# AFFIDAVIT OF CUSTODIAN OF BUSINESS RECORDS (490.692 RSMo)

STATE OF JACKSON ) ss COUNTY OF MISSOURI

Before me, the undersigned notary public, personally appeared Virginia Walsh, who, being by me duly sworn, deposed as follows:

My name is Virginia Walsh. I am of sound mind, capable of making this affidavit, and personally acquainted with the facts herein stated:

I am the custodian of the records of the Development Management Division of the City Development Department of Kansas City, Missouri. Attached hereto are the following records: Final Development Plan (8 pages), Traffic Impact Study (84 pages) and General Development Plan and Blight Study (140 pages) relating to the Boulevard Brewing Company. These records are kept in the regular course of business. It was the regular course of business for an employee or representative, with knowledge of the act, event, condition, opinion, or diagnosis recorded to make the record or to transmit information thereof to be included in such record. The records attached hereto are the original or exact duplicates of the original.

In witness whereof, I have hereunto subscribed my name and affixed my official seal this

Mary alies Roll

day of March, 2006.

Notary Public - Notary Seal

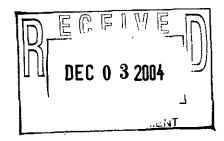
Commission #04410015 My Commission Expires: September 25, 2008 My commission expires:

# BOULEVARD BREWING COMPANY EXPANSION 25<sup>TH</sup> STREET AND SOUTHWEST BOULEVARD KANSAS CITY, MISSOURI

TRAFFIC IMPACT STUDY

DECEMBER 2004

OA Project No. 2003-1280





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## 1.0 INTRODUCTION & OBJECTIVE

This report studies the traffic impacts regarding the proposed Boulevard Brewing Company Expansion development located in Kansas City, Missouri. A vicinity map illustrates the approximate location of the development in Figure 1.

The objective of this study is to evaluate the existing traffic and roadway conditions and the traffic impacts expected from the proposed development, and the future traffic impacts. The appropriate intersection geometrics and traffic control improvements necessary to accommodate the increased traffic on the study area roadways were identified. For the purpose of this study the existing, existing + development and future year 2024 scenarios were evaluated based on discussion with City staff. The study area intersections include the following:

- Southwest Blvd and 25<sup>th</sup> Street
- Southwest Blvd and 26<sup>th</sup> Street
- 26<sup>th</sup> Street and Jarboe Street
- 26<sup>th</sup> Street and Belleview Avenue
- 25<sup>th</sup> Street and Belleview Avenue

## 2.0 DESCRIPTION OF PROPOSED DEVELOPMENT

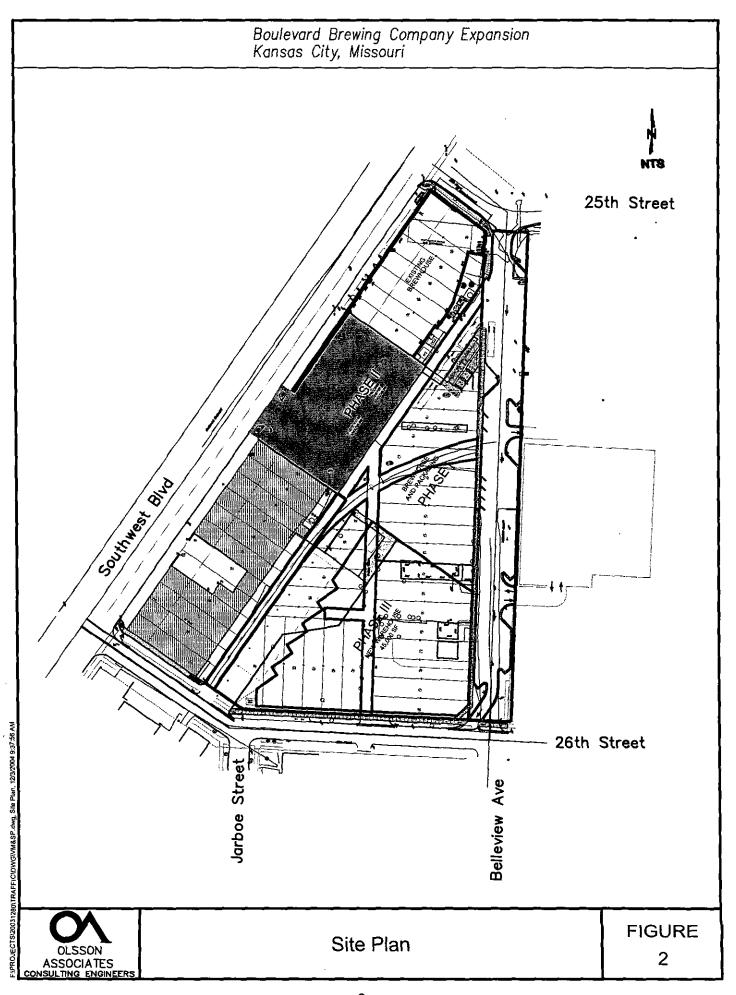
The proposed development is bound by Southwest Blvd to the West of the site, 26<sup>th</sup> Street on the South, Belleview Avenue on the East, and 25<sup>th</sup> Street on the North. The existing Brewery currently totals 48,150 SF. The site development includes expansion of the existing Boulevard Brewing Company in three phases:

- Phase I includes development of 'Brewhouse and Packaging', totaling 68,500 SF of floor area, with an estimated completion in 2006.
- Phase II includes development of 'Fermentation Cellars and Brewery Support Systems', totaling 16,000 SF of floor area with an estimated completion by 2017.
   Phase II includes demolition of 23,250 SF of existing floor area. Thus the net loss of floor area in Phase II is 7,250 SF.
- Phase III includes development of 'New Warehouse' totaling 45,000 SF of floor area, with an estimated completion by 2020.

Proposed access to the site is from two locations. The first entrance is at 25<sup>th</sup> Street onto the proposed vacated right of way that was previously Belleview Avenue. The second is an entrance only for truck traffic on Southwest Blvd, located between 25<sup>th</sup> Street and 26<sup>th</sup> Street, which is proposed to be provided during Phase II. There are also proposed to be two egress locations. The first is at 26<sup>th</sup> and Belleview Avenue, and the other for the limited exiting truck traffic only at 26<sup>th</sup> Street, near Jarboe Street. A site plan for the proposed development is illustrated in Figure 2.







## 3.0 DATA COLLECTION

Existing traffic volume turning movement counts were collected on Wednesday August 18<sup>th</sup>, 2004 from 7:00 to 9:00am and 4:00 to 6:00pm, at the following intersections:

- Southwest Blvd and 25<sup>th</sup> Street
- Southwest Blvd and 26<sup>th</sup> Street
- 26<sup>th</sup> Street and Jarboe Street
- 26<sup>th</sup> Street and Belleview Avenue
- 25<sup>th</sup> Street and Belleview Avenue

These existing traffic volumes are illustrated in Figure 3. Additionally, a 24-hour count was conducted on Southwest Blvd, on August 31, 2004, to determine the peak hour of adjacent street traffic. The peak hour of traffic was determined to be between 4:45 – 5:45 PM. The traffic count data reports are attached in the appendix of this report.

## 4.0 EXISTING TRAFFIC CONDITIONS

Southwest Blvd is currently a four-lane arterial roadway, with two traveling lanes in each direction, in the vicinity of the site development. The posted speed limit on Southwest Blvd is 35 mph near the proposed development. 25th Street is a two-lane roadway with one lane in each direction of travel, with a posted speed limit of 30 mph in the eastbound direction, and a posted speed limit of 20 mph westbound. 26th Street is a two-lane roadway with one lane in each direction of travel and a posted speed limit of 25 mph. Belleview Avenue is a one-way street southbound south of the intersection of 26th Street, whereas it is a two-way street with one lane in each direction between 25th and 26th Street. The existing traffic conditions were obtained by field data collection that Olsson Associates conducted. Currently the Average Daily Traffic (ADT) on Southwest Blvd is 15,414 vehicles per day. The existing peak hour turning movement volumes are illustrated in Figure 3. The intersections of Southwest Blvd with 25th Street and 26th Street are currently unsignalized with Stop control on 25th Street and 26th Street. Currently the westbound left turning movement at the intersection of Southwest Blvd with 25th Street is restricted. Thus vehicles on 25th Street destined south on Southwest Blvd are routed via Madison Avenue to make left turns at the intersection of Southwest Blvd with 26th Street. The existing intersection geometrics and traffic control for the study area intersections are illustrated in Figure 4.

## 4.1 Capacity Analysis

Unsignalized capacity analyses were performed in accordance with chapter 17 of the HCM using the Highway Capacity Software (HCS2000), version 4.1b. Signalized intersection capacity analyses were performed using SYNCHRO, version 6.0, based on the Highway Capacity Manual (HCM) delay methodology. For simplicity, the amount of delay is equated to a grade or Level of Service (LOS) based on thresholds of driver acceptance. A letter grade between A and F is assigned, where LOS A represents the best operation. Table 1 represents the LOS associated with intersection control delay, in seconds per vehicle (sec/veh), for signalized and unsignalized intersections.

Table 1: Intersection Level of Service Summary

	INTERSECTION DELAY (sec/veh)									
LOS	SIGNALIZED	UNSIGNALIZED								
A	0-10	0-10								
В	10.1-20	10.1-15								
С	20.1-35	15.1-25								
D	35.1-55	25.1-35								
E	55.1-80	35.1-50								
F	>80	>50								

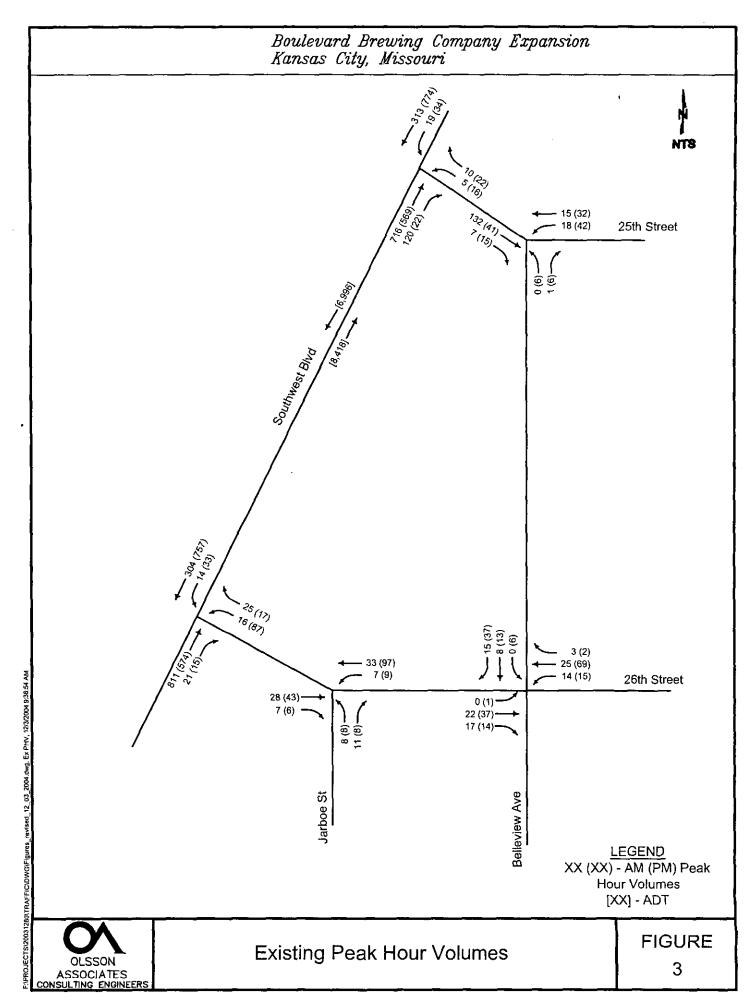
Unsignalized intersection capacity results at the intersection of Southwest Blvd and 25<sup>th</sup> Street indicate that the westbound movement, from 25<sup>th</sup> Street onto Southwest Blvd, is

