 1583 |
| Q Serve（g＿s），s | 14.6 | 7.5 | 0.0 | 19.7 | 10.6 | 0.0 | 4.3 | 20.8 | 0.0 | 0.0 | 16.0 | 6.4 |
| Cycle Q Clear（g＿c），s | 14.6 | 7.5 | 0.0 | 19.7 | 10.6 | 0.0 | 4.3 | 20.8 | 0.0 | 0.0 | 16.0 | 6.4 |
| Prop In Lane | 1.00 |  | 0.00 | 1.00 |  | 0.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 |
| Lane Grp Cap（c），veh／h | 445 | 529 | 0 | 529 | 717 | 0 | 238 | 1263 | 565 | 228 | 1251 | 560 |
| V／C Ratio（X） | 0.73 | 0.58 | 0.00 | 0.85 | 0.61 | 0.00 | 0.48 | 0.85 | 0.00 | 0.53 | 0.59 | 0.27 |
| Avail Cap（c＿a），veh／h | 445 | 1056 | 0 | 529 | 1244 | 0 | 471 | 1263 | 565 | 457 | 1251 | 560 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter（l） | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.58 | 0.58 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay（d），s／veh | 27.7 | 37.2 | 0.0 | 24.7 | 34.1 | 0.0 | 22.9 | 11.6 | 0.0 | 39.6 | 24.8 | 21.7 |
| Incr Delay（d2），s／veh | 6.2 | 1.0 | 0.0 | 12.7 | 0.9 | 0.0 | 0.9 | 4.5 | 0.0 | 1.9 | 2.1 | 1.2 |
| Initial Q Delay（d3），s／veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| \％ile BackOfQ（50\％），veh／In | 7.7 | 3.7 | 0.0 | 11.3 | 5.3 | 0.0 | 2.1 | 10.4 | 0.0 | 3.1 | 8.2 | 3.0 |
| LnGrp Delay（d），s／veh | 33.9 | 38.1 | 0.0 | 37.4 | 34.9 | 0.0 | 23.7 | 16.1 | 0.0 | 41.5 | 26.8 | 22.9 |
| LnGrp LOS | C | D |  | D | C |  | C | B |  | D | C | C |
| Approach Vol，veh／h |  | 630 |  |  | 891 |  |  | 1190 |  |  | 1011 |  |
| Approach Delay，s／veh |  | 35.9 |  |  | 36.2 |  |  | 16.8 |  |  | 28.0 |  |
| Approach LOS |  | D |  |  | D |  |  | B |  |  | C |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Phs Duration（ $G+Y+R \mathrm{c}$ ），$s$ | 37.0 | 39.0 | 24.0 | 20.0 | 10.7 | 65.3 | 19.0 | 25.0 |  |  |  |  |
| Change Period（ $\mathrm{Y}+\mathrm{Rc}$ ），s | 6.0 | 5.5 | 4.0 | 6.0 | 4.5 | 6.0 | 4.0 | 6.0 |  |  |  |  |
| Max Green Setting（Gmax），s | 17.0 | 33.5 | 20.0 | 28.0 | 18.5 | 33.0 | 15.0 | 33.0 |  |  |  |  |
| Max Q Clear Time（g＿c＋11），s | 2.0 | 22.8 | 21.7 | 9.5 | 6.3 | 18.0 | 16.6 | 12.6 |  |  |  |  |
| Green Ext Time（p＿c），s | 3.1 | 5.0 | 0.0 | 4.5 | 0.2 | 4.6 | 0.0 | 4.7 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 27.7 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | C |  |  |  |  |  |  |  |  |  |


| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \％ | 个4 | 「 | \％ | $\uparrow \uparrow$ | 「 | \％ | 个4 | 「 | \％${ }^{*}$ | 个4 | F |
| Volume（veh／h） | 45 | 150 | 10 | 380 | 255 | 540 | 10 | 355 | 135 | 265 | 480 | 70 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$ ，veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus，Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow，veh／h／ln | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 |
| Adj Flow Rate，veh／h | 49 | 163 | 0 | 413 | 277 | 0 | 11 | 386 | 0 | 288 | 522 | 0 |
| Adj No．of Lanes | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 |  |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh，\％ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap，veh／h | 138 | 276 | 123 | 1105 | 580 | 493 | 202 | 1025 | 458 | 679 | 1273 | 569 |
| Arrive On Green | 0.08 | 0.08 | 0.00 | 0.31 | 0.31 | 0.00 | 0.00 | 0.10 | 0.00 | 0.06 | 0.36 | 0.00 |
| Sat Flow，veh／h | 1774 | 3539 | 1583 | 3548 | 1863 | 1583 | 1774 | 3539 | 1583 | 3442 | 3539 | 1583 |
| Grp Volume（v），veh／h | 49 | 163 | 0 | 413 | 277 | 0 | 11 | 386 | 0 | 288 | 522 | 0 |
| Grp Sat Flow（s），veh／h／n | 1774 | 1770 | 1583 | 1774 | 1863 | 1583 | 1774 | 1770 | 1583 | 1721 | 1770 | 1583 |
| Q Serve（g＿s），s | 2.4 | 4.1 | 0.0 | 8.3 | 11.0 | 0.0 | 0.4 | 9.4 | 0.0 | 0.0 | 10.1 | 0.0 |
| Cycle Q Clear（g＿c），s | 2.4 | 4.1 | 0.0 | 8.3 | 11.0 | 0.0 | 0.4 | 9.4 | 0.0 | 0.0 | 10.1 | 0.0 |
| Prop In Lane | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 |
| Lane Grp Cap（c），veh／h | 138 | 276 | 123 | 1105 | 580 | 493 | 202 | 1025 | 458 | 679 | 1273 | 569 |
| V／C Ratio（X） | 0.35 | 0.59 | 0.00 | 0.37 | 0.48 | 0.00 | 0.05 | 0.38 | 0.00 | 0.42 | 0.41 | 0.00 |
| Avail Cap（c＿a），veh／h | 514 | 1025 | 458 | 1105 | 580 | 493 | 348 | 1025 | 458 | 1021 | 1334 | 597 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.33 | 0.33 | 0.33 | 1.00 | 1.00 | 1.00 |
| Upstream Filter（l） | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.99 | 0.99 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay（d），s／veh | 40.0 | 40.8 | 0.0 | 24.6 | 25.5 | 0.0 | 26.1 | 33.6 | 0.0 | 32.4 | 22.0 | 0.0 |
| Incr Delay（d2），s／veh | 1.5 | 2.0 | 0.0 | 1.0 | 2.8 | 0.0 | 0.1 | 1.0 | 0.0 | 0.4 | 0.2 | 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 | 0.0 | 0.0 | 0.0 |
| \％ile BackOfQ（50\％），veh／ln | 1.2 | 2.1 | 0.0 | 4.2 | 6.1 | 0.0 | 0.2 | 4.7 | 0.0 | 3.4 | 5.0 | 0.0 |
| LnGrp Delay（d），s／veh | 41.6 | 42.8 | 0.0 | 25.5 | 28.3 | 0.0 | 26.2 | 34.7 | 0.0 | 32.8 | 22.2 | 0.0 |
| LnGrp LOS | D | D |  | C | C |  | C | C |  | C | C |  |
| Approach Vol，veh／h |  | 212 |  |  | 690 |  |  | 397 |  |  | 810 |  |
| Approach Delay，s／veh |  | 42.5 |  |  | 26.6 |  |  | 34.5 |  |  | 26.0 |  |
| Approach LOS |  | D |  |  | C |  |  | C |  |  | C |  |


| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Assigned Phs | 1 | 2 | 4 | 5 | 6 | 8 |  |
| Phs Duration（G＋Y＋Rc），s | 40.4 | 33.0 | 12.6 | 5.5 | 67.9 | 34.0 |  |
| Change Period（Y＋Rc），s | 6.5 | 6.5 | 5.5 | 4.5 | 6.5 | 5.5 |  |
| Max Green Setting（Gmax），s | 14.5 | 26.5 | 26.5 | 8.5 | 34.5 | 28.5 |  |
| Max Q Clear Time（g＿c＋11），s | 2.0 | 11.4 | 6.1 | 2.4 | 12.1 | 13.0 |  |
| Green Ext Time（p＿c），s | 3.4 | 1.9 | 1.1 | 0.0 | 4.2 | 2.8 |  |

Intersection Summary
HCM 2010 Ctrl Delay 29.5
HCM 2010 LOS
C

## Notes

User approved volume balancing among the lanes for turning movement．

|  | 4 | $\rightarrow$ |  | 7 |  |  | 4 | $\dagger$ | $p$ |  | $\dagger$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | \% |  |  | \% | $\uparrow$ | F | \% | ¢ |  | \% | $\uparrow$ |  |
| Volume (veh/h) | 40 | 190 | 60 | 95 | 340 | 10 | 210 | 30 | 90 | 20 | 55 | 155 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$, veh | 0 | , | 0 | 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 |  | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 |
| Adj Flow Rate, veh/h | 43 | 207 | 65 | 103 | 370 | 11 | 228 | 33 | 98 | 22 | 60 | 168 |
| Adj No. of Lanes | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 326 | 459 | 144 | 394 | 628 | 534 | 625 | 204 | 605 | 716 | 213 | 597 |
| Arrive On Green | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 |
| Sat Flow, veh/h | 998 | 1360 | 427 | 1103 | 1863 | 1583 | 1148 | 415 | 1231 | 1254 | 434 | 1215 |
| Grp Volume(v), veh/h | 43 | 0 | 272 | 103 | 370 | 11 | 228 | 0 | 131 | 22 | 0 | 228 |
| Grp Sat Flow(s),veh/h/n | 998 | 0 | 1787 | 1103 | 1863 | 1583 | 1148 | 0 | 1646 | 1254 | 0 | 1648 |
| Q Serve(g_s), s | 1.7 | 0.0 | 5.6 | 3.8 | 7.7 | 0.2 | 6.8 | 0.0 | 2.1 | 0.5 | 0.0 | 3.8 |
| Cycle Q Clear(g_c), s | 9.4 | 0.0 | 5.6 | 9.3 | 7.7 | 0.2 | 10.6 | 0.0 | 2.1 | 2.5 | 0.0 | 3.8 |
| Prop In Lane | 1.00 |  | 0.24 | 1.00 |  | 1.00 | 1.00 |  | 0.75 | 1.00 |  | 0.74 |
| Lane Grp Cap (c), veh/h | 326 | 0 | 603 | 394 | 628 | 534 | 625 | 0 | 809 | 716 | 0 | 811 |
| V/C Ratio(X) | 0.13 | 0.00 | 0.45 | 0.26 | 0.59 | 0.02 | 0.36 | 0.00 | 0.16 | 0.03 | 0.00 | 0.28 |
| Avail Cap(c_a), veh/h | 609 | 0 | 1108 | 707 | 1155 | 982 | 625 | 0 | 809 | 716 | 0 | 811 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 16.7 | 0.0 | 12.1 | 15.8 | 12.8 | 10.3 | 10.1 | 0.0 | 6.6 | 7.3 | 0.0 | 7.0 |
| Incr Delay (d2), s/veh | 0.2 | 0.0 | 0.5 | 0.3 | 0.9 | 0.0 | 1.6 | 0.0 | 0.4 | 0.1 | 0.0 | 0.9 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| \%ile BackOfQ(50\%),veh/ln | 0.5 | 0.0 | 2.8 | 1.2 | 4.1 | 0.1 | 2.4 | 0.0 | 1.0 | 0.2 | 0.0 | 1.9 |
| LnGrp Delay(d),s/veh | 16.9 | 0.0 | 12.6 | 16.1 | 13.7 | 10.4 | 11.8 | 0.0 | 7.0 | 7.3 | 0.0 | 7.9 |
| LnGrp LOS | B |  | B | B | B | B | B |  | A | A |  | A |
| Approach Vol, veh/h |  | 315 |  |  | 484 |  |  | 359 |  |  | 250 |  |
| Approach Delay, s/veh |  | 13.2 |  |  | 14.1 |  |  | 10.0 |  |  | 7.8 |  |
| Approach LOS |  | B |  |  | B |  |  | B |  |  | A |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs |  | 2 |  | 4 |  | 6 |  | 8 |  |  |  |  |
| Phs Duration ( $G+Y+R \mathrm{c}$ ), $s$ |  | 27.0 |  | 19.8 |  | 27.0 |  | 19.8 |  |  |  |  |
| Change Period ( $Y+R \mathrm{c}$ ), s |  | 4.0 |  | 4.0 |  | 4.0 |  | 4.0 |  |  |  |  |
| Max Green Setting (Gmax), s |  | 23.0 |  | 29.0 |  | 23.0 |  | 29.0 |  |  |  |  |
| Max Q Clear Time (g_c+11), s |  | 12.6 |  | 11.4 |  | 5.8 |  | 11.3 |  |  |  |  |
| Green Ext Time (p_c), s |  | 2.4 |  | 4.3 |  | 3.0 |  | 4.3 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 11.8 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | B |  |  |  |  |  |  |  |  |  |