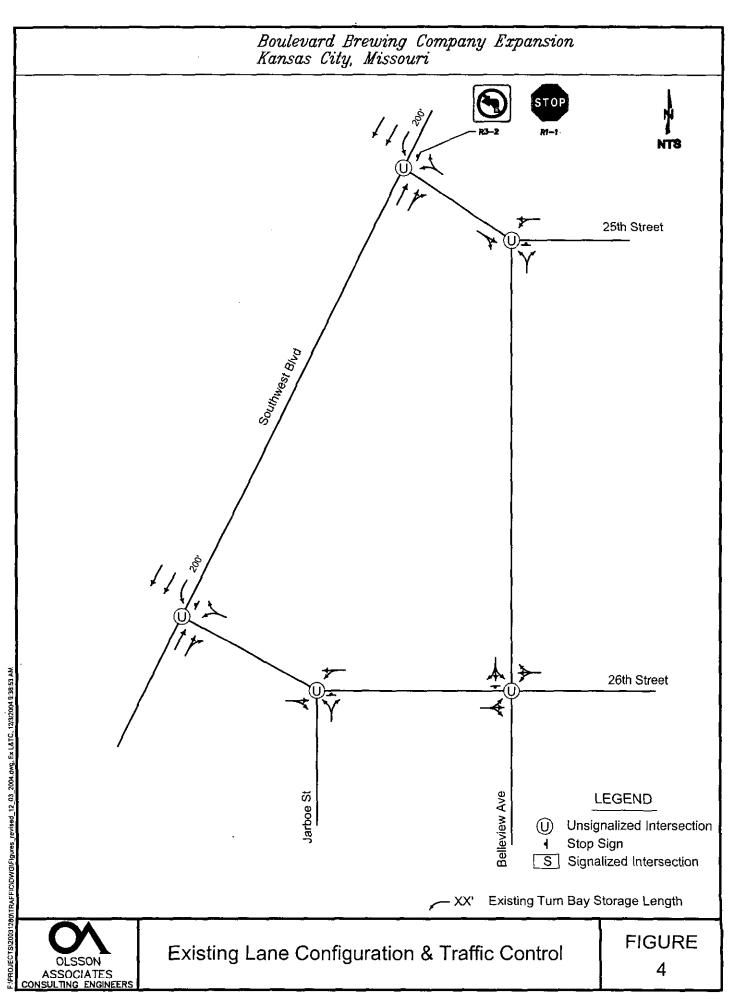


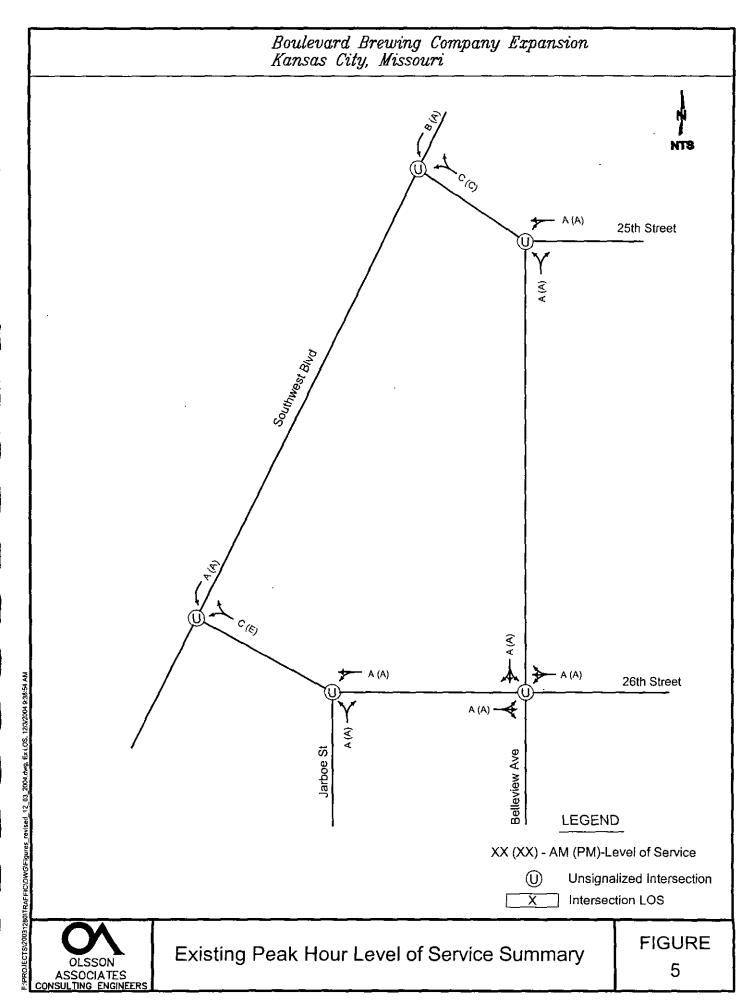
currently operating at LOS C during both the AM and PM peak periods. Although it is posted to restrict left turns at the intersection, it was observed that 5 and 16 vehicles were making left turns during the AM and PM peak hour, respectively. The southbound left turn movement from Southwest Blvd onto 26<sup>th</sup> Street is currently operating at LOS B and A during the AM and PM peak periods, respectively.

Unsignalized intersection capacity results at the intersection of Southwest Blvd and 26<sup>th</sup> Street indicate that overall the westbound movement from 26<sup>th</sup> Street onto Southwest Blvd is currently operating at LOS C and LOS E during the AM and PM peak periods, respectively. The southbound left turn movement from Southwest Blvd onto 26<sup>th</sup> Street is currently operating at LOS A during both the AM and PM peak periods.

Unsignalized capacity analyses results indicate that all of the unsignalized movements at the intersections of 25<sup>th</sup> Street and Belleview Ave, 26<sup>th</sup> Street and Belleview Ave, and 26<sup>th</sup> Street and Jarboe Street are currently operating at LOS A during both the AM and PM peak periods. Complete capacity analyses results for the existing conditions are illustrated in Figure 5.







## 5.0 EXISTING + PHASE I DEVELOPMENT TRAFFIC CONDITIONS

Phase I includes development of 'Brewhouse and Packaging', totaling 68,500 SF of floor area, in addition to the existing facility. In this scenario the trips from the proposed development were added to the existing traffic volumes. Capacity analysis was completed based on these traffic volumes. Additionally, sight distance, pedestrian, and geometric issues were studied.

## 5.1 Trip Generation and Distribution

Trip generation characteristics expected for the site are shown in Table 2. These characteristics are based on trip generation data included in the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (7<sup>th</sup> Edition). For trip generation determination the site was classified as Manufacturing as described in the trip generation manual. The site is expected to generate 245 additional daily trips on an average weekday. The site is expected to generate 28 of those trips during the AM peak hour and 41 during the PM peak hour. Complete trip generation data is illustrated in Table 2.

Table 2: Trip Generation for Phase I of the Site Development

			Daily Tri	ip Generation				•		
ITE Code/Page	Land Use	S <u>iz</u>	e	Trip Gen. _Avg. Rate/Eq.	Daily <u>Tri</u> ps	Trip Dis Enter	tribution _Exit	Daily Enter	Trips <u>Exit</u>	Total Trips
140/160	Manufacturing	68,500	SF	Equation	245	50%	50%	123	122	245
Total		_		<u></u>	<u>_</u>		·· <b>·</b>	123	122	245
		,	AM Peal	k Hour Trip Gen	eration					
(TE Code/Page	Land Use	Siz	e	Trip Gen. _Avg. Rate/Eq.	AM Peak Hour Trips	Trip Dis Enter	tribution Exit	AM Peak I	Total Trips	
140/160	Manufacturing	68,500	SF	Equation	28	77%	23%	22	6	28
Total		<u>-</u>					<u> </u>	22	6	28
		ī	PM Peal	k Hour Trip Gen	eration					
ITE Code/Page	Land Use	Siz	e	Trip Gen. Avg. Rate/Eg.	PM Peak Hour Trips	Trip Dis Enter	tribution Exit	PM Peak I Enter	Hour Trips Exit	Total Trips
140/160	Manufacturing	68,500	SF	Equation	41	36%	64%	15	26	41
Total							<del></del>	15	26	41

During phase I it is anticipated that there could be up to 2 and 3 trucks destined to or from the site during the AM and PM peak hours, respectively. This equates to



approximately 7% of trips destined to the site are truck traffic. This will not increase the existing overall truck percentage on Southwest Blvd. The existing 3% truck traffic on Southwest Blvd was used in the analysis along with the 7% truck traffic destined to the site.

A traffic distribution was developed for the development site based on review of the area and existing traffic volumes. The distribution of the trips generated from the site is as follows:

- 48% North on Southwest Blvd
- 48% South on Southwest Blvd
- 4% East on 25<sup>th</sup> Street

The additional peak hour trips for the development, following distribution and assignment to the roadway network are illustrated in Figure 6. These development site trips were added to the existing traffic volumes. The resulting existing + development peak hour traffic volumes are illustrated in Figure 7. The existing + development intersection geometrics and traffic control, for the study area intersections, are illustrated in Figure 8.

## 5.2 Signal Warrant Analysis

The Manual on Uniform Traffic Control Devices (MUTCD-2003 Edition) provides eight signal warrants for evaluation of signalization at intersections. Typically, traffic signalization is warranted based on a complete review of traffic information including volumes, pedestrians, accident experience, and traffic progression. The preliminary need for signalization at study area intersections was evaluated based on the Peak Hour Warrant (Warrant 3) contained in the MUTCD. Because this study does not estimate the other criteria for signalization warrants, only Warrant 3 dealing with peak hour traffic volumes was used to evaluate the need for signalization.

Both the intersections of Southwest Blvd with 25<sup>th</sup> Street and 26<sup>th</sup> Street were evaluated for signal warrants based on existing + development traffic conditions. Based on the existing + development traffic volumes neither intersection is expected to meet the warrant for signalization and thus were analyzed as unsignalized intersections.

Recently, however, traffic has been rerouted to 26<sup>th</sup> Street from 25<sup>th</sup> Street via Madison Avenue by the addition of advanced signing and a 'No Left Turn' sign restriction on 25<sup>th</sup> Street at Southwest Blvd. The turning restriction was put in place due to the limited sight distance for left turning traffic from 25<sup>th</sup> Street onto Southwest Blvd. In addition, the Post Office Redevelopment is expected to add a number of trips to 25<sup>th</sup> Street. Based on the traffic study completed for this development by TranSystems Corporation in February 2003, an additional 125 and 170 peak hour trips are expected to be added to 25<sup>th</sup> Street, to the West of Summit Street, during the early AM and PM peak hour, respectively. The study also states that while not a study intersection, with the additional traffic added to 25<sup>th</sup> Street, a traffic signal may be warranted at 25<sup>th</sup> Street



and Southwest Blvd. At the time the Post Office Redevelopment is complete, and considering any rerouted traffic from 26<sup>th</sup> Street, it is anticipated that a signal would be warranted. 25<sup>th</sup> Street, as opposed to 26<sup>th</sup> Street, is likely the most logical option due to the better connectivity of 25<sup>th</sup> Street with the adjacent roadway network.

## 5.3 Capacity Analysis

Unsignalized intersection capacity results at the intersection of Southwest Blvd and 25<sup>th</sup> Street indicate that the westbound movement from 25<sup>th</sup> Street turning onto Southwest Blvd is expected to operate at LOS C during both the AM and PM peak periods. Even with the turning restriction posted a similar proportion of motorists are expected to still make a left turn, which is reducing the level of service for this movement. The southbound left turn movement from Southwest Blvd onto 25<sup>th</sup> Street is expected to operate at LOS B and LOS A during the AM and PM peak periods, respectively.

Unsignalized intersection capacity results at the intersection of Southwest Blvd and 26<sup>th</sup> Street indicate that the westbound left turn movement from 26<sup>th</sup> Street onto Southwest Blvd is expected to operate at LOS C and LOS E during the AM and PM peak periods, respectively. A westbound right turn lane on 26<sup>th</sup> Street was recommended to reduce delay for vehicles turning right onto Southwest Blvd. The westbound right turn movement from 26<sup>th</sup> Street onto Southwest Blvd is expected to operate at LOS B during both the AM and PM peak periods. The southbound left turn movement from Southwest Blvd onto 26<sup>th</sup> Street is expected to operate at LOS A during both the AM and PM peak periods.

Unsignalized capacity analyses results indicate that all of the unsignalized movements at the intersections of 25<sup>th</sup> Street and Belleview Ave, 26<sup>th</sup> Street and Belleview Ave, and 26<sup>th</sup> Street and Jarboe Street are expected to operate at LOS A during both the AM and PM peak periods. Complete capacity analyses results for the existing + Phase I development conditions are illustrated in Figure 9.

## 5.4 Intersection Sight Distance

Intersection sight distance was measured at all of the proposed driveways and intersections at Southwest Boulevard. The sight distance measurements are illustrated in Figure 10. All of the proposed driveways have adequate sight distance. Belleview Avenue is proposed to be a one-way street southbound and thus there would not be a northbound movement or a sight distance concern. The intersection of 25<sup>th</sup> Street and Southwest Boulevard has poor sight distance on 25<sup>th</sup> Street looking to the North. Thus, this was the reason for the recent posted restriction of left turns from 25<sup>th</sup> Street onto Southwest Boulevard. The sight distance measured on 26<sup>th</sup> Street looking north on Southwest Boulevard was the same as the sight distance required for this movement. The sight restriction in this direction was the on street parked vehicles. Thus, it is recommended to restrict parking for northbound Southwest Boulevard traffic a minimum of 60' North of the intersection with 26<sup>th</sup> Street.



#### 5.5 Vacation of Belleview Avenue

Currently Madison Avenue is providing the primary connectivity between 25th Street and 26th Street. The very limited traffic on Belleview Avenue is predominately from the local properties. In analyzing the existing data and study of the area it seems appropriate to vacate the public street. Additionally, it is recommended that Belleview Avenue become a one-way street southbound, which is consistent with Belleview Avenue South of 26<sup>th</sup> Street. It is recommended that Belleview should be maintained and left open at all times and not 'gated'.

## 5.6 Walkability

The City of Kansas City, Missouri, has recently adopted a Walkability Plan and is requiring new developments to analyze the pedestrian accommodations in the area. This section of the study documents the pedestrian level of service analysis based on the methodologies outlined in Appendix C of the Kansas City Walkability Plan.

## Existing Condition:

A 10' or wider sidewalk exists for the majority of the Boulevard Brewing Company frontage along Southwest Boulevard. Additionally, a newly reconstructed sidewalk is in place on the west side of Southwest Boulevard. Pedestrian crossings are provided under the railroad bridge North of 25<sup>th</sup> Street on both sides of Southwest Boulevard. The pedestrian crosswalks are currently not striped across both 25<sup>th</sup> Street and 26<sup>th</sup> Street at the intersection with Southwest Boulevard. A sidewalk exists along 26<sup>th</sup> Street between Southwest Boulevard and Belleview Avenue. However, portions of the sidewalk are in poor condition.

Sidewalk connectivity is currently provided from Southwest Boulevard to Belleview Avenue along 25<sup>th</sup> Street. In addition, a new sidewalk is proposed to be provided along the entire length of Belleview Avenue adjacent to the site. This new sidewalk will enhance the existing conditions and provide pedestrians an area where there are currently no accommodations.

#### Walkability Analysis:

For the purposes of this study, the 'Pedestrian Level of Service Requirements by Pedestrian Area Type' was classified as 'Walking To/From Transit Stops. This classification defines the LOS requirement for the following five criteria:

- Directness
- Continuity
- Street Crossings
- Visual Interest & Amenity
- Security



The following destination areas, within the walkability boundary, were determined based on input from City staff and are illustrated below:

- A: Southwest Boulevard & Summit Street (Commercial Area)
- B: 25<sup>th</sup> Street & Summit (Bus Stop)
- C: 26<sup>th</sup> Street & Southwest Boulevard (Bus Stop)



The LOS for each criteria was determined for the above destination areas as follows. The complete LOS worksheet is shown in Table 4.

#### Directness:

Directness analyzes if the pedestrian network is providing the shortest possible route. The proposed site is not expected to have any internal destinations. Thus, only on-site to edge and edge to the three destinations listed above were analyzed. The level of service worksheet included in the Walkability Plan provides criteria for calculating a directness ratio. This ratio takes the actual distance divided by the minimum distance assuming a right angle grid overlay. Table 3 shows the actual and measured distances to the three locations and the calculated ratio (A/M) and corresponding LOS. The distances are the same for both the current and proposed development.



**Table 3: Walkability Directness Calculation:** 

Γ	Origin	Destination	Actual Dist. (Ft.)	Measured Dist. (Ft.)	A/M	LOS
1	General Access Door to Brewery	Southwest Boulevard & Summit Street	1289	1622	0.79	Α
1	General Access Door to Brewery	25th Street & Summit Street	612	621	0.99	А
3	General Access Door to Brewery	26th Street & Southwest Boulevard	900	1089	0.83	Α

Level of Service A is defined by all A/M values <1.2. All current and proposed directness calculations were determined to be LOS A.

## Continuity:

Continuity analyzes if the sidewalk network is free from gaps and barriers. Based on the Kansas City Pedestrian Levels of Service analysis contained in Appendix C. The study area contains mainly continuous stretches of sidewalks that may have variable widths, with and without landscaped parkways; maintenance problems occur in less than 20% of sidewalks. This description is consistent with the existing and proposed condition of the study area sidewalk and represents LOS C.

## Street Crossings:

Pedestrian level of service analysis was completed for the following intersections and are included in the appendix of this report:

- 25<sup>th</sup> Street & Southwest Boulevard
- 26<sup>th</sup> Street & Southwest Boulevard
- 25<sup>th</sup> Street & Belleview

The analysis indicates that the street crossings are currently operating at LOS C. However, evaluating existing conditions it is recommended that the crosswalks be striped and a new ADA compliant pedestrian ramp be installed in the NE quadrant of 26<sup>th</sup> Street and Southwest Boulevard. With these associated improvements the LOS is expected to be at LOS B for the proposed edge to destination. The LOS criteria was determined from the description given in <u>Kansas City Pedestrian Levels of Service</u> for *Street Crossings: Unsignalized, Crossing the Minor Street*.

#### Visual Interest & Amenity:

Visual Interest & Amenity evaluates if the environment is attractive and comfortable, offering protection from harsh conditions. Based on the definition given in Appendix C of the Walkability study the study area most closely follows the description for LOS C: Functionally operational with less importance to visual interest or amenity. Protection from elements available over 25% of block on average. Seating or resting places averages once every 3 to 4 blocks.



#### Security:

Security evaluates if the environment is secure, well lighted with good line of sight to see the pedestrian, and far away enough from vehicular traffic to provide a feeling of safety. Good, if uneven, lighting levels on pedestrian routes and unobstructed lines of sight. Street edge of sidewalk separated from the street/traffic by at least 5 feet. This description is similar to that defined by LOS B. The overall pedestrian level of service worksheet is illustrated in Table 4.

Table 4: Pedestrian Level of Service Worksheet

			Minimum level of service based on project location classification												
	1,320 feet of proposed to	Classification (see ext) =Internal or		Directness	Continuity	Street Crossings	Visual Interest & Amenity	Security							
_	development edge E	xternal to Site	Minimum LOS>	В	C	C	C	В							
			Current On Site to Internal Destination	N/A	N/A	N/A	N/A	N/A							
	1		Proposed On Site to Internal Destination	N/A	N/A	N/A	N/A	N/A							
			Current On Site to Edge	A	Α.	N/A	В	В							
	Development Site		Proposed On Site to Edge	Α	Ā	N/A	В	В							
1	Southwest Boulevard & C	Commercial	Current Edge to Destination	Α	C	O	O	В							
	Summit Street		Proposed Edge to Destination	Α	С	В	С	В							
2	25th Street & Summit T	ransit Stop	Current Edge to Destination	Α	С	С	С	В							
	Street		Proposed Edge to Destination	Α	С	В	С	8							
3	26th Street & T	ransit Stop	Current Edge to Destination	Ā	С	C	C	В							
	Southwest Boulevard	· ·	Proposed Edge to Destination	A	C	В	С	В							
	Summary		Current On Site to Edge	Α	Α	N/A	В	В							
			Current Edge to Destination	Α	С	С	С	В							
	1		Proposed Edge to Destination	Α	C	В	С	В							

#### Walkability Recommendations:

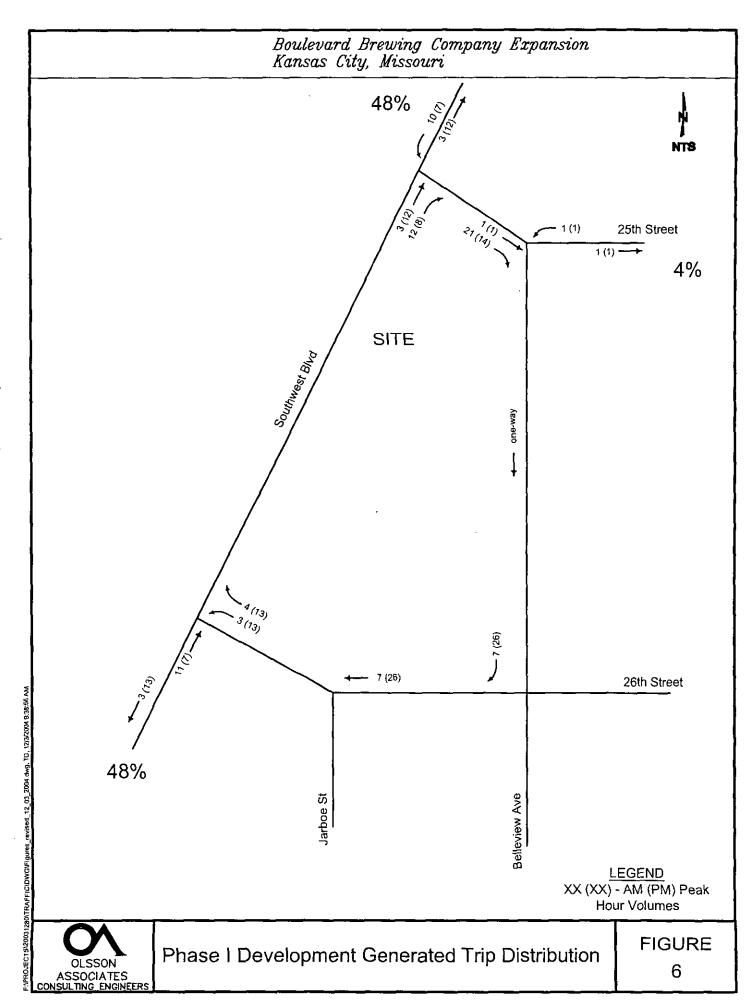
The pedestrian crosswalks should be striped across both 25<sup>th</sup> Street and 26<sup>th</sup> Street at the intersection with Southwest Boulevard. It is recommended that a new ADA compliant pedestrian ramp be installed in the NE quadrant of 26<sup>th</sup> Street and Southwest Boulevard. New ADA compliant ramps should be installed at all new curb return locations. It is recommended that inadequate sections of the sidewalk be replaced or a new sidewalk be constructed on the north side of 26<sup>th</sup> Street between Belleview Avenue and Southwest Boulevard when work is being completed in the south part of the development during phase 3.