|  | 4 | $\rightarrow$ | 7 | $\checkmark$ |  |  | 4 | 4 | $p$ |  | $\dagger$ | $\checkmark$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | \% | $\uparrow$ | F | \% | $\uparrow$ |  | \% | $\uparrow$ |  | \% | $\uparrow$ |  |
| Volume (veh/h) | 15 | 515 | 105 | 120 | 900 | 15 | 100 | 30 | 65 | 15 | 10 | 20 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$, veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/ln | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 |
| Adj Flow Rate, veh/h | 16 | 560 | 0 | 130 | 978 | 16 | 109 | 33 | 0 | 16 | 11 | 0 |
| Adj No. of Lanes | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 161 | 625 | 531 | 303 | 716 | 12 | 594 | 621 | 0 | 573 | 621 | 0 |
| Arrive On Green | 0.02 | 0.34 | 0.00 | 0.07 | 0.39 | 0.39 | 0.33 | 0.33 | 0.00 | 0.33 | 0.33 | 0.00 |
| Sat Flow, veh/h | 1774 | 1863 | 1583 | 1774 | 1828 | 30 | 1398 | 1863 | 0 | 1370 | 1863 | 0 |
| Grp Volume(v), veh/h | 16 | 560 | 0 | 130 | 0 | 994 | 109 | 33 | 0 | 16 | 11 | 0 |
| Grp Sat Flow(s),veh/h/n | 1774 | 1863 | 1583 | 1774 | 0 | 1857 | 1398 | 1863 | 0 | 1370 | 1863 | 0 |
| Q Serve(g_s), s | 0.3 | 15.4 | 0.0 | 2.4 | 0.0 | 21.2 | 3.1 | 0.6 | 0.0 | 0.4 | 0.2 | 0.0 |
| Cycle Q Clear(g_c), s | 0.3 | 15.4 | 0.0 | 2.4 | 0.0 | 21.2 | 3.3 | 0.6 | 0.0 | 1.1 | 0.2 | 0.0 |
| Prop In Lane | 1.00 |  | 1.00 | 1.00 |  | 0.02 | 1.00 |  | 0.00 | 1.00 |  | 0.00 |
| Lane Grp Cap (c), veh/h | 161 | 625 | 531 | 303 | 0 | 728 | 594 | 621 | 0 | 573 | 621 | 0 |
| V/C Ratio(X) | 0.10 | 0.90 | 0.00 | 0.43 | 0.00 | 1.37 | 0.18 | 0.05 | 0.00 | 0.03 | 0.02 | 0.00 |
| Avail Cap(c_a), veh/h | 396 | 690 | 586 | 438 | 0 | 728 | 594 | 621 | 0 | 573 | 621 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 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 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 14.5 | 17.1 | 0.0 | 12.5 | 0.0 | 16.4 | 13.2 | 12.2 | 0.0 | 12.6 | 12.1 | 0.0 |
| Incr Delay (d2), s/veh | 0.3 | 13.6 | 0.0 | 1.0 | 0.0 | 173.4 | 0.7 | 0.2 | 0.0 | 0.1 | 0.1 | 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 | 0.0 | 0.0 | 0.0 |
| \%ile BackOfQ(50\%),veh/ln | 0.2 | 10.1 | 0.0 | 1.2 | 0.0 | 45.8 | 1.3 | 0.4 | 0.0 | 0.2 | 0.1 | 0.0 |
| LnGrp Delay(d),s/veh | 14.8 | 30.6 | 0.0 | 13.5 | 0.0 | 189.9 | 13.9 | 12.4 | 0.0 | 12.7 | 12.1 | 0.0 |
| LnGrp LOS | B | C |  | B |  | F | B | B |  | B | B |  |
| Approach Vol, veh/h |  | 576 |  |  | 1124 |  |  | 142 |  |  | 27 |  |
| Approach Delay, s/veh |  | 30.2 |  |  | 169.5 |  |  | 13.5 |  |  | 12.5 |  |
| Approach LOS |  | C |  |  | F |  |  | B |  |  | B |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs |  | 2 | 3 | 4 |  | 6 | 7 | 8 |  |  |  |  |
| Phs Duration ( $G+Y+R \mathrm{c}$ ), $s$ |  | 29.0 | 7.9 | 23.1 |  | 29.0 | 4.9 | 26.2 |  |  |  |  |
| Change Period ( $Y+R \mathrm{c}$ ), s |  | 5.0 | 4.0 | 5.0 |  | 5.0 | 4.0 | 5.0 |  |  |  |  |
| Max Green Setting (Gmax), s |  | 18.0 | 8.0 | 20.0 |  | 18.0 | 8.0 | 20.0 |  |  |  |  |
| Max Q Clear Time (g_c+1), s |  | 5.3 | 4.4 | 17.4 |  | 3.1 | 2.3 | 23.2 |  |  |  |  |
| Green Ext Time (p_c), s |  | 0.4 | 0.1 | 0.7 |  | 0.5 | 0.0 | 0.0 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 112.4 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | F |  |  |  |  |  |  |  |  |  |


|  | 4 |  |  |  |  |  | 4 | $\dagger$ |  | － | $\downarrow$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | $\uparrow$ | 「 |  | $\uparrow$ |  | \％ | 个 $\uparrow$ | 「 |  | ¢ $\uparrow$ | F |
| Volume（veh／h） | 5 | ， | 15 | 30 | － | 40 | 50 | 1500 | 5 | 10 | 855 | 10 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$ ，veh | 0 | 0 | 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 |  | 1.00 |
| Parking Bus，Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow，veh／h／n | 190.0 | 186.3 | 186.3 | 190.0 | 186.3 | 190.0 | 186.3 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 |
| Adj Flow Rate，veh／h | 5 | 0 | 16 | 33 | 0 | 43 | 54 | 1630 | 5 | 11 | 929 | 11 |
| Adj No．of Lanes | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 2 | 1 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh，\％ | 2 |  | 2 |  |  |  |  | 2 | 2 |  | 2 | 2 |
| Cap，veh／h | 263 | 0 | 114 | 154 | 1 | 59 | 549 | 2687 | 1202 | 85 | 2594 | 1202 |
| Arrive On Green | 0.07 | 0.00 | 0.07 | 0.07 | 0.00 | 0.07 | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 |
| Sat Flow，veh／h | 1541 | 0 | 1583 | 623 | 11 | 825 | 594 | 3539 | 1583 | 9 | 3416 | 1583 |
| Grp Volume（v），veh／h | 5 | 0 | 16 | 76 | 0 | 0 | 54 | 1630 | 5 | 498 | 442 | 11 |
| Grp Sat Flow（s），veh／h／ln | 1541 | 0 | 1583 | 1458 | 0 | 0 | 594 | 1770 | 1583 | 1815 | 1610 | 1583 |
| Q Serve（g＿s），s | 0.0 | 0.0 | 0.4 | 2.3 | 0.0 | 0.0 | 1.6 | 9.7 | 0.0 | 0.0 | 4.3 | 0.1 |
| Cycle Q Clear（g＿c），s | 0.1 | 0.0 | 0.4 | 2.4 | 0.0 | 0.0 | 5.9 | 9.7 | 0.0 | 4.2 | 4.3 | 0.1 |
| Prop In Lane | 1.00 |  | 1.00 | 0.43 |  | 0.57 | 1.00 |  | 1.00 | 0.02 |  | 1.00 |
| Lane Grp Cap（c），veh／h | 263 | 0 | 114 | 214 | 0 | 0 | 549 | 2687 | 1202 | 1456 | 1223 | 1202 |
| V／C Ratio（X） | 0.02 | 0.00 | 0.14 | 0.36 | 0.00 | 0.00 | 0.10 | 0.61 | 0.00 | 0.34 | 0.36 | 0.01 |
| Avail Cap（c＿a），veh／h | 623 | 0 | 534 | 611 | 0 | 0 | 549 | 2687 | 1202 | 1456 | 1223 | 1202 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter（l） | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay（d），s／veh | 20.5 | 0.0 | 20.6 | 21.6 | 0.0 | 0.0 | 2.9 | 2.5 | 1.4 | 1.9 | 1.9 | 1.4 |
| Incr Delay（d2），s／veh | 0.0 | 0.0 | 0.6 | 1.0 | 0.0 | 0.0 | 0.4 | 1.0 | 0.0 | 0.6 | 0.8 | 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 | 0.0 | 0.0 | 0.0 |
| \％ile BackOfQ（ $50 \%$ ），veh／ln | 0.1 | 0.0 | 0.2 | 1.0 | 0.0 | 0.0 | 0.3 | 4.9 | 0.0 | 2.3 | 2.1 | 0.0 |
| LnGrp Delay（d），s／veh | 20.5 | 0.0 | 21.2 | 22.6 | 0.0 | 0.0 | 3.2 | 3.6 | 1.4 | 2.5 | 2.7 | 1.4 |
| LnGrp LOS | C |  | C | C |  |  | A | A | A | A | A | A |
| Approach Vol，veh／h |  | 21 |  |  | 76 |  |  | 1689 |  |  | 951 |  |
| Approach Delay，s／veh |  | 21.0 |  |  | 22.6 |  |  | 3.6 |  |  | 2.6 |  |
| Approach LOS |  | C |  |  | C |  |  | A |  |  | A |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs |  | 2 |  | 4 |  | 6 |  | 8 |  |  |  |  |
| Phs Duration（ $\mathrm{G}+\mathrm{Y}+\mathrm{Rc}$ ），s |  | 52.6 |  | 7.4 |  | 52.6 |  | 7.4 |  |  |  |  |
| Change Period（ $Y+R \mathrm{Rc}$ ，，$s$ |  | 4.0 |  | 4.0 |  | 4.0 |  | 4.0 |  |  |  |  |
| Max Green Setting（Gmax），s |  | 36.0 |  | 16.0 |  | 36.0 |  | 16.0 |  |  |  |  |
| Max Q Clear Time（g＿c＋11），s |  | 11.7 |  | 2.4 |  | 6.3 |  | 4.4 |  |  |  |  |
| Green Ext Time（p＿c），s |  | 18.5 |  | 0.3 |  | 21.6 |  | 0.3 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 3.9 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | A |  |  |  |  |  |  |  |  |  |


|  | － | $\rightarrow$ | F | $\cdots$ | 4 | $\Sigma$ | $\cdots$ | 7 | － | 4 | $\lambda$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NEL | NET | NER | SWL | SWT | SWR |
| Lane Configurations | ${ }^{4}$ | 中\％ |  | ${ }^{1}$ | 瑯 |  | ${ }^{7}$ | 44 | 「 | ${ }^{7}$ | 44 | 「 |
| Volume（veh／h） | 210 | 450 | 180 | 305 | 395 | 105 | 215 | 720 | 495 | 245 | 1240 | 420 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q $(Q b)$ ，veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus，Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow，veh／h／ln | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 |
| Adj Flow Rate，veh／h | 228 | 489 | 0 | 332 | 429 | 0 | 234 | 783 | 0 | 266 | 1348 | 457 |
| Adj No．of Lanes | 1 | 2 | 0 | 1 | 2 | 0 | 1 | 2 | 1 | 1 | 2 | 1 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh，\％ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap，veh／h | 398 | 651 | 0 | 408 | 807 | 0 | 288 | 1193 | 534 | 344 | 1190 | 532 |
| Arrive On Green | 0.12 | 0.18 | 0.00 | 0.17 | 0.23 | 0.00 | 0.04 | 0.11 | 0.00 | 0.12 | 0.34 | 0.34 |
| Sat Flow，veh／h | 1774 | 3632 | 0 | 1774 | 3632 | 0 | 1774 | 3539 | 1583 | 1774 | 3539 | 1583 |
| Grp Volume（v），veh／h | 228 | 489 | 0 | 332 | 429 | 0 | 234 | 783 | 0 | 266 | 1348 | 457 |
| Grp Sat Flow（s），veh／h／ln | 1774 | 1770 | 0 | 1774 | 1770 | 0 | 1774 | 1770 | 1583 | 1774 | 1770 | 1583 |
| Q Serve（g＿s），s | 11.1 | 14.2 | 0.0 | 15.8 | 11.5 | 0.0 | 11.2 | 23.0 | 0.0 | 6.9 | 36.4 | 29.2 |
| Cycle Q Clear（g＿c），s | 11.1 | 14.2 | 0.0 | 15.8 | 11.5 | 0.0 | 11.2 | 23.0 | 0.0 | 6.9 | 36.4 | 29.2 |
| Prop In Lane | 1.00 |  | 0.00 | 1.00 |  | 0.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 |
| Lane Grp Cap（c），veh／h | 398 | 651 | 0 | 408 | 807 | 0 | 288 | 1193 | 534 | 344 | 1190 | 532 |
| V／C Ratio（X） | 0.57 | 0.75 | 0.00 | 0.81 | 0.53 | 0.00 | 0.81 | 0.66 | 0.00 | 0.77 | 1.13 | 0.86 |
| Avail Cap（c＿a），veh／h | 412 | 817 | 0 | 426 | 980 | 0 | 386 | 1193 | 534 | 435 | 1190 | 532 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.33 | 0.33 | 0.33 | 1.00 | 1.00 | 1.00 |
| Upstream Filter（I） | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.37 | 0.37 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay（d），s／veh | 30.3 | 41.8 | 0.0 | 28.4 | 36.7 | 0.0 | 34.3 | 42.1 | 0.0 | 42.1 | 35.9 | 33.5 |
| Incr Delay（d2），s／veh | 1.8 | 3.0 | 0.0 | 11.1 | 0.5 | 0.0 | 3.7 | 1.1 | 0.0 | 6.6 | 70.7 | 16.3 |
| Initial Q Delay（d3），s／veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| \％ile BackOfQ（50\％），veh／ln | 5.6 | 7.2 | 0.0 | 8.8 | 5.7 | 0.0 | 5.8 | 11.5 | 0.0 | 8.2 | 29.4 | 15.1 |
| LnGrp Delay（d），s／veh | 32.1 | 44.8 | 0.0 | 39.6 | 37.3 | 0.0 | 38.0 | 43.2 | 0.0 | 48.6 | 106.6 | 49.9 |
| LnGrp LOS | C | D |  | D | D |  | D | D |  | D | F | D |
| Approach Vol，veh／h |  | 717 |  |  | 761 |  |  | 1017 |  |  | 2071 |  |
| Approach Delay，s／veh |  | 40.8 |  |  | 38.3 |  |  | 42.0 |  |  | 86.6 |  |
| Approach LOS |  | D |  |  | D |  |  | D |  |  | F |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Phs Duration（ $G+Y+R \mathrm{c}$ ），s | 30.2 | 42.0 | 21.9 | 25.9 | 18.0 | 54.1 | 17.1 | 30.7 |  |  |  |  |
| Change Period（ $\mathrm{Y}+\mathrm{Rc}$ ），s | 6.0 | 5.5 | 4.0 | 6.0 | 4.5 | 6.0 | 4.0 | 6.0 |  |  |  |  |
| Max Green Setting（Gmax），s | 18.0 | 36.5 | 19.0 | 25.0 | 19.5 | 36.0 | 14.0 | 30.0 |  |  |  |  |
| Max Q Clear Time（g＿c＋11），s | 8.9 | 25.0 | 17.8 | 16.2 | 13.2 | 38.4 | 13.1 | 13.5 |  |  |  |  |
| Green Ext Time（p＿c），s | 3.6 | 3.8 | 0.1 | 3.8 | 0.3 | 0.0 | 0.1 | 5.4 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 61.4 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | E |  |  |  |  |  |  |  |  |  |


| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | \％ | 个4 | 「 | \％ | ＊ 4 | 「 | \％ | 个个 | 「 | \％${ }^{1 / 1}$ | 个4 | F |
| Volume（veh／h） | 100 | 360 | 15 | 300 | 340 | 590 | 25 | 610 | 425 | 790 | 485 | 115 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$ ，veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus，Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow，veh／h／ln | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 |
| Adj Flow Rate，veh／h | 109 | 391 | 0 | 232 | 502 | 0 | 27 | 663 | 0 | 859 | 527 | 0 |
| Adj No．of Lanes | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh，\％ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap，veh／h | 238 | 474 | 212 | 431 | 906 | 385 | 132 | 710 | 318 | 872 | 1470 | 657 |
| Arrive On Green | 0.13 | 0.13 | 0.00 | 0.24 | 0.24 | 0.00 | 0.01 | 0.07 | 0.00 | 0.22 | 0.42 | 0.00 |
| Sat Flow，veh／h | 1774 | 3539 | 1583 | 1774 | 3725 | 1583 | 1774 | 3539 | 1583 | 3442 | 3539 | 1583 |
| Grp Volume（v），veh／h | 109 | 391 | 0 | 232 | 502 | 0 | 27 | 663 | 0 | 859 | 527 | 0 |
| Grp Sat Flow（s），veh／h／n | 1774 | 1770 | 1583 | 1774 | 1863 | 1583 | 1774 | 1770 | 1583 | 1721 | 1770 | 1583 |
| Q Serve（g＿s），s | 6.6 | 12.6 | 0.0 | 13.3 | 13.8 | 0.0 | 1.5 | 21.9 | 0.0 | 24.9 | 12.0 | 0.0 |
| Cycle Q Clear（g＿c），s | 6.6 | 12.6 | 0.0 | 13.3 | 13.8 | 0.0 | 1.5 | 21.9 | 0.0 | 24.9 | 12.0 | 0.0 |
| Prop In Lane | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 | 1.00 |  | 1.00 |
| Lane Grp Cap（c），veh／h | 238 | 474 | 212 | 431 | 906 | 385 | 132 | 710 | 318 | 872 | 1470 | 657 |
| V／C Ratio（X） | 0.46 | 0.83 | 0.00 | 0.54 | 0.55 | 0.00 | 0.21 | 0.93 | 0.00 | 0.99 | 0.36 | 0.00 |
| Avail Cap（c＿a），veh／h | 280 | 559 | 250 | 431 | 906 | 385 | 225 | 710 | 318 | 872 | 1470 | 657 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.33 | 0.33 | 0.33 | 1.00 | 1.00 | 1.00 |
| Upstream Filter（l） | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.99 | 0.99 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay（d），s／veh | 46.8 | 49.4 | 0.0 | 38.6 | 38.8 | 0.0 | 41.5 | 53.9 | 0.0 | 43.8 | 23.5 | 0.0 |
| Incr Delay（d2），s／veh | 1.4 | 8.6 | 0.0 | 4.7 | 2.4 | 0.0 | 0.8 | 20.8 | 0.0 | 26.8 | 0.1 | 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 | 0.0 | 0.0 | 0.0 |
| \％ile BackOfQ（50\％），veh／ln | 3.4 | 6.7 | 0.0 | 7.1 | 7.4 | 0.0 | 0.8 | 12.8 | 0.0 | 17.1 | 5.9 | 0.0 |
| LnGrp Delay $(\mathrm{d})$ ，s／veh | 48.2 | 58.0 | 0.0 | 43.4 | 41.2 | 0.0 | 42.3 | 74.8 | 0.0 | 70.6 | 23.7 | 0.0 |
| LnGrp LOS | D | E |  | D | D |  | D | E |  | E | C |  |
| Approach Vol，veh／h |  | 500 |  |  | 734 |  |  | 690 |  |  | 1386 |  |
| Approach Delay，s／veh |  | 55.8 |  |  | 41.9 |  |  | 73.5 |  |  | 52.8 |  |
| Approach LOS |  | E |  |  | D |  |  | E |  |  | D |  |


| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Assigned Phs | 1 | 2 |  | 4 | 5 | 6 | 8 |
| Phs Duration（G＋Y＋Rc），s | 34.8 | 30.0 |  | 21.2 | 6.8 | 58.0 | 34.0 |
| Change Period（Y＋Rc），s | 6.5 | 6.5 |  | 5.5 | 4.5 | 6.5 | 5.5 |
| Max Green Setting（Gmax），s | 25.5 | 23.5 |  | 18.5 | 8.5 | 42.5 | 28.5 |
| Max Q Clear Time（g＿c＋11），s | 26.9 | 23.9 |  | 14.6 | 3.5 | 14.0 | 15.8 |
| Green Ext Time（p＿c），s | 0.0 | 0.0 |  | 1.1 | 0.0 | 7.4 | 3.2 |
| Intersection Summary |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  |  |  |  |  |  |

## Notes

User approved volume balancing among the lanes for turning movement．

|  | $\rangle$ | $\rightarrow$ |  | $\downarrow$ |  | 4 | 4 | 4 | $p$ |  | $\downarrow$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ${ }^{*}$ | $\uparrow$ |  | ${ }^{*}$ | $\uparrow$ | " | ${ }^{*}$ | ¢ |  | ${ }^{*}$ | $\uparrow$ |  |
| Volume (veh/h) | 180 | 420 | 265 | 130 | 275 | 15 | 145 | 55 | 140 | 10 | 70 | 110 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/n | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 |
| Adj Flow Rate, veh/h | 196 | 457 | 288 | 141 | 299 | 16 | 158 | 60 | 152 | 11 | 76 | 120 |
| Adj No. of Lanes | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 591 | 570 | 360 | 252 | 993 | 844 | 410 | 156 | 395 | 394 | 217 | 343 |
| Arrive On Green | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| Sat Flow, veh/h | 1060 | 1070 | 674 | 713 | 1863 | 1583 | 1182 | 468 | 1186 | 1165 | 652 | 1029 |
| Grp Volume(v), veh/h | 196 | 0 | 745 | 141 | 299 | 16 | 158 | 0 | 212 | 11 | 0 | 196 |
| Grp Sat Flow(s),veh/h/ln | 1060 | 0 | 1744 | 713 | 1863 | 1583 | 1182 | 0 | 1654 | 1165 | 0 | 1681 |
| Q Serve(g_s), s | 7.6 | 0.0 | 20.9 | 11.1 | 5.4 | 0.3 | 7.0 | 0.0 | 5.9 | 0.4 | 0.0 | 5.3 |
| Cycle Q Clear (g_c), s | 12.9 | 0.0 | 20.9 | 32.0 | 5.4 | 0.3 | 12.3 | 0.0 | 5.9 | 6.3 | 0.0 | 5.3 |
| Prop In Lane | 1.00 |  | 0.39 | 1.00 |  | 1.00 | 1.00 |  | 0.72 | 1.00 |  | 0.61 |
| Lane Grp Cap (c), veh/h | 591 | 0 | 930 | 252 | 993 | 844 | 410 | 0 | 551 | 394 | 0 | 560 |
| V/C Ratio(X) | 0.33 | 0.00 | 0.80 | 0.56 | 0.30 | 0.02 | 0.39 | 0.00 | 0.38 | 0.03 | 0.00 | 0.35 |
| Avail Cap(c_a), veh/h | 591 | 0 | 930 | 252 | 993 | 844 | 410 | 0 | 551 | 394 | 0 | 560 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 11.4 | 0.0 | 11.4 | 24.8 | 7.8 | 6.6 | 19.7 | 0.0 | 15.3 | 17.7 | 0.0 | 15.1 |
| Incr Delay (d2), s/veh | 0.3 | 0.0 | 5.1 | 2.8 | 0.2 | 0.0 | 2.7 | 0.0 | 2.0 | 0.1 | 0.0 | 1.7 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| \%ile BackOfQ(50\%),veh/ln | 2.2 | 0.0 | 11.2 | 2.5 | 2.8 | 0.1 | 2.6 | 0.0 | 3.0 | 0.2 | 0.0 | 2.7 |
| LnGrp Delay(d),s/veh | 11.7 | 0.0 | 16.5 | 27.6 | 8.0 | 6.6 | 22.4 | 0.0 | 17.3 | 17.8 | 0.0 | 16.8 |
| LnGrp LOS | B |  | B | C | A | A | C |  | B | B |  | B |
| Approach Vol, veh/h |  | 941 |  |  | 456 |  |  | 370 |  |  | 207 |  |
| Approach Delay, s/veh |  | 15.5 |  |  | 14.0 |  |  | 19.5 |  |  | 16.9 |  |
| Approach LOS |  | B |  |  | B |  |  | B |  |  | B |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs |  | 2 |  | 4 |  | 6 |  | 8 |  |  |  |  |
| Phs Duration ( $\mathrm{G}+\mathrm{Y}+\mathrm{Rc}$ ), s |  | 24.0 |  | 36.0 |  | 24.0 |  | 36.0 |  |  |  |  |
| Change Period ( $\mathrm{Y}+\mathrm{Rc}$ ), s |  | 4.0 |  | 4.0 |  | 4.0 |  | 4.0 |  |  |  |  |
| Max Green Setting (Gmax), s |  | 20.0 |  | 32.0 |  | 20.0 |  | 32.0 |  |  |  |  |
| Max Q Clear Time (g_c+11), s |  | 14.3 |  | 22.9 |  | 8.3 |  | 34.0 |  |  |  |  |
| Green Ext Time (p_c), s |  | 1.6 |  | 5.7 |  | 2.4 |  | 0.0 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 16.0 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | B |  |  |  |  |  |  |  |  |  |


|  | 4 |  |  | 7 |  |  | 4 | 4 | 7 |  | $\downarrow$ | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ${ }^{7}$ | $\uparrow$ | \% | \% | $\uparrow$ |  | \% | $\uparrow$ |  | \% | $\uparrow$ |  |
| Volume (veh/h) | 45 | 985 | 160 | 160 | 650 | 15 | 105 | 15 | 245 | 15 | 5 | 50 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$, veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow, veh/h/n | 186.3 | 186.3 | 186.3 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 | 190.0 |
| Adj Flow Rate, veh/h | 49 | 1071 | 0 | 174 | 707 | 16 | 114 | 16 | 0 | 16 | 5 | 0 |
| Adj No. of Lanes | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 208 | 652 | 554 | 286 | 730 | 17 | 566 | 587 | 0 | 556 | 587 | 0 |
| Arrive On Green | 0.04 | 0.35 | 0.00 | 0.09 | 0.40 | 0.40 | 0.32 | 0.32 | 0.00 | 0.32 | 0.32 | 0.00 |
| Sat Flow, veh/h | 1774 | 1863 | 1583 | 1774 | 1814 | 41 | 1405 | 1863 | 0 | 1392 | 1863 | 0 |
| Grp Volume(v), veh/h | 49 | 1071 | 0 | 174 | 0 | 723 | 114 | 16 | 0 | 16 | 5 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1774 | 1863 | 1583 | 1774 | 0 | 1855 | 1405 | 1863 | 0 | 1392 | 1863 | 0 |
| Q Serve(g_s), s | 1.0 | 20.0 | 0.0 | 3.4 | 0.0 | 21.8 | 3.5 | 0.3 | 0.0 | 0.5 | 0.1 | 0.0 |
| Cycle Q Clear(g_c), s | 1.0 | 20.0 | 0.0 | 3.4 | 0.0 | 21.8 | 3.6 | 0.3 | 0.0 | 0.8 | 0.1 | 0.0 |
| Prop In Lane | 1.00 |  | 1.00 | 1.00 |  | 0.02 | 1.00 |  | 0.00 | 1.00 |  | 0.00 |
| Lane Grp Cap(c), veh/h | 208 | 652 | 554 | 286 | 0 | 746 | 566 | 587 | 0 | 556 | 587 | 0 |
| VIC Ratio(X) | 0.24 | 1.64 | 0.00 | 0.61 | 0.00 | 0.97 | 0.20 | 0.03 | 0.00 | 0.03 | 0.01 | 0.00 |
| Avail Cap(c_a), veh/h | 389 | 652 | 554 | 374 | 0 | 746 | 566 | 587 | 0 | 556 | 587 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 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 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 14.3 | 18.6 | 0.0 | 13.2 | 0.0 | 16.7 | 14.7 | 13.5 | 0.0 | 13.8 | 13.4 | 0.0 |
| Incr Delay (d2), s/veh | 0.6 | 296.1 | 0.0 | 2.1 | 0.0 | 25.4 | 0.8 | 0.1 | 0.0 | 0.1 | 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 | 0.0 | 0.0 | 0.0 |
| \%ile BackOfQ( $50 \%$ ),veh/ln | 0.5 | 63.8 | 0.0 | 1.8 | 0.0 | 16.3 | 1.5 | 0.2 | 0.0 | 0.2 | 0.1 | 0.0 |
| LnGrp Delay(d),s/veh | 14.9 | 314.7 | 0.0 | 15.3 | 0.0 | 42.1 | 15.5 | 13.6 | 0.0 | 13.9 | 13.5 | 0.0 |
| LnGrp LOS | B | F |  | B |  | D | B | B |  | B | B |  |
| Approach Vol, veh/h |  | 1120 |  |  | 897 |  |  | 130 |  |  | 21 |  |
| Approach Delay, s/veh |  | 301.5 |  |  | 36.9 |  |  | 15.2 |  |  | 13.8 |  |
| Approach LOS |  | F |  |  | D |  |  | B |  |  | B |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs |  | 2 | 3 | 4 |  | 6 | 7 | 8 |  |  |  |  |
| Phs Duration ( $\mathrm{G}+\mathrm{Y}+\mathrm{Rc}$ ), $s$ |  | 25.9 | 9.1 | 25.0 |  | 25.9 | 6.2 | 28.0 |  |  |  |  |
| Change Period ( $Y+R \mathrm{Rc}$ ), s |  | 5.0 | 4.0 | 5.0 |  | 5.0 | 4.0 | 5.0 |  |  |  |  |
| Max Green Setting (Gmax), s |  | 18.0 | 8.0 | 20.0 |  | 18.0 | 8.0 | 20.0 |  |  |  |  |
| Max Q Clear Time (g_c+11), s |  | 5.6 | 5.4 | 22.0 |  | 2.8 | 3.0 | 23.8 |  |  |  |  |
| Green Ext Time (p_c), s |  | 0.3 | 0.1 | 0.0 |  | 0.4 | 0.0 | 0.0 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 172.1 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | F |  |  |  |  |  |  |  |  |  |


|  | 4 |  | \％ |  |  | 4 | 4 | $\dagger$ | $p$ | （ | $\dagger$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | $\uparrow$ | 「7 |  | \＆ |  | ${ }^{7}$ | 中4 | F゙ |  | $\uparrow \uparrow$ | 「 |
| Volume（veh／h） | 5 | 0 | 30 | 25 | 0 | 10 | 5 | 1020 | 10 | 20 | 1960 | 5 |
| Number | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | 16 |
| Initial $Q(Q b)$ ，veh | 0 | 0 | 0 | 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 |  | 1.00 |
| Parking Bus，Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Adj Sat Flow，veh／h／ln | 190.0 | 186.3 | 186.3 | 190.0 | 186.3 | 190.0 | 186.3 | 186.3 | 186.3 | 190.0 | 186.3 | 186.3 |
| Adj Flow Rate，veh／h | 5 | 0 | 33 | 27 | 0 | 11 | 5 | 1109 | 11 | 22 | 2130 | 5 |
| Adj No．of Lanes | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 2 | 1 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh，\％ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap，veh／h | 243 | 0 | 85 | 184 | 0 | 21 | 231 | 2740 | 1226 | 88 | 2654 | 1226 |
| Arrive On Green | 0.05 | 0.00 | 0.05 | 0.05 | 0.00 | 0.05 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 |
| Sat Flow，veh／h | 1644 | 0 | 1583 | 965 | 0 | 393 | 188 | 3539 | 1583 | 12 | 3428 | 1583 |
| Grp Volume（v），veh／h | 5 | 0 | 33 | 38 | 0 | 0 | 5 | 1109 | 11 | 1155 | 997 | 5 |
| Grp Sat Flow（s），veh／h／ln | 1644 | 0 | 1583 | 1358 | 0 | 0 | 188 | 1770 | 1583 | 1830 | 1610 | 1583 |
| Q Serve（g＿s），s | 0.0 | 0.0 | 0.9 | 1.2 | 0.0 | 0.0 | 0.8 | 4.8 | 0.1 | 0.0 | 17.1 | 0.0 |
| Cycle Q Clear（g＿c），s | 0.1 | 0.0 | 0.9 | 1.3 | 0.0 | 0.0 | 17.8 | 4.8 | 0.1 | 17.1 | 17.1 | 0.0 |
| Prop In Lane | 1.00 |  | 1.00 | 0.71 |  | 0.29 | 1.00 |  | 1.00 | 0.02 |  | 1.00 |
| Lane Grp Cap（c），veh／h | 243 | 0 | 85 | 205 | 0 | 0 | 231 | 2740 | 1226 | 1496 | 1247 | 1226 |
| V／C Ratio（X） | 0.02 | 0.00 | 0.39 | 0.18 | 0.00 | 0.00 | 0.02 | 0.40 | 0.01 | 0.77 | 0.80 | 0.00 |
| Avail Cap（c＿a），veh／h | 649 | 0 | 545 | 619 | 0 | 0 | 231 | 2740 | 1226 | 1496 | 1247 | 1226 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter（I） | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay（d），s／veh | 20.9 | 0.0 | 21.3 | 21.5 | 0.0 | 0.0 | 8.4 | 1.7 | 1.2 | 3.1 | 3.1 | 1.2 |
| Incr Delay（d2），s／veh | 0.0 | 0.0 | 2.9 | 0.4 | 0.0 | 0.0 | 0.2 | 0.4 | 0.0 | 3.9 | 5.4 | 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 | 0.0 | 0.0 | 0.0 |
| \％ile BackOfQ（50\％），veh／ln | 0.1 | 0.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 10.0 | 9.1 | 0.0 |
| LnGrp Delay（d），s／veh | 20.9 | 0.0 | 24.1 | 21.9 | 0.0 | 0.0 | 8.6 | 2.2 | 1.2 | 7.0 | 8.6 | 1.2 |
| LnGrp LOS | C |  | C | C |  |  | A | A | A | A | A | A |
| Approach Vol，veh／h |  | 38 |  |  | 38 |  |  | 1125 |  |  | 2157 |  |
| Approach Delay，s／veh |  | 23.7 |  |  | 21.9 |  |  | 2.2 |  |  | 7.7 |  |
| Approach LOS |  | C |  |  | C |  |  | A |  |  | A |  |
| Timer | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |  |
| Assigned Phs |  | 2 |  | 4 |  | 6 |  | 8 |  |  |  |  |
| Phs Duration（ $G+Y+R \mathrm{c}$ ），$s$ |  | 53.5 |  | 6.5 |  | 53.5 |  | 6.5 |  |  |  |  |
| Change Period（ $\mathrm{Y}+\mathrm{Rc}$ ），s |  | 4.0 |  | 4.0 |  | 4.0 |  | 4.0 |  |  |  |  |
| Max Green Setting（Gmax），s |  | 36.0 |  | 16.0 |  | 36.0 |  | 16.0 |  |  |  |  |
| Max Q Clear Time（g＿c＋11），s |  | 19.8 |  | 2.9 |  | 19.1 |  | 3.3 |  |  |  |  |
| Green Ext Time（p＿c），s |  | 15.0 |  | 0.2 |  | 15.7 |  | 0.2 |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |  |  |
| HCM 2010 Ctrl Delay |  |  | 6.2 |  |  |  |  |  |  |  |  |  |
| HCM 2010 LOS |  |  | A |  |  |  |  |  |  |  |  |  |