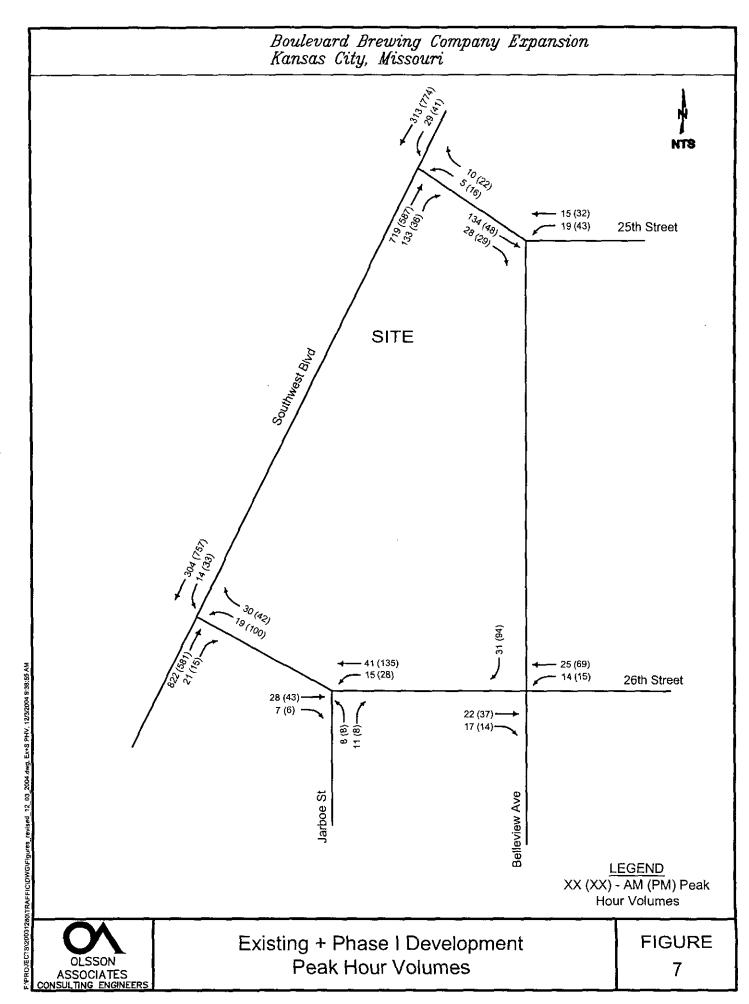
#### 5.7 Bike Path

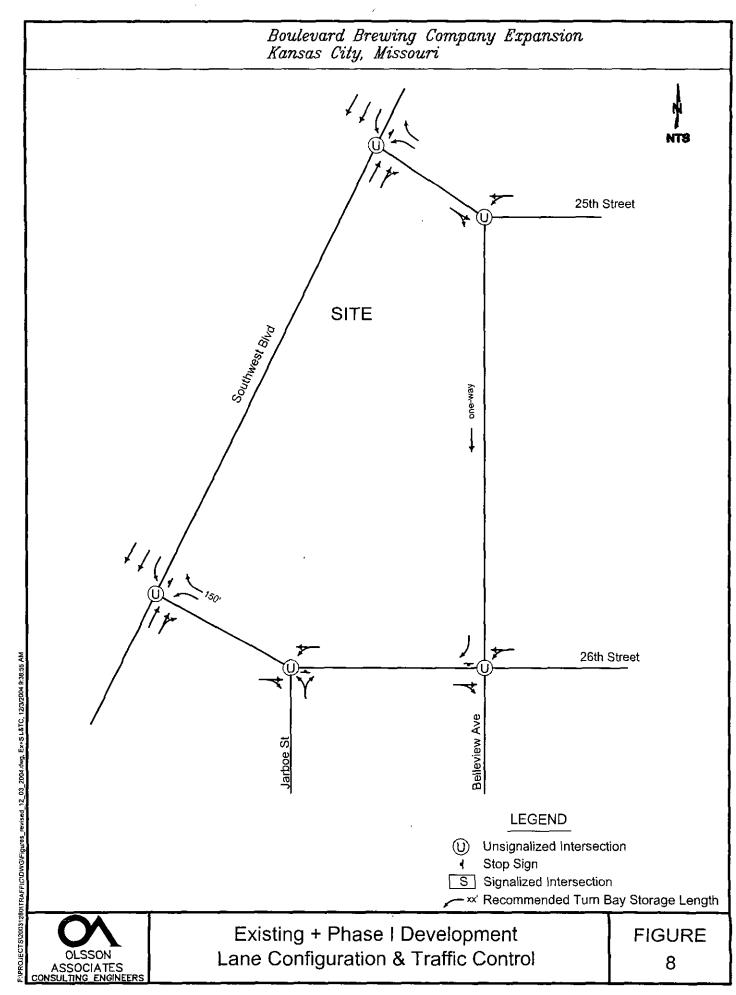
Based on our review of the existing sidewalk conditions along Southwest Boulevard it appears that in general there is adequate room for bike access. There are a couple of utility poles that should be relocated when this route is ultimately developed.

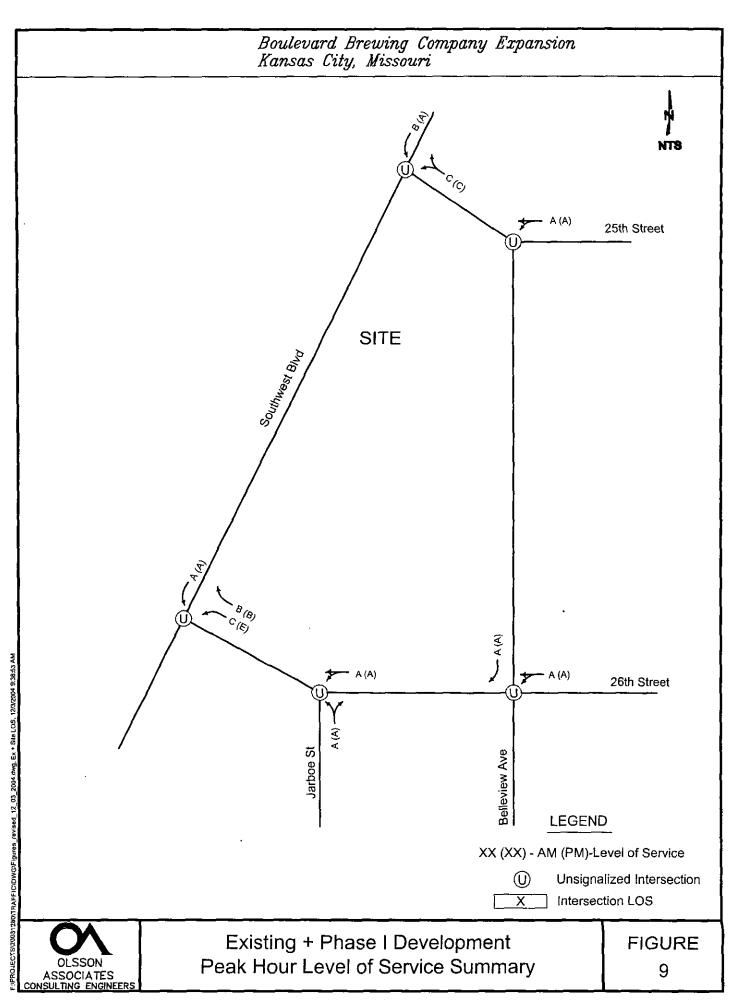
## 5.8 Driveway Geometrics

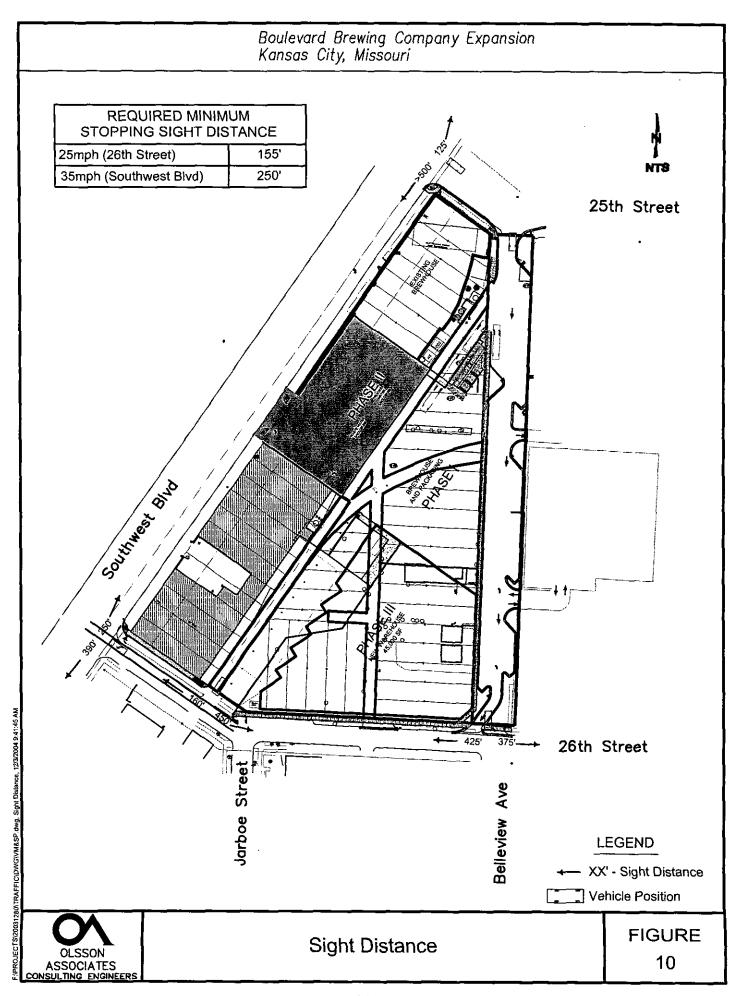
The proposed entrance from the private alley to 26<sup>th</sup> Street is wider than the typical commercial driveway entrance. We have reviewed these geometrics and have determined that they do not pose a safety or capacity issue. The reason for the proposed width is simply to provide adequate room for the truck turning radius onto 26th street without causing vehicles to encroach into the oncoming lanes. In our opinion, the proposed geometrics will be an improvement from existing conditions.











## 6.0 YEAR 2024 TRAFFIC CONDITIONS

The future scenario was analyzed incorporating both Phase II and Phase III development, the Post Office redevelopment traffic, and the expected background traffic growth. The future year 2024 scenario includes both Phases II and III, since these phases of development are estimated to be completed in the year 2017 and 2020, respectively. Year 2024 background traffic volumes were developed using growth rates that were determined based on discussion with the City staff. A growth factor of 1.22 was applied to the existing traffic volumes and represents the background traffic growth over the next 20 years. The trip generation due to future phases of site development with the Post Office redevelopment traffic and the background traffic growth was added to the Existing +Phase I traffic volumes.

## 6.1 Trip Generation and Distribution

Future year scenario includes completion of all phases of site development. Trip generation characteristics expected for the future year scenario are determined from the trip generation data included in the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (7<sup>th</sup> Edition). The net growth of floor area for both Phases II and III is 37,750 SF. The site is expected to generate 147 additional daily trips on an average weekday. The site is expected to generate 31 of those trips during the AM peak hour and 29 during the PM peak hour. Complete trip generation data is illustrated in Table 3.

Table 5: Trip Generation for Phases II & III of the Site Development

#### **Daily Trip Generation**

	ITE				Trip Gen.	Daily	Trip Dis	tribution	Daily Trips		
	Code/Page	Land Use	Size		Avg. Rate/Eq.	Trips	Enter	Exit	Enter	Exit	
Total	140/160	Manufacturing	106,250	SF	Equation	392	50%	50%	196	196	
Phase I	140/160	Manufacturing	68,500	SF	Equation	245	50%	50%	123	122	
Phase II & III			37,750			147			73	74	

#### AM Peak Hour Trip Generation

	ITE				Trip Gen.	AM Peak	Trip Dis	tribution	AM Peak l	Hour Trips
	Code/Page	Land Use	Size	<u> </u>	Avg. Rate/Eq.	Hour Trips	Enter	Exit	Enter	Exit
Total	140/160	Manufacturing	106,250	SF	Equation	59	77%	23%	45	14
Phase!	140/160	Manufacturing	68,500	SF	Equation	28	77%	23%	22	6
Phase II & III			37,750			31			23	8

#### PM Peak Hour Trip Generation

	ITE				Trip Gen.	PM Peak	•	tribution	PM Peak I		
	Code/Page	Land Use	Size	<u> </u>	Avg, Rate/Eq.	Hour Trips	Enter	Exit	Enter	Exit	
Total	140/160	Manufacturing	106,250	SF	Equation	70	36%	64%	25	45	
Phase (	140/160	Manufacturing	68,500	SF	Equation	41	36%	64%	15	26	
Phase II & III	<del></del>	<del></del>	37,750			29			10	19	

The additional peak hour trips for the development, following distribution and assignment to the roadway network are illustrated in Figure 11. These development site trips were added to the existing + Phase I development trips plus the Post Office redevelopment traffic and background traffic growth. The resulting year 2024 peak hour traffic volumes are illustrated in Figure 12. Phase II and Phase III development includes one-way truck entrance from Southwest Blvd, and a one-way Private Drive exiting vehicles onto 26<sup>th</sup> Street. Future year 2024 intersection geometrics and traffic control are illustrated in Figure 13.