## Arterial Level of Service: EB US 6C

|  | Node | Delay <br> $(\mathrm{s} /$ veh $)$ | Travel <br> time $(\mathrm{s})$ | Dist <br> $(\mathrm{mi})$ | Arterial <br> Speed | Run 1 <br> Speed | Run 1 <br> Delay |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Cross Street | 1 | 40.7 | 64.5 | 0.3 | 18 | 16 | 52.7 |
| l--70B | 38 | 2.8 | 12.4 | 0.1 | 22 | 23 | 2.4 |
|  | 28 | 22.3 | 32.7 | 0.1 | 10 | 9 | 26.8 |
| 1st St | 34 | 2.9 | 7.6 | 0.0 | 20 | 18 | 3.6 |
| 2nd St | 49 | 1.1 | 5.2 | 0.0 | 23 | 21 | 1.6 |
|  | 30 | 0.7 | 12.0 | 0.1 | 28 | 27 | 0.8 |
| Lois St | 25 | 0.4 | 7.3 | 0.1 | 29 | 29 | 0.3 |
| Holland St | 46 | 0.4 | 5.1 | 0.0 | 28 | 29 | 0.3 |
| 5th St | 23 | 11.9 | 37.7 | 0.2 | 22 | 22 | 12.0 |
| 33 Rd |  | 83.0 | 184.5 | 1.0 | 20 | 18 | 100.5 |

Arterial Level of Service: EB US 6C

| Cross Street | Run2 <br> Speed | Run2 <br> Delay | Run 3 <br> Speed | Run 3 <br> Delay | Run 4 <br> Speed | Run 4 <br> Delay | Run 5 <br> Speed |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $1-70 B$ | 15 | 52.9 | 19 | 38.4 | 20 | 35.0 | 21 |
|  | 20 | 3.3 | 21 | 2.7 | 21 | 3.0 | 22 |
| 1st St | 11 | 19.9 | 9 | 25.6 | 11 | 20.1 | 11 |
| 2nd St | 21 | 2.5 | 20 | 2.6 | 19 | 3.0 | 20 |
|  | 24 | 0.8 | 24 | 1.1 | 23 | 1.0 | 24 |
| Lois St | 29 | 0.6 | 30 | 0.6 | 28 | 0.6 | 29 |
| Holland St | 28 | 0.3 | 29 | 0.4 | 29 | 0.3 | 29 |
| 5th St | 28 | 0.4 | 28 | 0.6 | 29 | 0.3 | 28 |
| 33 Rd | 21 | 14.0 | 22 | 12.4 | 24 | 9.7 | 24 |
| Total | 18 | 94.8 | 19 | 84.3 | 21 | 73.1 | 21 |

## Arterial Level of Service: WB US 6C

| Cross Street | Node | Delay <br> $(\mathrm{s} / \mathrm{veh})$ | Travel <br> time $(\mathrm{s})$ | Dist <br> $(\mathrm{mi})$ | Arterial <br> Speed | Run 1 <br> Speed | Run 1 <br> Delay |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 33 Rd | 23 | 12.9 | 29.0 | 0.2 | 20 | 19 | 14.7 |
| Clifton Elementary | 46 | 2.9 | 28.6 | 0.2 | 30 | 30 | 3.1 |
| Holland St | 25 | 0.4 | 5.0 | 0.0 | 29 | 29 | 0.4 |
| Lois St | 30 | 0.7 | 7.7 | 0.1 | 28 | 28 | 0.8 |
| Smallwood Lane | 49 | 1.1 | 12.4 | 0.1 | 28 | 27 | 1.5 |
| 2nd St | 34 | 2.5 | 6.6 | 0.0 | 18 | 15 | 3.8 |
| 32 1/2 Rd | 28 | 13.4 | 18.1 | 0.0 | 8 | 7 | 16.3 |
|  | 38 | 1.9 | 12.9 | 0.1 | 26 | 25 | 2.3 |
| I-70B | 1 | 45.7 | 52.2 | 0.1 | 5 | 6 | 37.5 |
| Total |  | 81.6 | 172.4 | 0.8 | 17 | 18 | 80.3 |

Arterial Level of Service: WB US 6C

|  | Run 2 <br> Speed | Run 2 <br> Delay | Run 3 <br> Speed | Run 3 <br> Delay | Run 4 <br> Speed | Run 4 <br> Delay | Run 5 <br> Speed |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Cross Street | 20 | 13.1 | 21 | 11.9 | 20 | 12.8 | 21 |
| 33 Rd | 31 | 2.7 | 29 | 2.9 | 29 | 3.2 | 30 |
| Clifton Elementary | 29 | 0.4 | 29 | 0.3 | 27 | 0.4 | 28 |
| Holland St | 28 | 0.8 | 29 | 0.4 | 26 | 0.9 | 28 |
| Lois St | 28 | 1.1 | 28 | 1.1 | 28 | 1.0 | 28 |
| Smallwood Lane | 21 | 1.7 | 18 | 2.5 | 18 | 2.4 | 20 |
| 2nd St | 10 | 10.7 | 9 | 12.9 | 9 | 11.9 | 8 |
| 32 1/2 Rd | 27 | 1.7 | 26 | 2.0 | 26 | 1.7 | 25 |
|  | 5 | 48.1 | 5 | 44.9 | 5 | 52.5 | 5 |
| I-70B | 18 | 80.2 | 18 | 78.8 | 17 | 86.8 | 17 |

## Arterial Level of Service: EB US 6C

| Cross Street | Node | Delay <br> $(\mathrm{s} / v e h)$ | Travel <br> time $(\mathrm{s})$ | Dist <br> $(\mathrm{mi})$ | Arterial <br> Speed | Run 1 <br> Speed | Run 1 <br> Delay |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| I-70B | 1 | 44.4 | 69.2 | 0.3 | 17 | 19 | 37.2 |
|  | 38 | 5.1 | 14.9 | 0.1 | 18 | 19 | 4.0 |
| 1st St | 28 | 33.8 | 43.9 | 0.1 | 8 | 7 | 39.9 |
| 2nd St | 34 | 4.0 | 9.0 | 0.0 | 17 | 15 | 4.9 |
|  | 49 | 1.2 | 5.3 | 0.0 | 23 | 22 | 1.4 |
| Lois St | 30 | 0.7 | 12.2 | 0.1 | 28 | 27 | 0.9 |
| Holland St | 25 | 0.5 | 7.5 | 0.1 | 28 | 27 | 0.7 |
| 5th St | 46 | 0.4 | 4.8 | 0.0 | 28 | 27 | 0.7 |
| 33 Rd | 23 | 11.5 | 38.1 | 0.2 | 22 | 23 | 9.1 |
| Total |  | 101.4 | 204.9 | 1.0 | 18 | 18 | 98.8 |

Arterial Level of Service: EB US 6C

| Cross Street | Run 2 <br> Speed | Run 2 <br> Delay | Run 3 <br> Speed | Run 3 <br> Delay | Run 4 <br> Speed | Run 4 <br> Delay | Run 5 <br> Speed |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| l-70B | 18 | 42.5 | 18 | 43.0 | 16 | 48.7 | 16 |
|  | 17 | 5.9 | 19 | 4.2 | 18 | 5.4 | 17 |
| 1st St | 6 | 45.6 | 10 | 23.9 | 12 | 18.0 | 7 |
| 2nd St | 17 | 3.6 | 17 | 3.9 | 18 | 3.5 | 17 |
|  | 24 | 0.9 | 23 | 1.0 | 23 | 1.2 | 22 |
| Lois St | 28 | 0.7 | 28 | 0.5 | 28 | 0.7 | 28 |
| Holland St | 28 | 0.5 | 28 | 0.4 | 29 | 0.4 | 29 |
| 5th St | 28 | 0.4 | 29 | 0.3 | 28 | 0.3 | 29 |
| 33 Rd | 23 | 10.6 | 22 | 11.7 | 20 | 15.3 | 24 |
| Total | 17 | 110.6 | 19 | 88.9 | 18 | 93.5 | 17 |

## Arterial Level of Service: WB US 6C

| Cross Street | Node | Delay <br> $(\mathrm{s} / \mathrm{veh})$ | Travel <br> time $(\mathrm{s})$ | Dist <br> $(\mathrm{mi})$ | Arterial <br> Speed | Run 1 <br> Speed | Run 1 <br> Delay |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 33 Rd | 23 | 9.3 | 24.1 | 0.2 | 24 | 23 | 9.9 |
| Clifton Elementary | 46 | 2.5 | 27.3 | 0.2 | 31 | 29 | 2.5 |
| Holland St | 25 | 0.4 | 4.6 | 0.0 | 30 | 30 | 0.3 |
| Lois St | 30 | 0.6 | 7.5 | 0.1 | 28 | 30 | 0.4 |
| Smallwood Lane | 49 | 0.9 | 12.2 | 0.1 | 28 | 29 | 0.7 |
| 2nd St | 34 | 1.5 | 5.7 | 0.0 | 21 | 22 | 1.2 |
| 32 1/2 Rd | 28 | 12.6 | 17.0 | 0.0 | 9 | 9 | 11.9 |
|  | 38 | 1.7 | 12.5 | 0.1 | 27 | 27 | 1.7 |
| I-70B | 1 | 38.3 | 44.7 | 0.1 | 6 | 7 | 34.0 |
| Total |  | 67.8 | 155.5 | 0.8 | 19 | 20 | 62.5 |

Arterial Level of Service: WB US 6C

|  | Run 2 <br> Speed | Run 2 <br> Delay | Run 3 <br> Speed | Run 3 <br> Delay | Run 4 <br> Speed | Run 4 <br> Delay | Run 5 <br> Speed |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Cross Street | 22 | 11.9 | 24 | 9.8 | 24 | 8.8 | 28 |
| 33 Rd | 30 | 3.4 | 33 | 2.1 | 32 | 2.6 | 36 |
| Clifton Elementary | 29 | 0.6 | 30 | 0.3 | 29 | 0.3 | 30 |
| Holland St | 29 | 0.6 | 28 | 0.6 | 28 | 0.8 | 28 |
| Lois St | 27 | 1.1 | 29 | 0.7 | 28 | 1.2 | 28 |
| Smallwood Lane | 21 | 1.7 | 22 | 1.3 | 18 | 2.7 | 24 |
| 2nd St | 10 | 10.6 | 8 | 15.4 | 8 | 13.7 | 10 |
| 32 1/2 Rd | 27 | 1.4 | 27 | 1.8 | 27 | 2.1 | 26 |
|  | 6 | 39.6 | 5 | 45.2 | 7 | 32.3 | 6 |
| I-70B | 19 | 70.9 | 18 | 77.0 | 20 | 64.6 | 20 |

Arterial Level of Service: EB US 6C

| Cross Street | Node | Delay <br> $(\mathrm{s} /$ veh $)$ | Travel <br> time $(\mathrm{s})$ | Dist <br> $(\mathrm{mi})$ | Arterial <br> Speed | Run <br> Speed | Run 1 <br> Delay |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| l-70B | 1 | 43.3 | 67.4 | 0.3 | 18 | 20 | 37.5 |
|  | 38 | 3.2 | 13.0 | 0.1 | 21 | 22 | 2.3 |
| 1st St | 28 | 28.6 | 39.4 | 0.1 | 8 | 9 | 27.5 |
| 2nd St | 34 | 2.9 | 7.8 | 0.0 | 19 | 20 | 2.7 |
|  | 49 | 0.9 | 5.1 | 0.0 | 24 | 24 | 1.0 |
| Lois St | 30 | 0.8 | 12.0 | 0.1 | 28 | 29 | 0.7 |
| Holland St | 25 | 0.5 | 7.4 | 0.1 | 28 | 28 | 0.4 |
| 5th St | 46 | 0.6 | 4.9 | 0.0 | 28 | 28 | 0.6 |
| 33 Rd | 23 | 9.5 | 34.8 | 0.2 | 25 | 23 | 12.0 |
| Total |  | 90.2 | 191.9 | 1.0 | 19 | 20 | 84.6 |

Arterial Level of Service: EB US 6C

| Cross Street | Run 2 <br> Speed | Run 2 <br> Delay | Run 3 <br> Speed | Run 3 <br> Delay | Run 4 <br> Speed | Run 4 <br> Delay | Run 5 <br> Speed |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| l-70B | 16 | 48.1 | 17 | 44.9 | 17 | 43.2 | 17 |
|  | 24 | 2.4 | 20 | 3.5 | 19 | 4.3 | 21 |
| 1st St | 11 | 20.4 | 8 | 32.0 | 8 | 33.4 | 9 |
| 2nd St | 20 | 2.6 | 18 | 3.4 | 19 | 3.1 | 21 |
|  | 24 | 0.7 | 23 | 1.1 | 23 | 1.0 | 25 |
| Lois St | 28 | 0.7 | 28 | 0.7 | 28 | 0.7 | 28 |
| Holland St | 29 | 0.3 | 28 | 0.5 | 27 | 0.6 | 29 |
| 5th St | 28 | 0.4 | 27 | 0.6 | 26 | 0.9 | 30 |
| 33 Rd | 24 | 8.7 | 24 | 9.5 | 28 | 5.8 | 24 |
| Total | 19 | 84.3 | 18 | 96.2 | 18 | 93.0 | 19 |