## 6.2 Signal Warrant Analysis

Considering the Post Office Redevelopment traffic the intersection of 25<sup>th</sup> Street and Southwest Blvd is expected to meet the warrant and be signalized and was analyzed as such.

Due to the signalization at 25<sup>th</sup> street a minor redistribution of traffic from 26<sup>th</sup> Street to 25<sup>th</sup> Street was evaluated. Based on the estimated redistribution a signal is not expected to be warranted at 26<sup>th</sup> Street and Southwest Blvd.

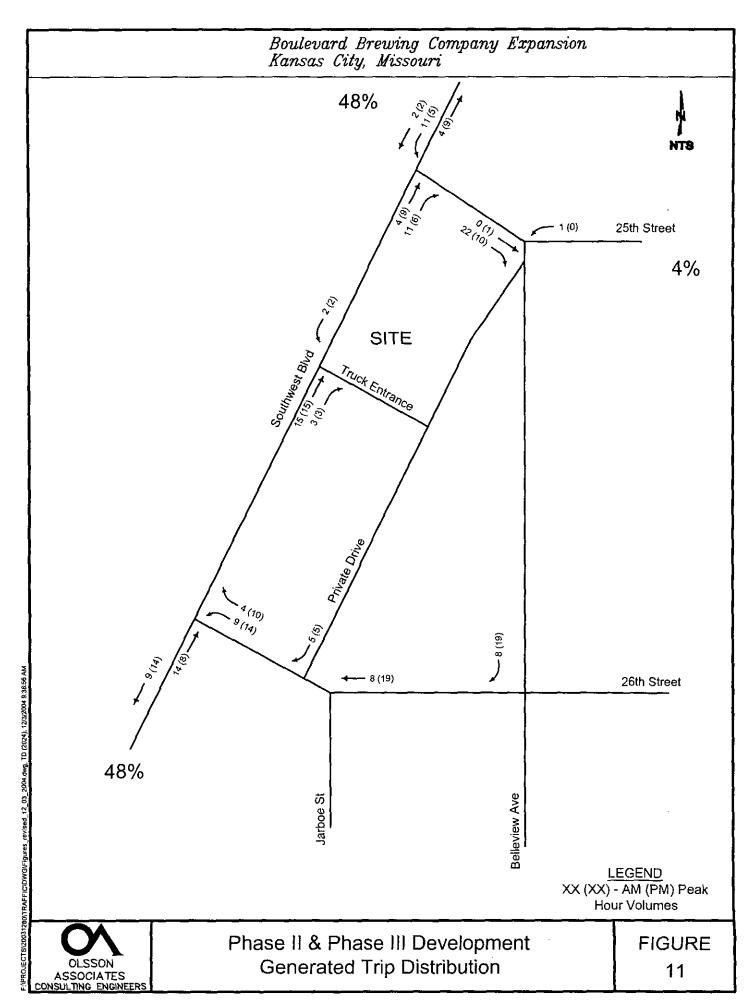
## 6.3 Capacity Analysis

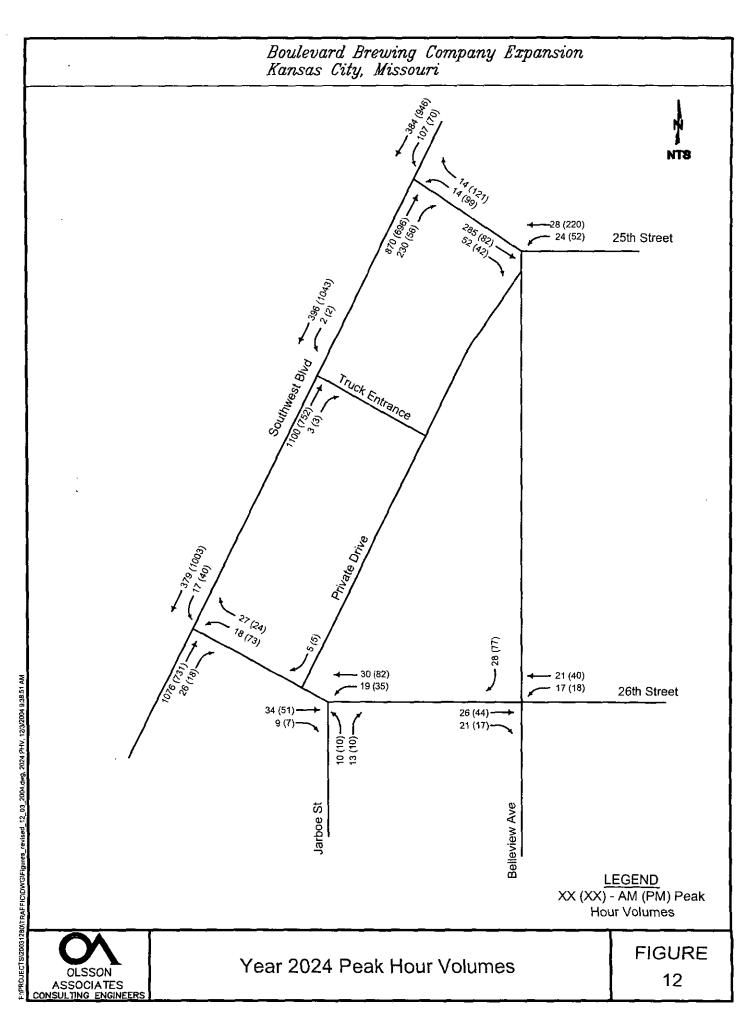
Signalized intersection capacity results at the intersection of Southwest Blvd and 25<sup>th</sup> Street indicate that the overall intersection is expected to operate at LOS A during both peak periods. All movements are expected to operate at LOS C or better during both peak periods.

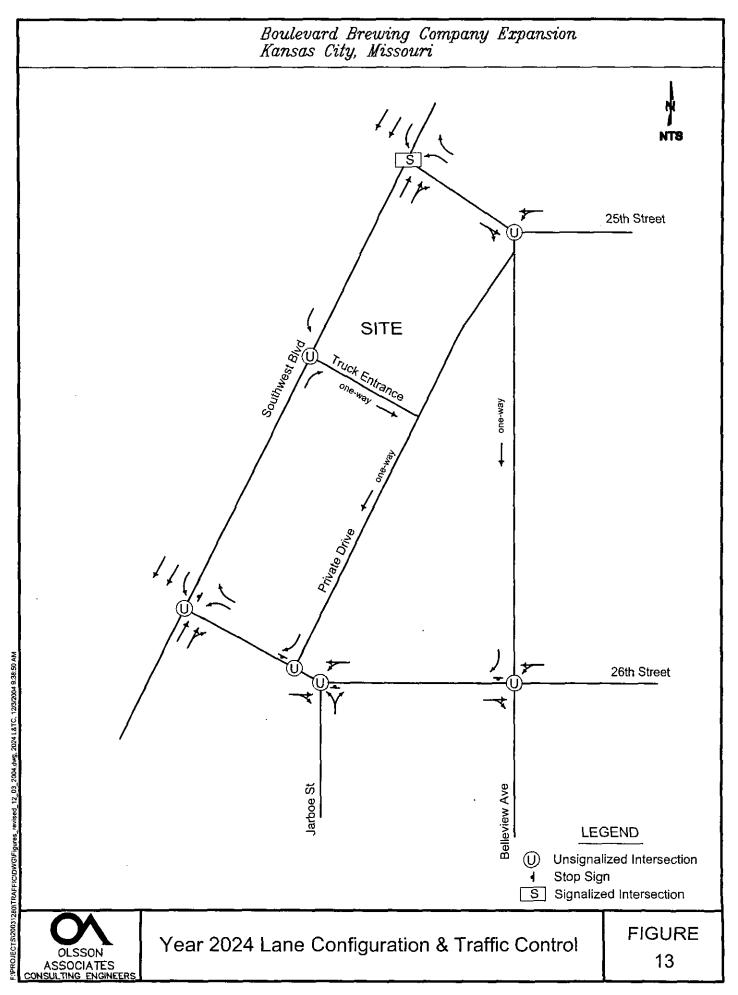
Unsignalized intersection capacity results at the intersection of Southwest Blvd and 26<sup>th</sup> Street indicate that the westbound left turn movement from 26<sup>th</sup> Street onto Southwest Blvd is expected to operate at LOS E and LOS F during the AM and PM peak periods, respectively. The westbound right turn movement from 26<sup>th</sup> Street onto Southwest Blvd is expected to operate at LOS B during both the AM and PM peak periods. The southbound left turn movement from Southwest Blvd onto 26<sup>th</sup> Street is expected to operate at LOS B and LOS A during the AM and PM peak periods, respectively.

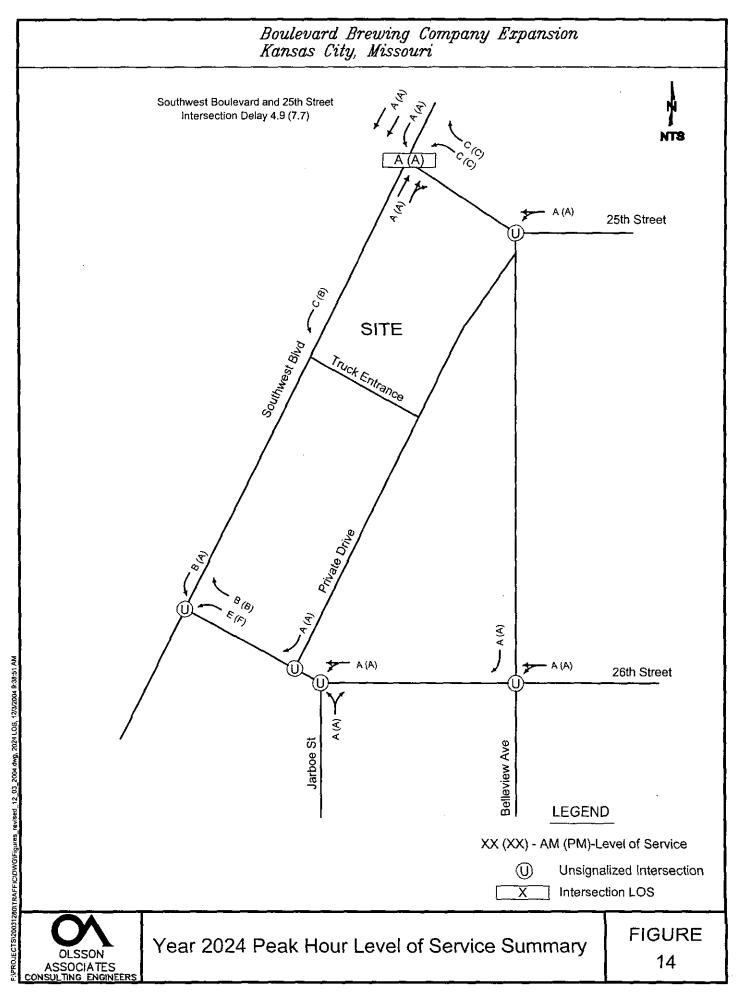
Unsignalized capacity analyses results indicate that all of the unsignalized movements at the intersections of 25<sup>th</sup> Street and Belleview Ave, 26<sup>th</sup> Street and Belleview Ave, 26<sup>th</sup> Street and Private Drive, and 26<sup>th</sup> Street and Jarboe Street are expected to operate at LOS A during both the AM and PM peak periods. Complete capacity analyses results for the future year 2024 conditions are illustrated in Figure 14.