Arterial Level of Service: WB US 6C

| Cross Street | Node | Delay <br> $(\mathrm{s} / \mathrm{veh})$ | Travel <br> time $(\mathrm{s})$ | Dist <br> $(\mathrm{mi})$ | Arterial <br> Speed | Run 1 <br> Speed | Run 1 <br> Delay |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 33 Rd | 23 | 12.0 | 27.5 | 0.2 | 21 | 21 | 12.4 |
| Clifton Elementary | 46 | 3.0 | 27.5 | 0.2 | 31 | 30 | 3.3 |
| Holland St | 25 | 1.1 | 5.3 | 0.0 | 26 | 28 | 0.6 |
| Lois St | 30 | 3.5 | 10.3 | 0.1 | 20 | 23 | 2.6 |
| Smallwood Lane | 49 | 22.0 | 33.5 | 0.1 | 10 | 9 | 26.4 |
| 2nd St | 34 | 10.5 | 14.6 | 0.0 | 8 | 8 | 11.8 |
| 32 1/2 Rd | 28 | 15.7 | 20.3 | 0.0 | 7 | 8 | 15.3 |
|  | 38 | 2.4 | 13.3 | 0.1 | 25 | 25 | 2.4 |
| I-70B | 1 | 42.9 | 49.3 | 0.1 | 5 | 5 | 45.8 |
| Total |  | 113.3 | 201.6 | 0.8 | 15 | 14 | 120.6 |

Arterial Level of Service: WB US 6C

|  | Run 2 <br> Speed | Run 2 <br> Delay | Run 3 <br> Speed | Run 3 <br> Delay | Run 4 <br> Speed | Run 4 <br> Delay | Run 5 <br> Speed |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Cross Street | 22 | 10.8 | 21 | 12.2 | 19 | 14.4 | 23 |
| 33 Rd | 33 | 2.9 | 30 | 3.1 | 32 | 2.6 | 31 |
| Clifton Elementary | 20 | 2.5 | 28 | 0.6 | 29 | 0.6 | 28 |
| Holland St | 13 | 9.8 | 27 | 1.0 | 27 | 1.1 | 22 |
| Lois St | 8 | 33.1 | 14 | 14.6 | 14 | 12.9 | 10 |
| Smallwood Lane | 7 | 12.1 | 8 | 11.1 | 10 | 7.8 | 9 |
| 2nd St | 7 | 16.8 | 7 | 16.3 | 7 | 15.7 | 8 |
| $321 / 2$ Rd | 25 | 2.3 | 25 | 2.2 | 24 | 3.2 | 26 |
|  | 6 | 41.9 | 6 | 39.9 | 5 | 43.5 | 6 |
| I-70B | 14 | 132.2 | 16 | 101.0 | 16 | 101.7 | 15 |

Arterial Level of Service: EB US 6C

| Cross Street | Node | Delay <br> $(\mathrm{s} / \mathrm{veh})$ | Travel <br> time $(\mathrm{s})$ | Dist <br> $(\mathrm{mi})$ | Arterial <br> Speed | Run 1 <br> Speed | Run 1 <br> Delay |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| l-70B | 1 | 103.6 | 127.4 | 0.3 | 9 | 9 | 111.9 |
|  | 38 | 31.9 | 40.4 | 0.1 | 7 | 6 | 37.6 |
| 1st St | 28 | 65.2 | 74.7 | 0.1 | 4 | 4 | 69.7 |
| 2nd St | 34 | 4.5 | 9.3 | 0.0 | 16 | 16 | 4.8 |
|  | 48 | 1.5 | 5.6 | 0.0 | 21 | 21 | 1.6 |
| Lois St | 30 | 0.7 | 12.0 | 0.1 | 29 | 29 | 0.7 |
| Holland St | 44 | 0.4 | 7.5 | 0.1 | 29 | 29 | 0.4 |
| 5th St | 45 | 0.4 | 4.9 | 0.0 | 29 | 29 | 0.3 |
| 33 Rd | 23 | 12.0 | 38.8 | 0.2 | 22 | 25 | 7.7 |
| Total |  | 220.2 | 320.6 | 1.0 | 11 | 11 | 234.6 |

Arterial Level of Service: EB US 6C

| Cross Street | Run 2 <br> Speed | Run 2 <br> Delay | Run 3 <br> Speed | Run 3 <br> Delay | Run 4 <br> Speed | Run 4 <br> Delay | Run 5 <br> Speed |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| I--70B | 9 | 107.5 | 10 | 95.7 | 9 | 108.0 | 10 |
|  | 8 | 25.2 | 6 | 35.5 | 8 | 25.9 | 6 |
| 1st St | 5 | 54.3 | 4 | 78.4 | 5 | 61.3 | 4 |
| 2nd St | 15 | 5.1 | 18 | 3.7 | 17 | 4.0 | 15 |
|  | 21 | 1.7 | 23 | 1.2 | 22 | 1.4 | 21 |
| Lois St | 29 | 0.7 | 29 | 0.6 | 28 | 0.9 | 28 |
| Holland St | 29 | 0.5 | 29 | 0.4 | 28 | 0.6 | 28 |
| 5th St | 29 | 0.4 | 30 | 0.3 | 28 | 0.5 | 28 |
| 33 Rd | 23 | 11.0 | 22 | 12.5 | 20 | 15.3 | 21 |
| Total | 12 | 206.4 | 11 | 228.3 | 11 | 218.0 | 11 |

Arterial Level of Service: WB US 6C

|  | Node | Delay <br> $(\mathrm{s} / \mathrm{veh})$ | Travel <br> time $(\mathrm{s})$ | Dist <br> $(\mathrm{mi})$ | Arterial <br> Speed | Run 1 <br> Speed | Run 1 <br> Delay |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Cross Street | 23 | 8.9 | 24.6 | 0.2 | 24 | 25 | 6.8 |
| 33 Rd | 45 | 2.3 | 27.2 | 0.2 | 31 | 32 | 1.9 |
| Clifton Elementary | 44 | 0.5 | 4.9 | 0.0 | 28 | 29 | 0.4 |
| Holland St | 30 | 0.7 | 7.7 | 0.1 | 28 | 28 | 0.8 |
| Lois St | 48 | 3.2 | 14.4 | 0.1 | 24 | 18 | 7.3 |
| Smallwood Lane | 34 | 3.7 | 7.8 | 0.0 | 15 | 11 | 6.9 |
| 2nd St | 28 | 12.6 | 17.2 | 0.0 | 9 | 8 | 14.4 |
| $321 / 2$ Rd | 38 | 2.0 | 13.0 | 0.1 | 26 | 25 | 2.1 |
|  | 1 | 37.9 | 44.2 | 0.1 | 6 | 6 | 40.8 |
| I-70B |  | 71.7 | 160.9 | 0.8 | 19 | 17 | 81.6 |

Arterial Level of Service: WB US 6C

| Cross Street | Run 2 <br> Speed | Run 2 <br> Delay | Run 3 <br> Speed | Run 3 <br> Delay | Run 4 <br> Speed | Run 4 <br> Delay | Run 5 <br> Speed |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 33 Rd | 23 | 10.4 | 22 | 10.2 | 26 | 6.6 | 24 |
| Clifton Elementary | 31 | 2.6 | 29 | 2.7 | 35 | 1.9 | 31 |
| Holland St | 28 | 0.5 | 28 | 0.5 | 28 | 0.5 | 29 |
| Lois St | 28 | 0.7 | 27 | 0.8 | 29 | 0.6 | 27 |
| Smallwood Lane | 26 | 2.1 | 27 | 1.8 | 28 | 1.1 | 23 |
| 2nd St | 22 | 1.3 | 15 | 4.1 | 20 | 1.7 | 15 |
| $321 / 2$ Rd | 10 | 10.1 | 8 | 14.4 | 9 | 12.0 | 9 |
|  | 27 | 1.7 | 26 | 2.2 | 26 | 1.7 | 26 |
| I-70B | 6 | 35.0 | 6 | 42.1 | 6 | 38.1 | 7 |
| Total | 20 | 64.3 | 18 | 78.7 | 20 | 64.2 | 19 |

Intersection: 1: I-70B \& US 6C

| Movement | EB | EB | EB | WB | WB | WB | NE | NE | NE | SW | SW | SW |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | T | TR | L | T | TR | L | T | T | L | T | T |
| Maximum Queue (ft) | 109 | 148 | 143 | 181 | 164 | 218 | 22 | 9 | 22 | 19 | 20 | 17 |
| Average Queue (ft) | 75 | 97 | 72 | 132 | 99 | 143 | 6 | 3 | 7 | 6 | 8 | 5 |
| 95th Queue (ft) | 117 | 166 | 156 | 208 | 168 | 226 | 27 | 13 | 28 | 25 | 23 | 22 |
| Link Distance (ft) |  | 1644 | 1644 |  | 279 | 279 |  | 491 | 491 | 249 | 249 | 249 |
| Upstream Blk Time (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  | 240 |  |  | 200 |  |  |  |  |  |
| Storage Bay Dist (ft) | 200 |  |  | 0 | 0 |  |  |  |  |  |  |  |
| Storage Blk Time (\%) |  |  |  | 0 | 0 |  |  |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  | 0 |  |  |  |  |  |  |  |  |

Intersection: 2: Front St \& 33 Rd

## Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream BIk Time (\%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (\%)
Queuing Penalty (veh)

Intersection: 5: I-70B \& 32 Rd

| Movement | SE | SE | SE | NW | NW | NW | NE | NE | NE | SW | SW | SW |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | T | T | L | LT | T | L | T | T | L | L | T |
| Maximum Queue ( ft$)$ | 81 | 124 | 68 | 99 | 111 | 61 | 19 | 104 | 80 | 88 | 93 | 164 |
| Average Queue (ft) | 41 | 85 | 18 | 63 | 70 | 19 | 4 | 61 | 49 | 49 | 72 | 121 |
| 95th Queue (ft) | 92 | 151 | 81 | 107 | 125 | 71 | 22 | 111 | 94 | 93 | 100 | 172 |
| Link Distance (ft) |  | 358 | 358 |  | 508 | 508 |  | 716 | 716 |  |  | 461 |
| Upstream Blk Time (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |  |  | 195 |  |  | 400 | 400 |  |
| Storage Bay Dist (ft) | 135 |  |  | 550 |  |  |  |  |  |  |  |  |
| Storage Blk Time (\%) |  | 2 | 0 |  |  |  |  |  |  |  |  |  |

Intersection: 5: I-70B \& 32 Rd

| Movement | SW |
| :--- | ---: |
| Directions Served | T |
| Maximum Queue (ft) | 179 |
| Average Queue (ft) | 141 |
| 95th Queue (ft) | 203 |
| Link Distance (ft) | 461 |
| Upstream Blk Time (\%) |  |
| Queuing Penalty (veh) |  |
| Storage Bay Dist (ft) |  |
| Storage Blk Time (\%) |  |
| Queuing Penalty (veh) |  |

Intersection: 7: I-70B \& Peach Tree

| Movement | SE | NE | NE | SW | SW |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Directions Served | LTR | T | T | T | T |
| Maximum Queue (ft) | 51 | 159 | 181 | 124 | 142 |
| Average Queue (ft) | 24 | 102 | 130 | 89 | 98 |
| 95th Queue (ft) | 56 | 172 | 204 | 141 | 159 |
| Link Distance (ft) | 114 | 710 | 710 | 491 | 491 |
| Upstream Blk Time (\%) |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |  |
| Storage Bay Dist (ft) |  |  |  |  |  |
| Storage Blk Time (\%) |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |  |

Intersection: 9: I-70B

| Movement |
| :--- |
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (\%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (\%) |
| Queuing Penalty (veh) |

Intersection: 11: Old 32 Rd \& I-70B

| Movement | NE | NE | SW | SW |
| :--- | ---: | ---: | ---: | ---: |
| Directions Served | T | T | T | T |
| Maximum Queue (ft) | 65 | 79 | 91 | 98 |
| Average Queue (ft) | 33 | 49 | 62 | 52 |
| 95th Queue (ft) | 68 | 97 | 104 | 106 |
| Link Distance (ft) | 277 | 277 | 716 | 716 |
| Upstream Blk Time (\%) |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |
| Storage Bay Dist (ft) |  |  |  |  |
| Storage Blk Time (\%) |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |

Intersection: 17: I-70B \& Budweiser Access

| Movement | EB | WB | NB |
| :--- | ---: | ---: | ---: |
| Directions Served | R | LTR | L |
| Maximum Queue (ft) | 16 | 42 | 8 |
| Average Queue (ft) | 4 | 25 | 2 |
| 95th Queue (ft) | 20 | 49 | 11 |
| Link Distance (ft) |  | 8 |  |
| Upstream Blk Time (\%) |  | 9 |  |
| Queuing Penalty (veh) |  | 4 |  |
| Storage Bay Dist (ft) | 65 |  | 170 |
| Storage Blk Time (\%) |  |  |  |

Intersection: 20: Frontage Rd

| Movement | EB | SB |
| :--- | ---: | ---: |
| Directions Served | LR | TR |
| Maximum Queue (ft) | 12 | 22 |
| Average Queue (ft) | 2 | 8 |
| 95th Queue (ft) | 16 | 31 |
| Link Distance (ft) | 8 | 426 |
| Upstream Blk Time (\%) | 0 |  |
| Queuing Penalty (veh) | 0 |  |
| Storage Bay Dist (ft) |  |  |
| Storage Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |

Intersection: 23: 33 Rd \& US 6C

| Movement | EB | EB | WB | WB | WB | NB | NB | SB | SB |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | TR | L | T | R | L | TR | L | TR |
| Maximum Queue (ft) | 65 | 134 | 68 | 136 | 22 | 82 | 41 | 26 | 44 |
| Average Queue (ft) | 26 | 76 | 33 | 96 | 6 | 49 | 16 | 6 | 22 |
| 95th Queue (ft) | 76 | 143 | 73 | 157 | 24 | 90 | 47 | 26 | 51 |
| Link Distance (ft) |  | 1180 |  | 800 |  |  |  |  | 450 |
| Upstream Blk Time (\%) |  |  |  |  |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  | 180 | 180 |  | 140 |  |
| Storage Bay Dist (ft) | 115 | 2 | 260 | 0 |  |  |  |  |  |

Intersection: 25: US 6C \& Holland St

| Movement | EB | SB |
| :--- | ---: | ---: |
| Directions Served | L | LR |
| Maximum Queue (ft) | 24 | 24 |
| Average Queue (ft) | 5 | 6 |
| 95th Queue (ft) | 23 | 26 |
| Link Distance (ft) |  | 295 |
| Upstream Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |
| Storage Bay Dist (ft) | 100 |  |
| Storage Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |

Intersection: 28: 1st St/32 1/2 Rd \& US 6C

| Movement | EB | EB | EB | WB | WB | NB | NB | SB | SB |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | T | R | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 32 | 236 | 11 | 122 | 178 | 44 | 34 | 24 | 22 |
| Average Queue (ft) | 11 | 184 | 2 | 51 | 146 | 27 | 10 | 10 | 7 |
| 95th Queue (ft) | 37 | 283 | 20 | 120 | 195 | 54 | 41 | 32 | 29 |
| Link Distance (ft) |  | 427 | 427 | 151 | 151 | 353 | 353 |  | 409 |
| Upstream Blk Time (\%) |  |  |  | 0 | 10 |  |  |  |  |
| Queuing Penalty (veh) |  |  |  | 1 | 32 |  |  | 80 |  |
| Storage Bay Dist (ft) | 400 |  |  |  |  |  |  |  |  |

Intersection: 29: 32 1/2 Rd/1st St \& Front St

| Movement |
| :--- |
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (\%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (\%) |
| Queuing Penalty (veh) |

Intersection: 30: US 6C \& Lois St

| Movement | EB | SB |
| :--- | ---: | ---: |
| Directions Served | L | LR |
| Maximum Queue (ft) | 25 | 54 |
| Average Queue (ft) | 6 | 36 |
| 95th Queue (ft) | 26 | 61 |
| Link Distance (ft) |  | 298 |
| Upstream Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |
| Storage Bay Dist (ft) | 100 |  |
| Storage Blk Time (\%) |  |  |

## Intersection: 33: Front St \& 2nd St

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (\%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (\%)
Queuing Penalty (veh)

Intersection: 34: 2nd St \& US 6C

| Movement | WB | WB | NB |
| :--- | ---: | ---: | ---: |
| Directions Served | L | T | LR |
| Maximum Queue (ft) | 24 | 116 | 63 |
| Average Queue (ft) | 7 | 48 | 42 |
| 95th Queue (ft) | 27 | 125 | 74 |
| Link Distance (ft) |  | 126 |  |
| Upstream Blk Time (\%) |  | 1 |  |
| Queuing Penalty (veh) |  | 7 |  |
| Storage Bay Dist (ft) | 45 |  |  |
| Storage Blk Time (\%) | 0 | 6 |  |
| Queuing Penalty (veh) | 1 | 1 |  |

Intersection: 46: 5th St/Clifton Elementary \& US 6C

| Movement | EB | SB |
| :--- | ---: | ---: |
| Directions Served | L | LTR |
| Maximum Queue (ft) | 34 | 24 |
| Average Queue (ft) | 10 | 7 |
| 95th Queue (ft) | 35 | 27 |
| Link Distance (ft) |  | 262 |
| Upstream Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |
| Storage Bay Dist (ft) | 50 |  |
| Storage Blk Time (\%) | 0 |  |

Intersection: 49: US 6C \& Smallwood Lane

| Movement | EB | WB | WB | SB |
| :--- | ---: | ---: | ---: | ---: |
| Directions Served | L | L | TR | LTR |
| Maximum Queue (ft) | 12 | 12 | 26 | 6 |
| Average Queue (ft) | 2 | 2 | 5 | 1 |
| 95th Queue (ft) | 16 | 16 | 29 | 11 |
| Link Distance (ft) |  |  | 450 | 330 |
| Upstream Blk Time (\%) |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |
| Storage Bay Dist (ft) | 45 | 100 |  |  |
| Storage Blk Time (\%) | 0 |  |  |  |
| Queuing Penalty (veh) | 0 |  |  |  |

## Network Summary

Network wide Queuing Penalty: 49

Intersection: 1: I-70B \& US 6C

| Movement | EB | EB | EB | WB | WB | WB | NE | NE | NE | SW | SW | SW |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | T | TR | L | T | TR | L | T | T | L | T | T |
| Maximum Queue (ft) | 68 | 224 | 168 | 154 | 116 | 147 | 89 | 63 | 59 | 86 | 127 | 85 |
| Average Queue (ft) | 40 | 146 | 116 | 88 | 84 | 103 | 31 | 16 | 17 | 42 | 74 | 34 |
| 95th Queue (ft) | 72 | 225 | 191 | 166 | 129 | 154 | 91 | 72 | 74 | 98 | 143 | 88 |
| Link Distance (ft) |  | 1644 | 1644 |  | 279 | 279 |  | 491 | 491 | 249 | 249 | 249 |
| Upstream Blk Time (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  | 240 |  |  | 200 |  |  |  |  |  |
| Storage Bay Dist (ft) | 200 | 3 |  |  |  |  |  |  |  |  |  |  |
| Storage Blk Time (\%) |  | 3 |  |  |  |  |  |  |  |  |  |  |

Intersection: 1: I-70B \& US 6C

| Movement | SW |
| :--- | ---: |
| Directions Served | R |
| Maximum Queue (ft) | 20 |
| Average Queue (ft) | 5 |
| 95th Queue (ft) | 27 |
| Link Distance (ft) |  |
| Upstream Blk Time (\%) |  |
| Queuing Penalty (veh) |  |
| Storage Bay Dist (ft) | 250 |
| Storage Blk Time (\%) |  |

Intersection: 2: Front St \& 33 Rd

| Movement |
| :--- |
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (\%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (\%) |
| Queuing Penalty (veh) |

Intersection: 5: I-70B \& 32 Rd

| Movement | SE | SE | SE | NW | NW | NW | NE | NE | NE | NE | SW | SW |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | T | T | L | LT | T | L | T | T | R | L | L |
| Maximum Queue (ft) | 117 | 160 | 141 | 114 | 150 | 118 | 37 | 148 | 186 | 34 | 180 | 185 |
| Average Queue (ft) | 63 | 111 | 69 | 72 | 118 | 40 | 18 | 111 | 136 | 7 | 132 | 145 |
| 95th Queue (ft) | 131 | 179 | 158 | 135 | 164 | 111 | 44 | 163 | 203 | 62 | 200 | 207 |
| Link Distance (ft) |  | 358 | 358 |  | 508 | 508 |  | 716 | 716 | 716 |  |  |
| Upstream BIk Time (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |  |  | 195 |  |  |  | 400 | 400 |
| Storage Bay Dist (ft) | 135 |  |  | 550 |  |  |  |  |  |  |  |  |
| Storage Blk Time (\%) | 1 | 6 | 0 |  |  |  |  |  |  |  |  |  |
| Queuing Penalty (veh) | 1 | 5 | 0 |  |  |  |  |  |  |  |  |  |

Intersection: 5: I-70B \& 32 Rd

| Movement | SW | SW |
| :--- | ---: | ---: |
| Directions Served | T | T |
| Maximum Queue (ft) | 130 | 148 |
| Average Queue (ft) | 81 | 103 |
| 95th Queue (ft) | 137 | 157 |
| Link Distance (ft) | 461 | 461 |
| Upstream Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |
| Storage Bay Dist (ft) |  |  |
| Storage Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |

Intersection: 7: I-70B \& Peach Tree

| Movement | SE | NW | NE | NE | SW | SW |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | LTR | L | T | T | T | T |
| Maximum Queue (ft) | 66 | 64 | 216 | 265 | 226 | 153 |
| Average Queue (ft) | 41 | 40 | 168 | 222 | 167 | 117 |
| 95th Queue (ft) | 79 | 73 | 267 | 300 | 264 | 181 |
| Link Distance (ft) | 114 |  | 710 | 710 | 491 | 491 |
| Upstream Blk Time (\%) | 0 |  |  |  |  |  |
| Queuing Penalty (veh) | 0 |  |  |  |  |  |
| Storage Bay Dist (ft) |  | 150 |  |  | 1 |  |
| Storage Blk Time (\%) |  |  | 0 |  | 0 |  |

Intersection: 9: I-70B
Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (\%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (\%)
Queuing Penalty (veh)

Intersection: 11: Old 32 Rd \& I-70B

| Movement |
| :--- |
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (\%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (\%) |
| Queuing Penalty (veh) |

Intersection: 17: I-70B \& Budweiser Access

| Movement | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| Directions Served | R | LTR | LT |
| Maximum Queue (ft) | 20 | 36 | 18 |
| Average Queue (ft) | 8 | 17 | 4 |
| 95th Queue (ft) | 28 | 46 | 17 |
| Link Distance (ft) |  | 8 | 1363 |
| Upstream Blk Time (\%) |  | 6 |  |
| Queuing Penalty (veh) |  | 3 |  |
| Storage Bay Dist (ft) | 65 |  |  |
| Storage Blk Time (\%) |  |  |  |
| Queuing Penalty (veh) |  |  |  |

Intersection: 20: Frontage Rd

| Movement | EB | SB |
| :--- | ---: | ---: |
| Directions Served | LR | TR |
| Maximum Queue (ft) | 11 | 12 |
| Average Queue (ft) | 2 | 4 |
| 95th Queue (ft) | 15 | 20 |
| Link Distance (ft) | 8 | 426 |
| Upstream Blk Time (\%) | 0 |  |
| Queuing Penalty (veh) | 0 |  |
| Storage Bay Dist (ft) |  |  |
| Storage Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |

Intersection: 23: 33 Rd \& US 6C

| Movement | EB | EB | WB | WB | WB | NB | NB | SB | SB |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | TR | L | T | R | L | TR | L | TR |
| Maximum Queue (ft) | 104 | 158 | 48 | 85 | 21 | 69 | 47 | 15 | 37 |
| Average Queue (ft) | 47 | 105 | 31 | 63 | 4 | 42 | 27 | 3 | 21 |
| 95th Queue (ft) | 108 | 197 | 60 | 103 | 20 | 75 | 58 | 16 | 40 |
| Link Distance (ft) |  | 1190 |  | 800 |  |  |  |  | 450 |
| Upstream Blk Time (\%) |  |  |  |  |  |  |  |  |  |
| Queuing Penalty (veh) | 115 |  | 260 |  | 180 | 180 |  | 140 |  |
| Storage Bay Dist (ft) | 115 | 5 |  |  |  |  |  |  |  |

Intersection: 25: US 6C \& Holland St

| Movement | EB | SB |
| :--- | ---: | ---: |
| Directions Served | L | LR |
| Maximum Queue (ft) | 18 | 25 |
| Average Queue (ft) | 5 | 7 |
| 95th Queue (ft) | 23 | 29 |
| Link Distance (ft) |  | 296 |
| Upstream Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |
| Storage Bay Dist (ft) | 100 |  |
| Storage Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |

Intersection: 28: 1st St/32 1/2 Rd \& US 6C

| Movement | EB | EB | EB | B38 | WB | WB | NB | NB | SB | SB |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | T | R | T | L | TR | L | TR | L | TR |
| Maximum Queue ( ft$)$ | 52 | 427 | 11 | 19 | 113 | 168 | 52 | 12 | 6 | 12 |
| Average Queue (ft) | 25 | 327 | 2 | 5 | 69 | 134 | 32 | 5 | 1 | 4 |
| 95th Queue (ft) | 59 | 489 | 19 | 30 | 127 | 193 | 63 | 22 | 11 | 20 |
| Link Distance (ft) |  | 427 | 427 | 279 | 151 | 151 | 353 | 353 |  | 409 |
| Upstream Blk Time (\%) |  | 6 |  |  | 0 | 6 |  |  |  |  |
| Queuing Penalty (veh) |  | 24 |  |  | 1 | 17 |  |  | 80 |  |
| Storage Bay Dist (ft) | 400 | 7 |  |  |  |  |  |  |  |  |
| Storage Blk Time (\%) |  | 7 |  |  |  |  |  |  |  |  |

Intersection: 29: 32 1/2 Rd/1st St \& Front St

| Movement |
| :--- |
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (\%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (\%) |
| Queuing Penalty (veh) |

Intersection: 30: US 6C \& Lois St

| Movement | EB | SB |
| :--- | ---: | ---: |
| Directions Served | L | LR |
| Maximum Queue (ft) | 31 | 50 |
| Average Queue (ft) | 14 | 34 |
| 95th Queue (ft) | 39 | 57 |
| Link Distance (ft) |  | 298 |
| Upstream Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |
| Storage Bay Dist (ft) | 100 |  |
| Storage Blk Time (\%) |  |  |

Intersection: 33: Front St \& 2nd St
Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (\%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (\%)
Queuing Penalty (veh)

Intersection: 34: 2nd St \& US 6C

| Movement | EB | WB | WB | NB |
| :--- | ---: | ---: | ---: | ---: |
| Directions Served | TR | L | T | LR |
| Maximum Queue (ft) | 9 | 56 | 74 | 87 |
| Average Queue (ft) | 2 | 31 | 24 | 61 |
| 95th Queue (ft) | 12 | 66 | 78 | 103 |
| Link Distance (ft) | 151 |  | 126 |  |
| Upstream Blk Time (\%) |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |
| Storage Bay Dist (ft) |  | 45 |  |  |
| Storage Blk Time (\%) |  | 3 | 2 |  |
| Queuing Penalty (veh) |  | 13 | 1 |  |

## Intersection: 46: 5th St/Clifton Elementary \& US 6C

| Movement | EB | NB | SB |
| :--- | ---: | ---: | ---: |
| Directions Served | L | LTR | LTR |
| Maximum Queue (ft) | 24 | 18 | 25 |
| Average Queue (ft) | 8 | 4 | 14 |
| 95th Queue (ft) | 29 | 20 | 39 |
| Link Distance (ft) |  | 327 | 273 |
| Upstream Blk Time (\%) |  |  |  |
| Queuing Penalty (veh) |  |  |  |
| Storage Bay Dist (ft) | 50 |  |  |
| Storage Blk Time (\%) | 0 |  |  |
| Queuing Penalty (veh) | 0 |  |  |

Intersection: 49: US 6C \& Smallwood Lane

| Movement | EB | WB | NB | SB |
| :--- | ---: | ---: | ---: | ---: |
| Directions Served | L | TR | LTR | LTR |
| Maximum Queue (ft) | 30 | 11 | 31 | 31 |
| Average Queue (ft) | 6 | 2 | 20 | 12 |
| 95th Queue (ft) | 26 | 20 | 44 | 36 |
| Link Distance (ft) |  | 450 | 315 | 397 |
| Upstream Blk Time (\%) |  |  |  |  |
| Queuing Penalty (veh) | 45 |  |  |  |
| Storage Bay Dist (ft) | 45 |  |  |  |
| Storage Blk Time (\%) | 0 |  |  |  |
| Queuing Penalty (veh) | 1 |  |  |  |

## Network Summary

Network wide Queuing Penalty: 78

Intersection: 1: I-70B \& US 6C

| Movement | EB | EB | EB | WB | WB | WB | B38 | NE | NE | NE | NE |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| SW |  |  |  |  |  |  |  |  |  |  |  |
| Directions Served | L | T | TR | L | T | TR | T | L | T | T | R |
| Maximum Queue (ft) | 203 | 222 | 224 | 264 | 325 | 265 | 23 | 162 | 349 | 372 | 175 |
| Average Queue (ft) | 166 | 155 | 108 | 234 | 214 | 190 | 5 | 80 | 180 | 190 | 35 |
| 95th Queue (ft) | 246 | 292 | 238 | 301 | 381 | 300 | 41 | 210 | 434 | 441 | 230 |
| Link Distance (ft) |  | 1644 | 1644 |  | 279 | 279 | 427 |  | 491 | 491 | 491 |
| Upstream Blk Time (\%) |  |  |  | 1 | 8 | 1 |  |  | 0 | 1 |  |
| Queuing Penalty (veh) |  |  |  | 0 | 41 | 7 |  |  | 1 | 2 |  |
| Storage Bay Dist (ft) | 200 |  |  | 240 |  |  |  | 200 |  |  |  |
| Storage Blk Time (\%) | 9 | 1 |  | 17 | 4 |  |  | 0 | 11 |  |  |
| Queuing Penalty (veh) | 12 | 4 |  | 34 | 18 |  |  | 0 | 11 |  |  |