## 7.0 RECOMMENDATIONS & CONCLUSIONS

Based on the results of all the capacity analyses and field observations, the following conclusions and recommendations are made:

#### RECOMMENDATIONS FOR EXISTING + PHASE I DEVELOPMENT CONDITIONS

- Provide a left and right turn lane for westbound 26<sup>th</sup> Street turning onto Southwest Boulevard to reduce delay for the turning vehicle traffic on 26<sup>th</sup> Street.
- Based on the additional traffic expected to be generated by the Post Office Redevelopment, a traffic signal is expected to be warranted at the intersection of 25<sup>th</sup> Street and Southwest Blvd. The intersections of Southwest Blvd with 25<sup>th</sup> Street and 26<sup>th</sup> Street and the associated traffic patterns should be monitored to determine at what time a traffic signal may be warranted. 25<sup>th</sup> Street, as opposed to 26<sup>th</sup> Street, is likely the most logical option due to the better connectivity of 25<sup>th</sup> Street with the adjacent roadway network. Another advantage of signalizing the intersection of Southwest Blvd and 25<sup>th</sup> Street is removing the restricted westbound left turn movement at this intersection. This restriction is currently re-directing all westbound traffic from a major collector street (25th Street), including truck traffic, onto a narrow minor collector/residential street (26th Street). However one disadvantage of signalization is overcoming design issues of signal indication placement, due to poor vertical line of sight for the vehicles approaching southbound on Southwest Blvd under the existing railroad overpass.
- The pedestrian crosswalks should be striped across both 25<sup>th</sup> Street and 26<sup>th</sup> Street at the intersection with Southwest Boulevard. It is recommended that a new ADA compliant pedestrian ramp be installed in the NE quadrant of 26<sup>th</sup> Street and Southwest Boulevard. New ADA compliant ramps should be installed at all new curb return locations.
- It is recommended that Belleview Avenue be vacated but should be maintained and left open at all times and not 'gated'.
- A new sidewalk is recommended to be provided along the entire length of Belleview Avenue adjacent to the site. This new sidewalk will enhance and provide an area where there are currently no pedestrian accommodations.

#### **RECOMMENDATIONS FOR YEAR 2024 CONDITIONS**

 It is recommended that inadequate sections be replaced or a new sidewalk be constructed on the north side of 26<sup>th</sup> Street between Belleview Avenue and Southwest Boulevard when work is being completed in the south part of the development during phase 3.



# **APPENDIX:**

- Raw Traffic Data
- Existing Signal Warrants
- Existing Reports
- Existing + Phase I Development Signal Warrants
- Existing + Phase I Development Reports
- Pedestrian LOS Analysis Street Crossings
- 2024 Signal Warrants
- 2024 Reports

• Raw Traffic Data

## **Turning Movement Counts**

Ilsson Associates
outhwest Blvd & 25th Street
Jity of Kansas City, MO
ata Collector: CP

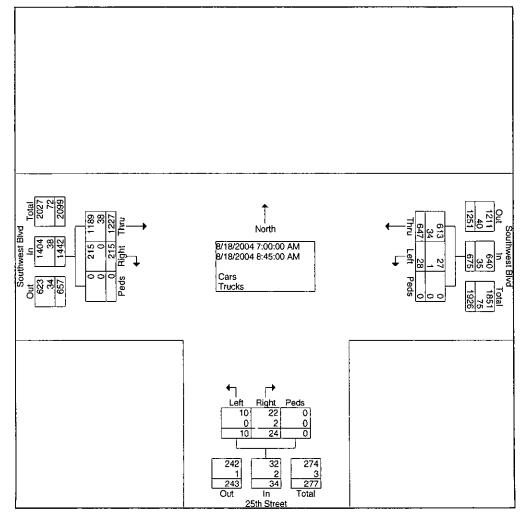
File Name: SW\_Blvd\_25th\_St\_AM Site Code: 00000000

Site Code : 00000000 Start Date : 08/18/2004

Page No : 1

Groups Printed- Cars - Trucks

		2	oth Stre	eet	1		Sou	thwest		,,,,,,,,,	25th Street Southwest Blvd							]			
.1	_	Fı	om No	rth		From East					From South					From West					
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Factor	1.0	1.0	1.0	1,0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	3.0	1.0	1.0		
07:00 AM		0	0	0	0	0	81	J	0	82	1	0	0	0	1	23	115	0	0	138	221
D7:15 AM	0	0	0	0	0	0	64	2	0	66	4	0	2	0	6	22	132	0	0	154	226
07:30 AM	0	0	0	0	0	0	91	4	0	95	3	0	0	0	3	28	147	3	0	178	276
07:45 AM	0	0	0	0	0	0	82	4	0	86	4	0	2	0	6	25	167	0	٥	192	284
Total	0	0	0	0	0	0	318	11	0	329	12	0	4	0	16	98	561	3	0	662	1007
D8:00 AM	0	0	0	0	0	0	78	8	0	86	2	0	0	0	2	32	162	0	0	194	282
08:15 AM	0	0	0	0	0	0	84	4	0	88	ן	0	2	0	3	29	175	0	0	204	295
08:30 AM	0	0	0	0	0	0	79	3	0	82	3	0	1	0	4	34	170	0	0	204	290
08:45 AM	0	0	0	0	0	0	88	2	0	90	6	0	3	0	9	22	159	0	0	181	280
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Grand Total	, 0	0	0	0	0	0	647	28	0	675	24	0	10	0	34	215	122 7	3	0	1445	21:54
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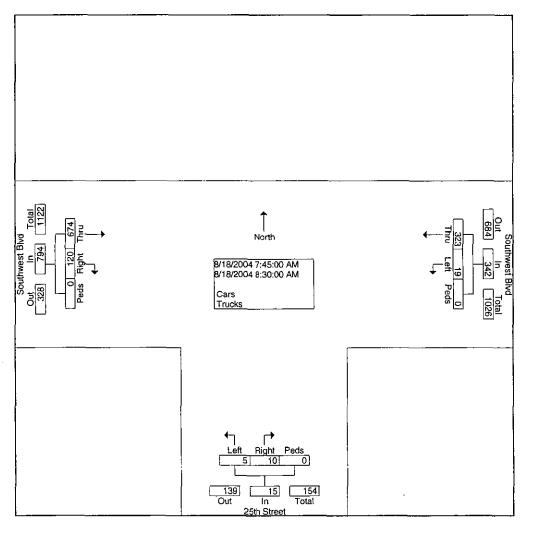


Isson Associates
Southwest Blvd & 25th Street
City of Kansas City, MO
ata Collector: CP

File Name: SW\_Blvd\_25th\_St\_AM

Site Code : 00000000 Start Date : 08/18/2004

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08:15 Volume Peak	0	0	0	0	0	0	84	4	0	88	١	0	2	0	3	29	175	0	0	204	295 0.975
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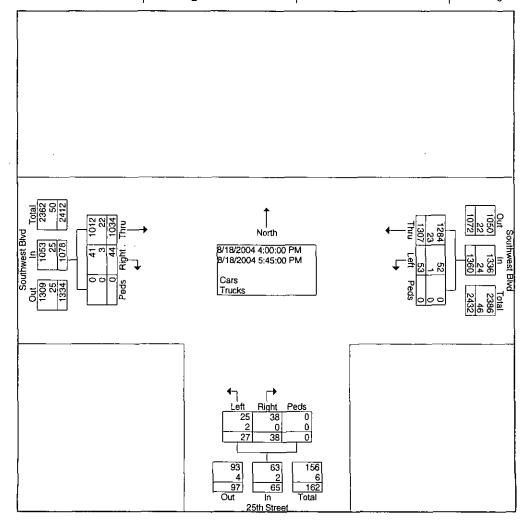
Olsson Associates Southwest Blvd & 25th Street City of Kansas City, MO Data Collector: CP

File Name: SW\_Blvd\_25th\_St\_PM: Site Code: 00000000 Start Date : 08/18/2004

Page No : 1

Groups Printed- Cars - Trucks

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Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		)
04:00 PM	0	0	0	0	0	0	151	5	0	156	4	0	3	0	7	7	152	0	0	159	322
04:15 PM	0	0	0	0	0	0	150	7	0	157	8	0	5	0	13	7	131	0	0	138	308
04:30 PM	0	0	0	0	0	0	166	7	0	173	6	0	6	0	12	8	147	0	0	155	340
04:45 PM	0	0	0	0	0	0	179	7	0	186	5	0	5	0	10	3	114	0	0	117	313
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05:00 PM	0	0	0	0	0	0	218	9	0	227	6	0	4	0	10	6	156	0	0	162	399
05:15 PM	0	0	0	0	0	0	209	11	0	220	5	0	1	0	6	5	139	0	0	144	370
05:30 PM	0	0	0	0	0	0	153	3	0	156	1	0	2	0	3	3	114	0	0	117	276
05:45 PM	0	0	0	0	0	0	81	4	0	85	3	0	1	0	4	5	81	0	0	86	175
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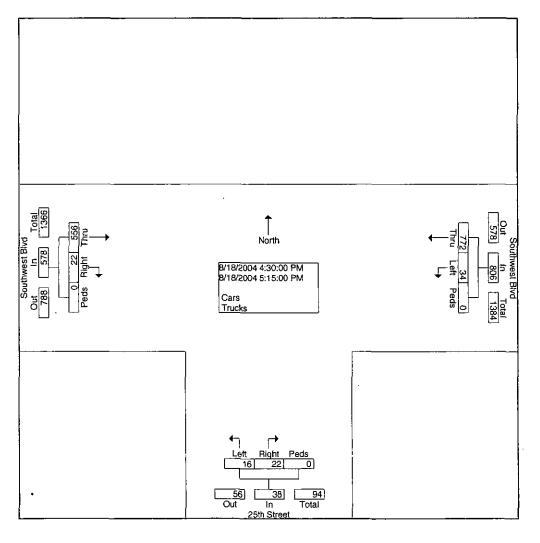


Olsson Associates Southwest Blvd & 25th Street City of Kansas City, MO Data Collector: CP

File Name: SW\_Blvd\_25th\_St\_PM

Site Code : 00000000 Start Date : 08/18/2004

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Olsson Associates Southwest Blvd & 26th Street

City of Kansas City, MO

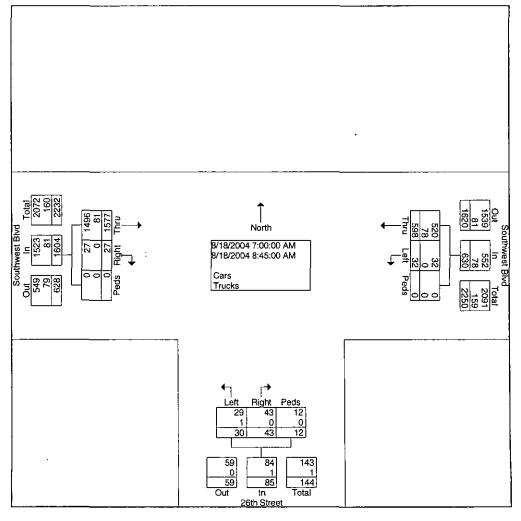
Data Collector: JC

File Name: SW\_Blvd\_26th\_St\_AM

Site Code : 00000000

Start Date : 08/18/2004

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Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
07:00 AM	0	0	0	0	0	0	71	10	0	81	7	0	3	5	15	1	158	0	0	159	255
07:15 AM	0	0	0	0	0	0	77	. 3	0	80	2	0	2	1	5	2	175	0	0	177	262
07:30 AM	0	0	0	0	0	0	82	3	0	85	4	0	2	1	7	5	215	0	0	220	312
07:45 AM	0	0	0	0	0	0	86	3	0	89	8	0	7	2	17	4	208	0	0	212	318
Total	0	0	0	0	0	0	316	19	0	335	21	0	14	9	44	12	756	0	0	768	1147
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08:00 AM	0	0	0	0	0	0	59	4	0	63	6	0	1	2	9	9	196	0	0	205	277
08:15 AM	0	0	0	0	0	0	67	4	0	71	7	0	6	1	14	3	235	0	0	238	323
08:30 AM	0	0	0	0	0	0	74	2	0	76	2	0	5	0	7	2	222	0	0	224	307
08:45 AM	0	0	0	0	0	0	82	3	0	85	7	0	4	0	11	1	168	0	0	169	265
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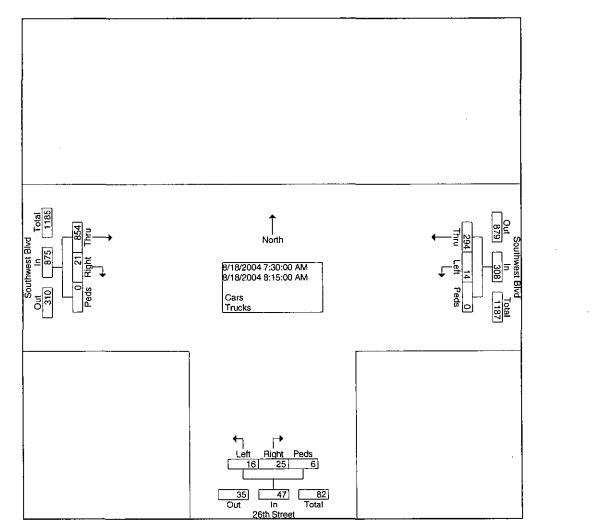
Olsson Associates Southwest Blvd & 26th Street City of Kansas City, MO

Data Collector: JC

 $\label{eq:file_sw_blvd_26th_St_AM} \textbf{File Name : SW\_Blvd\_26th\_St\_AM}$ 

Site Code : 00000000 Start Date : 08/18/2004

			6th Str					thwest				_	6th Str					thwest rom W			
Start	Rig	Thr	Left	Pe	App.	Rig	Thr	Left	Рe	App.	Rig	Thr	Left	Pe	App.	Rig	Thr	Left	Pe	App.	Int.
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08:15 Volume	0	0	0	0	0	0	67	4	0	71	7	0	6	1	14	3	235	0	0	238	323
Peak					•					'											0.952
Factor																					
High Int.	6:45:	00 AN	1			07:45	MA 6				07:45	MA i				08:15	5 AM				
Volume	0	0	0	0	0	0	86	3	0	89	8	0	7	2	17	3	235	0	0	238	
Peak										0.86					0.69					0.91	
Factor										5					1					9	



Olsson Associates

Southwest Blvd & 26th Street

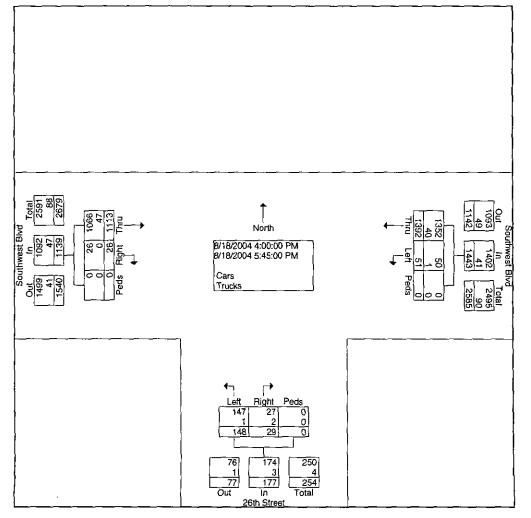
City of Kansas City, MO

Data Collector: JC

File Name: SW\_Blvd\_26th\_St\_PM Site Code: 00000000

Start Date : 08/18/2004

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Factor	1.0	1.0	1.0	1.0		1.0	1.0	0,1	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	δ	0	0	0	0 '	0	169	6	٥	175	)	0	15	0	16	Ô	168	O	0	841	359
04:15 PM	0	0	0	0	0	0	161	7	0	168	2	0	15	0	17	5	139	0	0	144	329
04:30 PM	0	0	0	0	0	0	188	15	0	203	3	0	19	0	22	5	160	0	0	165	390
04:45 PM	0_	0	0	0_	0	0	169	5_	0	174	6	_0	21	0	27	4	122	0	_0	126	_ 327
Total	0	0	0	0	0	Ō	687	33	0	720	12	0	70	0	82	14	589	0	0	603	1405
05:00 PM	0	0	0	0	0	0	204	9	0	213	6	0	24	0	30	3	152	0	0	155	398
05:15 PM	0	0	0	0	0	0	196	4	0	200	2	0	23	0	. 25	3	154	0	0	157	382
05;30 PM	0	0	0	0	0	0	190	2	0	192	3	0	18	0	21	3	121	0	0	124	337
05:45 PM	0	0	0	0	0	0	115	3	0	118	6	0	13	0	19	3	97	0	0	100	237
Total	0	0	0	0	0	0	705	18	0	723	17	0	78	0	95	12	524	0	0	536	1354
					•					•					•					'	
Grand	_	_	_	_			139		_		00	_	3.40		, , , ,	۸,	111	_	_	1300	0750
Total	0	0	0	0	0	0	2	51	0	1443	29	0	148	0	177	26	3	0	0	1139	2759
Apprch				۰.			96.	۸			16.	~ ~	83.		Ś		97.				
%	0.0	0.0	0.0	0.0		0.0	5	3.5	0.0	l	4	0.0	6	0.0		2.3	7	0.0	0.0		
·							50.			~~ a							40.	- ^			
Total %	0.0	0.0	0.0	0.0	0.0	0.0	5	1.8	0.0	52.3	1.1	0.0	5.4	0.0	6.4	0.9	3	0,0	0.0	41.3	
						1	-										-				r



Olsson Associates Southwest Blvd & 26th Street City of Kansas City, MO Data Collector: JC

05:00

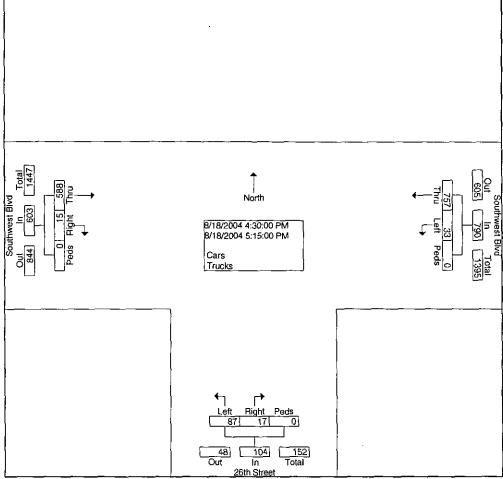
Volume Peak

Factor High Int. Volume Peak Factor Site Code : 00000000 Start Date : 08/18/2004

File Name: SW\_Blvd\_26th\_St\_PM

			6th Stre rom No					thwest					6th Str rom Sc					thwest			
Start	Rig	Thr	Left	Pe	App.	Rig	Thr	Left	Рe	App.	Rig	Thr	Left	Рe	App.	Rig	Thr	Left	Ре	App.	Int.
Time	ht	u	ren	ds	Total	ht	u	Len	ds	Total	ht]	u	Len	ds	Total	_ ht	u	Len	_ds	Total	Total
Peak Hour	From (	00:40	PM to	05:45	5 PM - P	eak 1	of 1														
Intersecti	04:30	DA A																			
on	04.50	7 [17]													j						}
Volume	0	0	0	0	0	0	757	33	0	790	17	0	87	0	104	15	588	0	0	603	1497
Percent	0.0	0.0	0.0	0.0		0.0	95.	4.2	0.0		16.	0.0	83. 7	0.0		2.5	97. 5	0.0	0.0		

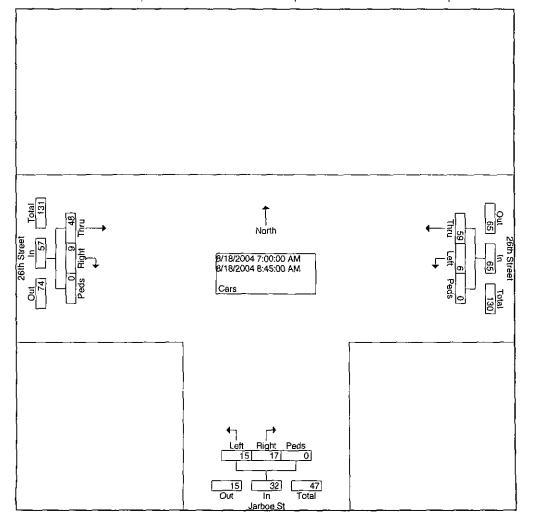
0.0	0.0	0,0	0.0		0.0	95. 8	4.2	0.0		16. 3	0.0	83. 7	0.0		2.5	97. 5	0.0	0.0		
0	0	0	0	0	0	204	9	0	213	6	0	24	0	30	3	152	0	0	155	398
										1				,					ŧ	0.940
3:45:0	00 PM				05:00	) PM				05:00	PM				04:30	PM				
0	0	0	0	0	0	204	9	0	213 0.92 7	6	0	24	0	30 0.86 7	5	160	0	0	165 0.91 4	
ſ			_		_												7			
ĺ																				



Olsson Associates Jarboe St & 26th St City of Kansas City Data Collector: SJ File Name: 26th\_St\_Jarboe\_AM

Site Code : 00000000 Start Date : 08/18/2004

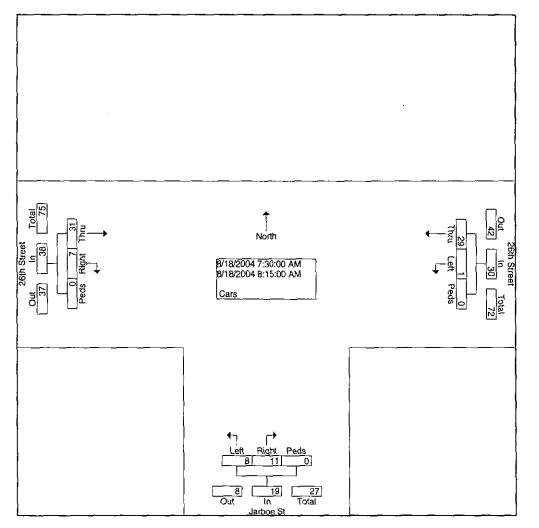
			-												3-			•			
										ups Prin	ted- Ca										_
			arboe					6th Str			1	_	Jarboe				2	6th Str	eet		]
		F	rom No	<u>rth</u>		L.,,	F	rom E	ast		<u> </u>	F	rom Sc	uth		<u> </u>	F	rom W	est		<u> </u>
Start	Rig	Thr	Left	Рe	App.	Rig	Thr	Left	Рe	App.	Rig	Thr	Left	Рe	App.	Rig	Thr	Left	Рe	Арр.	Int.
Time	<u>h</u> t	น	Cell	_ ds	Total	<u>ht</u>	_ u	2611	_ ds	Total	<u>ht</u> ]	u	ren	ds	Totai	ht)	_u	Len	ds	Total	Total
Factor	1.0	0.[	1.0	1.0		1.0	1.0	1.0	1.0		1.0	0.1	1.0	1.0		1.0	0.1	1.0	1.0		
07:00 AM	_ 0	_ 0_	0	0	0	0	8	0	0	8	0	0	3	0	3	2	10	0	0	12	23
07:15 AM	0	0	0	0	0	0	7	2	0	9	2	0	1	0	3	0	2	0	0	2	14
07:30 AM	Ð	0	0	0	0	0	4	0	0	4	2	0	7	0	3	2	9	0	0	11	18
07;45 AM	0	0	0	0	0	0	7	0	Q	7	3	0	2	0	5	3	4	0	0	7	19
Total	0	0	0	0	0	0	26	2	0	28	7	0	7	0	14	7	25	0	0.	32	74
					•																
MA 00:80	0	0	0	0	0	0	10	0	0	10	4	0	3	0	7	0	10	0	0	10	27
08:15 AM	0	0	0	0	0	0	8	1	0	9	2	0	2	0	4	2	8	0	0	10	23
08:30 AM	0	0	0	0	0	0	6	3	0	9	2	0	2	0	4	0	2	0	0	2	15
08:45 AM	0	0	Ð	O	0	0	9	0	O	9	2	0	1	0	3	Đ	3	O	0	3 \	15
Totai	0	0	0	0	0	0	33	4		37	10	0	8	0	18	2	23		0	25	80
															,						
Grand	_	^	_	_	اء	^	50	,	_	ا بر ا	1	_	1.5	_	20	_	40	^	^		1.54
Total	U	0	0	O	0	0	59	6	0	65 (	17	0	15	0	32	9	48	0	0	57	154
Apprch	0.0	~ ^	^^			0.0	90.	0.0	0.0		53.		46.	0.0		15.	84.	~ ~	^ ^		
' %	0.0	0.0	0.0	0.0		0,0	8	9.2	0.0	Ì	1	0.0	9	0.0		8	2	0.0	0.0	j	ĺ
7-1-10/	00	0.0	0.0	0.0		0.0	38.		0.0	40.0	11.	~ ~	^ <b>7</b>	0.0	00.0	- 0	31.			07.0	
Total %	0.0	0.0	0.0	0.0	0.0	0.0	3	3.9	0.0	42.2	0	0.0	9.7	0.0	20.8	5.8	2	0.0	0.0	37.0	1
						•	_				_						_			,	4