Intersection: 1: I-70B \& US 6C

| Movement | SW | SW | SW |
| :--- | ---: | ---: | ---: |
| Directions Served | T | T | R |
| Maximum Queue (ft) | 163 | 170 | 3 |
| Average Queue (ft) | 116 | 103 | 1 |
| 95th Queue (ft) | 190 | 192 | 6 |
| Link Distance (ft) | 249 | 249 |  |
| Upstream Blk Time (\%) |  | 0 |  |
| Queuing Penalty (veh) |  | 0 |  |
| Storage Bay Dist (ft) |  | 0 | 250 |
| Storage Blk Time (\%) |  | 0 |  |
| Queuing Penalty (veh) |  | 0 |  |

Intersection: 2: Front St \& 33 Rd

| Movement |
| :--- |
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (\%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (\%) |
| Queuing Penalty (veh) |

Intersection: 5: I-70B \& 32 Rd

| Movement | SE | SE | SE | NW | NW | NW | NE | NE | NE | SW | SW | SW |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Directions Served | L | T | T | L | LT | T | L | T | T | L | L | T |
| Maximum Queue (ft) | 90 | 130 | 101 | 192 | 198 | 113 | 20 | 157 | 145 | 118 | 134 | 170 |
| Average Queue (ft) | 41 | 92 | 39 | 136 | 132 | 43 | 7 | 117 | 93 | 78 | 96 | 131 |
| 95th Queue (ft) | 95 | 144 | 113 | 220 | 223 | 126 | 26 | 172 | 153 | 141 | 154 | 190 |
| Link Distance (ft) |  | 358 | 358 |  | 508 | 508 |  | 716 | 716 |  |  | 461 |
| Upstream Blk Time (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |  |  |  |  |  |  |  |  |
| Storage Bay Dist (ft) | 135 |  |  | 550 |  |  | 195 |  |  | 400 | 400 |  |
| Storage Bik Time (\%) | 2 | 2 |  |  |  |  |  | 0 |  |  |  |  |
| Queuing Penalty (veh) | 1 | 1 |  |  |  |  |  | 0 |  |  |  |  |

Intersection: 5: I-70B \& 32 Rd

| Movement | SW |
| :--- | ---: |
| Directions Served | T |
| Maximum Queue (ft) | 198 |
| Average Queue (ft) | 149 |
| 95th Queue (ft) | 215 |
| Link Distance (ft) | 461 |
| Upstream Blk Time (\%) |  |
| Queuing Penalty (veh) |  |
| Storage Bay Dist (ft) |  |
| Storage Blk Time (\%) |  |
| Queuing Penalty (veh) |  |

Intersection: 7: I-70B \& Peach Tree

| Movement | SE | NE | NE | SW | SW |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Directions Served | LTR | T | T | T | T |
| Maximum Queue (ft) | 34 | 354 | 383 | 348 | 349 |
| Average Queue (ft) | 18 | 294 | 307 | 253 | 254 |
| 95th Queue (ft) | 44 | 402 | 420 | 396 | 395 |
| Link Distance (ft) | 114 | 710 | 710 | 491 | 491 |
| Upstream Blk Time (\%) |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |  |
| Storage Bay Dist (ft) |  | 6 |  |  |  |
| Storage Blk Time (\%) |  | 0 | 11 |  |  |
| Queuing Penalty (veh) |  | 0 | 0 |  |  |

Intersection: 9: I-70B

| Movement |
| :--- |
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (\%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (\%) |
| Queuing Penalty (veh) |

Intersection: 11: Old 32 Rd \& I-70B

| Movement | NE | NE | SW | SW |
| :--- | ---: | ---: | ---: | ---: |
| Directions Served | T | T | T | T |
| Maximum Queue (ft) | 88 | 81 | 83 | 90 |
| Average Queue (ft) | 51 | 43 | 39 | 38 |
| 95th Queue (ft) | 98 | 92 | 92 | 99 |
| Link Distance (ft) | 277 | 277 | 716 | 716 |
| Upstream Blk Time (\%) |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |
| Storage Bay Dist (ft) |  |  |  |  |
| Storage Blk Time (\%) |  |  |  |  |

Intersection: 17: I-70B \& Budweiser Access

| Movement | EB | EB | WB | NB | NB | NB | SB | SB |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | LT | R | LTR | L | T | T | LT | T |
| Maximum Queue (ft) | 11 | 21 | 49 | 35 | 76 | 64 | 77 | 26 |
| Average Queue (ft) | 3 | 8 | 33 | 19 | 30 | 35 | 28 | 12 |
| 95th Queue (ft) | 18 | 28 | 63 | 46 | 98 | 97 | 80 | 41 |
| Link Distance (ft) | 339 |  | 8 |  | 834 | 834 | 1363 | 1363 |
| Upstream Blk Time (\%) |  |  | 26 |  |  |  |  |  |
| Queuing Penalty (veh) |  |  | 18 |  |  |  |  |  |
| Storage Bay Dist (ft) |  | 65 |  | 170 |  |  |  |  |
| Storage Blk Time (\%) |  |  |  |  |  |  |  |  |

Intersection: 20: Frontage Rd

| Movement | EB | SB |
| :--- | :--- | :--- |
| Directions Served | LR | TR |
| Maximum Queue (ft) | 24 | 38 |
| Average Queue (ft) | 11 | 18 |
| 95th Queue (ft) | 34 | 60 |
| Link Distance (ft) | 8 | 426 |
| Upstream Blk Time (\%) | 0 |  |
| Queuing Penalty (veh) | 0 |  |
| Storage Bay Dist (ft) |  |  |
| Storage Blk Time (\%) |  |  |

Intersection: 23: 33 Rd \& US 6C

| Movement | EB | EB | WB | WB | WB | NB | NB | SB | SB |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | TR | L | T | R | L | TR | L | TR |
| Maximum Queue (ft) | 40 | 113 | 72 | 135 | 11 | 120 | 58 | 30 | 69 |
| Average Queue (ft) | 19 | 71 | 48 | 91 | 2 | 78 | 34 | 11 | 36 |
| 95th Queue (ft) | 50 | 118 | 83 | 142 | 15 | 130 | 71 | 34 | 74 |
| Link Distance (ft) |  | 1194 |  | 800 |  |  |  |  | 450 | | Upstream Blk Time (\%) |
| :--- |
| Queuing Penalty (veh) |
|  |
| Qtorage Bay Dist (ft) |

## Intersection: 25: US 6C \& Holland St

| Movement | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| Directions Served | L | TR | LR |
| Maximum Queue (ft) | 31 | 28 | 28 |
| Average Queue (ft) | 19 | 10 | 8 |
| 95th Queue (ft) | 42 | 65 | 33 |
| Link Distance (ft) |  | 138 | 297 |
| Upstream Blk Time (\%) |  | 0 |  |
| Queuing Penalty (veh) |  | 1 |  |
| Storage Bay Dist (ft) | 100 |  |  |
| Storage Blk Time (\%) |  |  |  |
| Queuing Penalty (veh) |  |  |  |

Intersection: 28: 1st St/32 1/2 Rd \& US 6C

| Movement | EB | EB | EB | WB | WB | NB | NB | SB | SB |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | T | R | L | TR | L | TR | L | TR |
| Maximum Queue (ft) | 39 | 300 | 10 | 141 | 181 | 86 | 31 | 24 | 26 |
| Average Queue (ft) | 15 | 234 | 2 | 75 | 168 | 54 | 12 | 7 | 8 |
| 95th Queue (ft) | 46 | 371 | 19 | 153 | 184 | 95 | 36 | 28 | 32 |
| Link Distance (ft) |  | 427 | 427 | 151 | 151 | 353 | 353 |  | 409 |
| Upstream Blk Time (\%) |  | 0 |  | 3 | 33 |  |  |  |  |
| Queuing Penalty (veh) |  | 1 |  | 14 | 172 |  |  | 80 |  |
| Storage Bay Dist (ft) | 400 | 1 |  |  |  |  |  |  |  |

Intersection: 29: 32 1/2 Rd/1st St \& Front St

| Movement |
| :--- |
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (\%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (\%) |
| Queuing Penalty (veh) |

Intersection: 30: US 6C \& Lois St

| Movement | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| Directions Served | L | TR | LR |
| Maximum Queue (ft) | 43 | 106 | 81 |
| Average Queue (ft) | 27 | 39 | 49 |
| 95th Queue (ft) | 57 | 168 | 89 |
| Link Distance (ft) |  | 251 | 298 |
| Upstream Blk Time (\%) |  | 0 |  |
| Queuing Penalty (veh) |  | 3 |  |
| Storage Bay Dist (ft) | 100 |  |  |
| Storage Blk Time (\%) |  |  |  |
| Queuing Penalty (veh) |  |  |  |

## Intersection: 33: Front St \& 2nd St

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (\%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (\%)
Queuing Penalty (veh)

Intersection: 34: 2nd St \& US 6C

| Movement | EB | WB | WB | NB |
| :--- | ---: | ---: | ---: | ---: |
| Directions Served | TR | L | T | LR |
| Maximum Queue (ft) | 4 | 46 | 146 | 93 |
| Average Queue (ft) | 1 | 20 | 140 | 53 |
| 95th Queue (ft) | 8 | 55 | 149 | 94 |
| Link Distance (ft) | 151 |  | 125 |  |
| Upstream Blk Time (\%) |  |  | 27 |  |
| Queuing Penalty (veh) |  |  | 268 |  |
| Storage Bay Dist (ft) |  | 45 |  |  |
| Storage Blk Time (\%) |  | 0 | 36 |  |
| Queuing Penalty (veh) |  | 3 | 11 |  |

## Intersection: 46: 5th St/Clifton Elementary \& US 6C

| Movement | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| Directions Served | L | TR | LTR |
| Maximum Queue (ft) | 36 | 10 | 35 |
| Average Queue (ft) | 19 | 2 | 17 |
| 95th Queue (ft) | 46 | 19 | 44 |
| Link Distance (ft) |  | 1194 | 274 |
| Upstream Blk Time (\%) |  |  |  |
| Queuing Penalty (veh) |  |  |  |
| Storage Bay Dist (ft) | 50 |  |  |
| Storage Blk Time (\%) | 1 |  |  |
| Queuing Penalty (veh) | 2 |  |  |

Intersection: 49: US 6C \& Smallwood Lane

| Movement | EB | WB | NB | SB |
| :--- | ---: | ---: | ---: | ---: |
| Directions Served | L | LTR | LTR | LTR |
| Maximum Queue (ft) | 30 | 410 | 48 | 40 |
| Average Queue (ft) | 11 | 283 | 24 | 20 |
| 95th Queue (ft) | 35 | 517 | 59 | 54 |
| Link Distance (ft) |  | 450 | 351 | 302 |
| Upstream Blk Time (\%) |  | 2 |  |  |
| Queuing Penalty (veh) |  | 20 |  |  |
| Storage Bay Dist (ft) | 45 |  |  |  |
| Storage Blk Time (\%) | 0 |  |  |  |
| Queuing Penalty (veh) | 1 |  |  |  |

Network Summary
Network wide Queuing Penalty: 648

Queuing and Blocking Report
2040 No Action + Budweiser Access Signal - PM
Intersection: 1: I-70B \& US 6C

| Movement | EB | EB | EB | WB | WB | WB | NE | NE | NE | NE | SW | SW |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Directions Served | L | T | TR | L | T | TR | L | T | T | R | L | T |
| Maximum Queue (ft) | 224 | 453 | 461 | 243 | 190 | 177 | 214 | 303 | 301 | 45 | 222 | 328 |
| Average Queue (ft) | 192 | 326 | 305 | 177 | 116 | 132 | 149 | 196 | 199 | 10 | 134 | 314 |
| 95th Queue (ft) | 290 | 501 | 494 | 268 | 222 | 197 | 250 | 325 | 329 | 54 | 268 | 351 |
| Link Distance (ft) |  | 1644 | 1644 |  | 279 | 279 |  | 491 | 491 | 491 | 249 | 249 |
| Upstream Blk Time (\%) |  |  |  | 0 | 0 |  |  |  |  |  | 6 | 44 |
| Queuing Penalty (veh) |  |  |  | 0 | 1 |  |  |  |  |  | 38 | 295 |
| Storage Bay Dist (ft) | 200 |  |  | 240 |  |  | 200 |  |  |  |  |  |
| Storage BIk Time (\%) | 0 | 51 |  | 5 |  |  | 3 | 17 |  |  |  |  |
| Queuing Penalty (veh) | 0 | 108 |  | 10 |  |  | 11 | 37 |  |  |  |  |

Intersection: 1: I-70B \& US 6C

| Movement | SW | SW | B39 | B39 | B39 | B40 | B40 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | T | R | T | T | T | T | T |
| Maximum Queue (ft) | 320 | 249 | 22 | 309 | 319 | 132 | 119 |
| Average Queue (ft) | 303 | 223 | 4 | 175 | 184 | 30 | 24 |
| 95th Queue (ft) | 363 | 336 | 30 | 357 | 385 | 155 | 135 |
| Link Distance (ft) | 249 |  | 256 | 256 | 256 | 873 | 873 |
| Upstream Blk Time (\%) | 32 | 2 |  | 6 | 9 |  |  |
| Queuing Penalty (veh) | 214 | 0 |  | 39 | 57 |  |  |
| Storage Bay Dist (ft) |  | 250 |  |  |  |  |  |
| Storage Blk Time (\%) | 32 | 2 |  |  |  |  |  |
| Queuing Penalty (veh) | 134 | 14 |  |  |  |  |  |

Intersection: 2: Front St \& 33 Rd

| Movement |
| :--- |
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (\%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (\%) |
| Queuing Penalty (veh) |

Intersection: 5: I-70B \& 32 Rd

| Movement | SE | SE | SE | NW | NW | NW | NE | NE | NE | NE | SW | SW |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | T | T | L | LT | T | L | T | T | R | L | L |
| Maximum Queue (ft) | 154 | 242 | 168 | 200 | 217 | 162 | 126 | 296 | 271 | 127 | 263 | 241 |
| Average Queue (ft) | 84 | 168 | 105 | 151 | 184 | 109 | 76 | 231 | 215 | 49 | 195 | 191 |
| 95th Queue (ft) | 171 | 258 | 205 | 230 | 237 | 201 | 214 | 336 | 325 | 172 | 284 | 261 |
| Link Distance (ft) |  | 358 | 358 |  | 508 | 508 |  | 716 | 716 | 716 |  |  |
| Upstream Blk Time (\%) |  |  |  |  |  |  |  |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |  |  | 195 |  |  |  | 400 | 400 |
| Storage Bay Dist (ft) | 135 |  |  | 550 |  |  | 0 | 20 |  |  |  |  |
| Storage Blk Time (\%) | 2 | 23 | 1 |  |  |  | 0 | 5 |  |  |  |  |
| Queuing Penalty (veh) | 4 | 23 | 0 |  |  |  |  |  |  |  |  |  |

Intersection: 5: I-70B \& 32 Rd

| Movement | SW | SW |
| :--- | ---: | ---: |
| Directions Served | T | T |
| Maximum Queue (ft) | 100 | 127 |
| Average Queue (ft) | 55 | 80 |
| 95th Queue (ft) | 118 | 136 |
| Link Distance (ft) | 461 | 461 |
| Upstream Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |
| Storage Bay Dist (ft) |  |  |
| Storage Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |

Intersection: 7: I-70B \& Peach Tree

| Movement | NE | NE | SW | SW | SW |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Directions Served | T | T | T | T | R |
| Maximum Queue (ft) | 441 | 466 | 352 | 285 | 75 |
| Average Queue (ft) | 368 | 416 | 167 | 135 | 15 |
| 95th Queue (ft) | 466 | 502 | 341 | 282 | 136 |
| Link Distance (ft) | 710 | 710 | 491 | 491 | 491 |
| Upstream Blk Time (\%) |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |  |
| Storage Bay Dist (ft) |  |  |  |  |  |
| Storage Blk Time (\%) | 19 |  |  |  |  |
| Queuing Penalty (veh) | 0 |  | 0 |  |  |

Intersection: 9: I-70B

| Movement | NE | NE |
| :--- | ---: | ---: |
| Directions Served | T | T |
| Maximum Queue (ft) | 92 | 95 |
| Average Queue (ft) | 18 | 37 |
| 95th Queue (ft) | 168 | 243 |
| Link Distance (ft) | 461 | 461 |
| Upstream Blk Time (\%) | 0 | 0 |
| Queuing Penalty (veh) | 0 | 1 |
| Storage Bay Dist (ft) |  |  |
| Storage Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |

Intersection: 11: Old 32 Rd \& I-70B

## Movement

Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue ( ft )
Link Distance (ft)
Upstream Blk Time (\%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (\%)
Queuing Penalty (veh)
Intersection: 17: I-70B \& Budweiser Access

| Movement | EB | EB | WB | NB | NB | NB | SB | SB |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | LT | R | LTR | L | T | T | LT | T |
| Maximum Queue (ft) | 11 | 38 | 29 | 9 | 8 | 27 | 143 | 112 |
| Average Queue (ft) | 2 | 19 | 15 | 4 | 2 | 7 | 57 | 54 |
| 95th Queue (ft) | 15 | 47 | 38 | 17 | 11 | 29 | 152 | 131 |
| Link Distance (ft) | 339 |  | 8 |  | 834 | 834 | 1363 | 1363 |
| Upstream Blk Time (\%) |  |  | 25 |  |  |  |  |  |
| Queuing Penalty (veh) |  |  | 11 |  |  |  |  |  |
| Storage Bay Dist (ft) |  | 65 |  | 170 |  |  |  | 0 |

Queuing and Blocking Report
2040 No Action + Budweiser Access Signal - PM
Intersection: 20: Frontage Rd

| Movement | EB | SB |
| :--- | ---: | ---: |
| Directions Served | LR | TR |
| Maximum Queue (ft) | 22 | 24 |
| Average Queue (ft) | 6 | 5 |
| 95th Queue (ft) | 24 | 24 |
| Link Distance (ft) | 8 | 426 |
| Upstream Blk Time (\%) | 0 |  |
| Queuing Penalty (veh) | 0 |  |
| Storage Bay Dist (ft) |  |  |
| Storage Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |

Intersection: 23: 33 Rd \& US 6C

| Movement | EB | EB | WB | WB | WB | NB | NB | SB | SB |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Directions Served | L | TR | L | T | R | L | TR | L | TR |
| Maximum Queue (ft) | 90 | 200 | 119 | 116 | 23 | 125 | 105 | 29 | 72 |
| Average Queue (ft) | 54 | 120 | 75 | 66 | 9 | 74 | 56 | 9 | 44 |
| 95th Queue (ft) | 110 | 234 | 125 | 124 | 30 | 137 | 110 | 31 | 80 |
| Link Distance (ft) |  | 1185 |  | 800 |  |  |  | 450 |  |
| Upstream Blk Time (\%) |  |  |  |  |  |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |  |  |  |  |  |
| Storage Bay Dist (ft) | 115 |  | 260 |  | 180 | 180 |  | 140 |  |
| Storage Blk Time (\%) |  | 6 |  | 0 |  | 1 |  |  |  |

Intersection: 28: 1st St/32 1/2 Rd \& US 6C

| Movement | EB | EB | EB | B38 | B38 | B38 | WB | WB | NB | NB | SB |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| SB |  |  |  |  |  |  |  |  |  |  |  |
| Directions Served | L | T | R | T | T |  | L | TR | L | TR | L |
| Maximum Queue (ft) | 350 | 509 | 472 | 338 | 366 | 379 | 141 | 173 | 74 | 76 | 28 |
| Av |  |  |  |  |  |  |  |  |  |  |  |
| Average Queue $(\mathrm{ft})$ | 133 | 486 | 273 | 243 | 256 | 152 | 88 | 141 | 41 | 30 | 9 |
| 95th Queue (ft) | 434 | 555 | 621 | 455 | 486 | 463 | 159 | 192 | 82 | 101 | 34 |
| Link Distance (ft) |  | 427 | 427 | 279 | 279 | 279 | 151 | 151 | 353 | 353 | 21 |
| Upstream Blk Time (\%) | 0 | 58 | 6 | 21 | 20 | 10 | 2 | 11 |  |  | 409 |
| Queuing Penalty (veh) | 0 | 344 | 33 | 83 | 81 | 40 | 7 | 47 |  |  |  |
| Storage Bay Dist (ft) | 400 |  |  |  |  |  |  |  |  | 80 |  |
| Storage Blk Time (\%) | 0 | 58 |  |  |  |  |  |  |  |  |  |
| Queuing Penalty (veh) | 0 | 26 |  |  |  |  |  |  |  |  |  |

## Intersection: 29: 32 1/2 Rd/1st St \& Front St

Movement
Directions Served
Maximum Queue (ft)
Average Queue (ft)
95th Queue (ft)
Link Distance (ft)
Upstream Blk Time (\%)
Queuing Penalty (veh)
Storage Bay Dist (ft)
Storage Blk Time (\%)
Queuing Penalty (veh)

## Intersection: 30: US 6C \& Lois St

| Movement | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| Directions Served | L | TR | LR |
| Maximum Queue (ft) | 39 | 4 | 51 |
| Average Queue (ft) | 23 | 1 | 38 |
| 95th Queue (ft) | 49 | 8 | 61 |
| Link Distance (ft) |  | 256 | 298 |
| Upstream Blk Time (\%) |  |  |  |
| Queuing Penalty (veh) |  |  |  |
| Storage Bay Dist (ft) | 100 |  |  |
| Storage Blk Time (\%) |  |  |  |

Intersection: 33: Front St \& 2nd St

| Movement |
| :--- |
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (\%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (\%) |
| Queuing Penalty (veh) |

Intersection: 34: 2nd St \& US 6C

| Movement | EB | WB | WB | NB |
| :--- | ---: | ---: | ---: | ---: |
| Directions Served | TR | L | T | LR |
| Maximum Queue (ft) | 25 | 64 | 124 | 325 |
| Average Queue (ft) | 5 | 43 | 69 | 226 |
| 95th Queue (ft) | 26 | 77 | 167 | 372 |
| Link Distance (ft) | 151 |  | 124 |  |
| Upstream Blk Time (\%) |  |  | 4 |  |
| Queuing Penalty (veh) |  |  | 31 |  |
| Storage Bay Dist (ft) |  | 45 |  |  |
| Storage Blk Time (\%) |  | 13 | 9 |  |
| Queuing Penalty (veh) |  | 88 | 6 |  |

Intersection: 44: US 6C \& Holland St

| Movement | EB | SB |
| :--- | ---: | ---: |
| Directions Served | L | LR |
| Maximum Queue (ft) | 18 | 31 |
| Average Queue (ft) | 8 | 24 |
| 95th Queue (ft) | 29 | 45 |
| Link Distance (ft) |  | 286 |
| Upstream Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |
| Storage Bay Dist (ft) | 100 |  |
| Storage Blk Time (\%) |  |  |
| Queuing Penalty (veh) |  |  |

## Intersection: 45: 5th St/Clifton Elementary \& US 6C

| Movement | EB | WB | NB | SB |
| :--- | ---: | ---: | ---: | ---: |
| Directions Served | L | LTR | LTR | LTR |
| Maximum Queue (ft) | 18 | 12 | 35 | 35 |
| Average Queue (ft) | 7 | 2 | 14 | 16 |
| 95th Queue (ft) | 28 | 16 | 41 | 43 |
| Link Distance (ft) |  | 1185 | 302 | 274 |
| Upstream Blk Time (\%) |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |
| Storage Bay Dist (ft) | 50 |  |  |  |
| Storage Blk Time (\%) |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |

Intersection: 48: US 6C \& Smallwood Lane

| Movement | EB | WB | NB | SB |
| :--- | ---: | ---: | ---: | ---: |
| Directions Served | L | LTR | LTR | LTR |
| Maximum Queue (ft) | 34 | 122 | 35 | 43 |
| Average Queue (ft) | 20 | 44 | 23 | 26 |
| 95th Queue (ft) | 45 | 172 | 47 | 54 |
| Link Distance (ft) |  | 452 | 323 | 404 |
| Upstream Blk Time (\%) |  |  |  |  |
| Queuing Penalty (veh) |  |  |  |  |
| Storage Bay Dist (ft) | 45 |  |  |  |
| Storage Blk Time (\%) | 2 |  |  |  |
| Queuing Penalty (veh) | 15 |  |  |  |

## Network Summary

Network wide Queuing Penalty: 1815

Travel Demand Forecasting Methodology and Forecast Volumes

The GVMPO utilizes a travel demand forecast model to estimate future transportation demand in the region. A travel demand model is a planning tool for assessing alternative improvements to a transportation system, given projected future demand. This model uses future population and economic forecasts and other variables, including land use patterns and estimates of future activity from local governments. The model provides output in the form of estimated traffic volumes on the roadway system.

Due to the complexity of real-world driver behavior and individual roadway characteristics, travel demand forecasting models cannot be expected to result in precise representations of traffic volumes on each roadway. A common technique used to improve the reliability of travel demand forecasts is referred to as post-processing adjustment. This technique uses comparisons of the base year model's predicted traffic volumes versus actual traffic counts. These comparisons provide estimations of the error associated with the model's representation of travel conditions. The model-produced forecasts can then be adjusted to account for the errors found in the model to provide more reliable forecasts. This post-processing adjustment methodology, as prescribed in the National Cooperative Highway Research Program (NCHRP) Report 255 and NCHRP Report 765 (an update to 255), was applied to the US 6C Clifton Transportation Study traffic forecasts.

The traffic forecast data, calculations, and results were coordinated directly with GVMPO. The attached table includes daily traffic counts, seasonally adjusted daily counts, the raw model outputs for base and future year daily volumes, and the 2040 daily forecast volumes. At the far right of the table are the Mesa County 2040 daily forecast volumes and the adjusted 2040 forecast volumes based on traffic counts performed for this study and the NCHRP methodologies. The differences between these two columns were reviewed and a recommended 2040 daily forecast volume, shown in the blue column, was developed with approval from GVMPO.

## Travel Demand Forecasts - Daily Volumes

| Roadway |  | 2010 Unadjusted Travel Model Volumes | 2014 Raw Count | Seasonally <br> Adjusted 2014 <br> Traffic Counts | \% Difference (2014 Counts vs 2010 Model) | 2009-2011 Counts <br> from Mesa County/ CDOT | Seasonally Adj. 2009-2011 Counts from Mesa County/ CDOT | 2040 Unadjusted <br> Travel Model Vols | \% Annual Growth (2010 Model to 2040 Model) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Roadway | Location | 2010 2-Way Model Volumes | $2014 \text { 2-Way }$ Count |  |  |  |  | 2040 2-Way Model Volumes |  |
| $\stackrel{\infty}{\stackrel{\infty}{+}}$ | South of I-70 Interchange | 20,070 | 13,609 | 14,072 | -29.89\% | 18,913 | 17,721 | 39,000 | 2.24\% |
|  | South of Budweiser Access | 20,170 | 13,174 | 13,622 | -32.46\% |  |  | 41,903 | 2.47\% |
|  | South of Old 32 Road | 21,125 | 14,890 | 15,396 | -27.12\% | 18,438 | 17,276 | 32,231 | 1.42\% |
|  | West of 32 Road | 13,745 | 13,675 | 14,454 | 5.16\% | 15,925 | 14,094 | 17,513 | 0.81\% |
|  | West of I-70 B | 11,075 |  |  |  | 17,942 | 15,879 | 15,614 | 1.15\% |
|  | East of I-70 B | 17,463 | 14,140 | 14,946 | -14.41\% | 17,192 | 15,215 | 22,419 | 0.84\% |
|  | Between 1st and 2nd Streets | 18,153 |  |  |  |  |  | 23,790 | 0.91\% |
|  | West of Lois Street | 17,733 |  |  |  | 13,315 | 11,784 | 21,931 | 0.71\% |
|  | West of 33 Road | 14,676 | 11,515 | 12,171 | -17.07\% | 11,855 | 10,492 | 17,175 | 0.53\% |
|  | East of 33 Road | 9,721 | 7,935 | 8,387 | -13.72\% | 7,575 | 6,704 | 11,722 | 0.63\% |
| 2nd St | South of F Road (US6C) | 490 | 3,280 | 3,280 | 569.39\% | 2,397 | 2,397 | 2,516 | 5.60\% |
| Front St | West of 33 Road | NA | 290 | 290 | NA | 289 | 289 | NA | NA |
| 33 Rd | North of F Rd (US 6C) | 3,008 | 2,840 | 2,840 | -5.59\% | 3,161 | 3,161 | 5,467 | 2.01\% |
|  | South of F Rd (US 6C) | 3,825 | 3,785 | 3,785 | -1.05\% | 3,827 | 3,827 | 7,871 | 2.43\% |

Source: Mesa County 2010 and 2040 Travel Demand Models, All Traffic Data
Seasonally adjusted for November (1.057 for US 6C and 1.034 for I-7OB) per CDOT 2011-2013 factors.
Seasonally adjusted for summer ( 0.885 for US $6 C$ and 0.937 for $1-70 B$ ) per CDOT 2011-2013 factors.

| 2040 Forecast Daily Volumes |  |  |  |
| :---: | :---: | :---: | :---: |
| Mesa County <br> 2040 Forecast | DEA Adjusted <br> 2040 Forecast* | RECOMMENDED <br> 2040 for US 6 6 <br> Study | \% Annual <br> Growth vs 2014 <br> Count |
| 39,000 | 36,650 | 37,000 | $3.8 \%$ |
| 39,094 | - | 37,000 | $3.9 \%$ |
| 28,572 | 28,380 | 28,000 | $2.3 \%$ |
| 22,351 | 17,960 | 21,000 | $1.4 \%$ |
| 23,159 | 22,390 | 22,000 | NA |
| 21,854 | 20,170 | 21,000 | $1.3 \%$ |
| 22,459 | - | 22,000 | NA |
| 16,543 | 15,980 | 16,000 | NA |
| 14,115 | 12,990 | 15,000 | $0.8 \%$ |
| 9,253 | 8,700 | 11,000 | $1.0 \%$ |
| 2,516 | 4,420 | 4,000 | $0.8 \%$ |
| NA | NA | 500 | $2.0 \%$ |
| 5,467 | 5,620 | 5,000 | $2.2 \%$ |
| 7,871 | 7,870 | 8,000 | $2.9 \%$ |

*DEA Adjustments based on '09-'11 counts, unadjusted model
*DEA Adjustments based on $\mathbf{0 g - 1 1}$ counts, unadjusted model
volumes, \& NCHRP ratio/numerical adjustment methodology.
volumes, \& NCHRP ratio/numerical adjustment methodology.
Estimate of annual growth
$N A=$ Not Applicable. No existing counts were available


[^0]:    Source: Utility company key maps and GIS, DEA field observations

[^1]:    Concepts for improving streets walkways, and private development in the Clifton Fruitvale area.