Olsson Associates Jarboe St & 26th St City of Kansas City Data Collector: SJ File Name: 26th\_St\_Jarboe\_AM

Site Code : 00000000 Start Date : 08/18/2004

			arboe om No					6th Stre					larboe rom So					6th Str			
Start	Rig	Thr	Left	Pe	App.	Rig	Thr	Left	Pe	App.	Rig	Thr	Left	Pe	App.	Rig	Thr	Left	Pe	Арр.	Int.
Time	ht]	<u> </u>		ds_	Total	<u>h</u> t	u		ds_	Total	<u>_ht</u> _	u		_ds	<u>Total</u>	<u>ht  </u>	tr_		ds_	Total	Total
Peak Hour	From (	37:00	AM to	08:40	- MA c	Peak 1	of														
Intersecti on	07:30	MA														! 					
Volume	0	0	0	0	Ö	0	29	1	0	30	11	0	8	0	19	7,	31	0	0	38	87
Percent	0.0	0.0	0.0	0.0		0.0	96. 7	3.3	0.0		57. 9	0.0	42. 1	0.0		18. <i>4</i>	81. 6	0.0	0.0		
08:00	0	0	0	0	o	0	10	0	0	10	4	0	3	0	7	0	10	0	0	10	27
Volume Peak				•	Į										ļ					Į.	0.806
Factor																					
High Int.		MA 00	ĺ			08:00					08:00	AM			J	07:30	ΑM				
Volume	0	0	0	0	0	0	10	0	0	10	4	0	3	0	7	2	9	0	0	11	
Peak										0.75					0.67					0.86	
Factor					ļ					0					9					4	

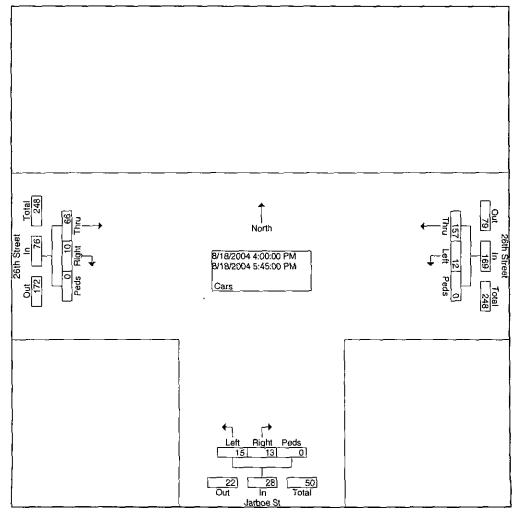


Olsson Associates Jarboe St & 26th St City of Kansas City Data Collector: SJ File Name: 26th\_St\_Jarboe\_PM

Site Code : 00000000 Start Date : 08/18/2004

_	Groups	Printed-	Cars
th Stree	ot .		

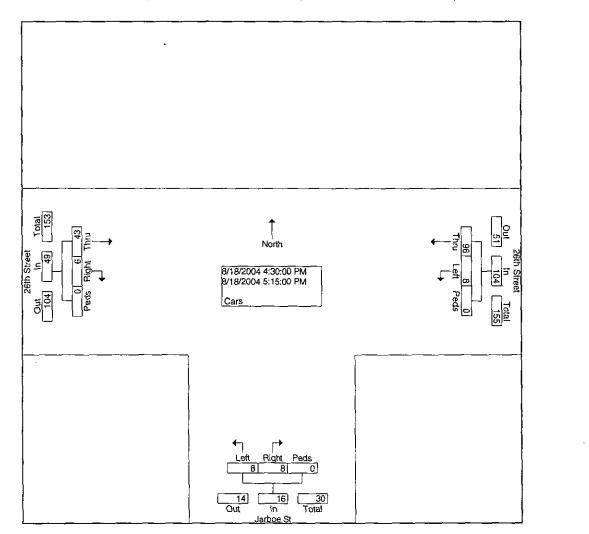
1				larboe					6th Str					larboe		1			6th Str			
Į			F	rom No					rom Ea				F,	rom So	uth		Ĺ <u> </u>	F	tom M	est		
١	Start	Rig	Thr '	Left	Pe	App.	Rig	Thr	Left	Pe	App.	Rig	Jµr	Left	Pe	App.	Rig	Thr	Left	Pe	App.	Int.
Į	Time	<u>h</u> t	u_		ds	Total	_ht	u		_ ds	Total	_ ht	U		ds	Total	<u>h</u> t	u		<u>ds</u>	<u>Total</u>	Total
	Factor	1.0	_ 1.0_	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	0.1	1.0		1.0	1.0	1.0	1.0		
	04:00 PM	0	0	0	0	0 (	0	14	0	0	14	2	0	3	0	5	Q	7	0	0	7	26
	04:15 PM	0	0	0	0	0	0	12	0	0	12	1	0	}	0	2	2	6	0	0	8	22
	04:30 PM	0	0	0	0	0	0	19	2	0	21	2	0	2	0	4	2	16	0	0	18	43
	04:45 PM	0	0	0	0	0	٥	24	3	0	27	4	0	2	0	6	2	9	0	0	11	44
•	Total	0		0	0	0	0	69	5	0	74	9	0	8	0	17	6	38	0	0	44	135
											'					'						
	05:00 PM	. 0	0	0	0	0	0	29	Ì	0	30	0	0	2	0	2	1	10	0	0	11	43
	05:15 PM	Q	0	0	0	0 (	۵	24	2	0	26	2	0	2	0	4	j	8	0	0	9	39
	05:30 PM	0	0	0	0	0	0	18	3	0	21	1	0	2	0	3	0	4	0	0	4	28
	05:45 PM	0	0	0	0	0	0	17	}	0	18	3	0	1	0	2	2	6	0	0	8	28
	Total	0	0	0	0	0	0	88	7	0	95	4	0	7	0	11	4	28	0	0	32	138
						•										,						
	Grand	^	^	٥	^	اہ	^	167	10	^	140	10	_	1.5	0	00	10	,,	0	_	ا بہ	070
	Total	0	0	O	0	0	0	157	12	0	169	13	0	15	0	28	10	66	0	0	76	273
	Apprch	^ ~						92.	٦,	~ ~	[	46.		53.	~ ~	ļ	13.	86.			Į	
	%	0.0	0.0	0.0	0.0		0.0	9	7.1	0.0		4	0.0	6	0.0		2	8	0.0	0.0		
	~	0.0	^ ^				۰.	57.		^ ^		4.5				10.0		24.		~ ~	22.5	
	Total %	0.0	0.0	0.0	0.0	0.0	0.0	5	4.4	0.0	61.9	4.8	0.0	5.5	0.0	10.3	3.7	2	0.0	0.0	27.8	
						,										,					'	



Olsson Associates Jarboe St & 26th St City of Kansas City Data Collector: SJ File Name: 26th\_St\_Jarboe\_PM

Site Code : 00000000 Start Date : 08/18/2004

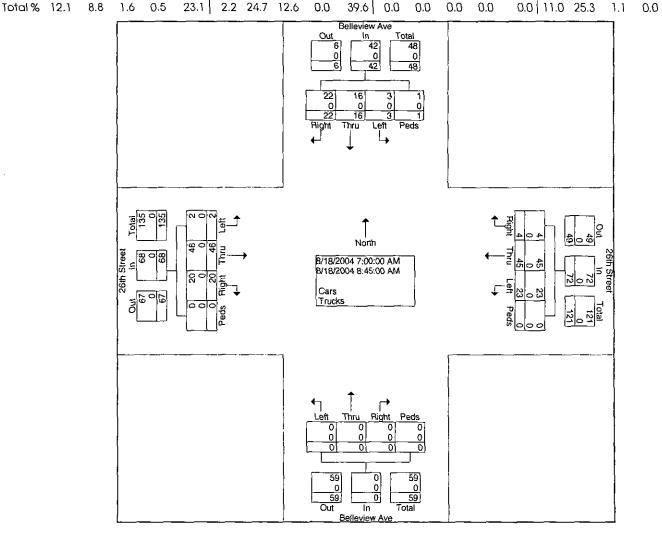
			arboe					6th Str	-				Jarboe rom So					6th Str			
Start Time	Rig ht	Thr u	Left	Pe ds	App. Total	Rig ht	Thr	Left	Pe ds	App. Total	Rig ht	Thr u	Left	Pe ds	App. Total	Rig ht	Thr u	Left	Pe ds	App. Total	Int. Total
Peak Hour	From (	4:00	PM to	05:45	PM - F	eak 1	of 1														
Intersecti on	04:30	PM			İ					i											
Volume	0	0	0	0	0	0	96	8	Q	104	8	0	8	0	16	6	43	0	0	49	169
Percent	0.0	0.0	0.0	0.0		0.0	92. 3	7.7	0.0	İ	50. 0	0.0	50. 0	0.0		12. 2	87. 8	0.0	0.0		
04:45 Volume Peak	0	0	0	0	0	0	24	3	0	27	4	0	2	0	6	2	9	0	0	11 ,	44 0.960
Factor High Int. Volume Peak Factor	3:45:0 0	00 PM 0	0	0	0	05:00 0	PM 29	1	Đ	30 0.86 7	04:48 4	PM 0	2	0	6 0.66 7	04:30 2	PM 16	0	0	18 0.68   1	



elsson Associates elleview Ave & 26th St Sity of Kansas City eata Collector: SJ File Name: 26th\_St\_Belleview\_AM

Site Code : 00000000 Start Date : 08/18/2004

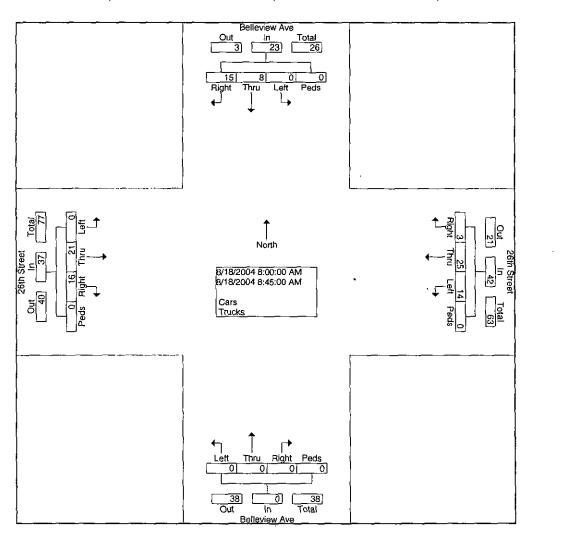
								G	iroups f	Printed- (	Ca <u>rs - 1</u>	Trucks							_		
			leview		_			6th Stre		-	- <b>-</b>		lleview		i			6th Stre			
			rom No					rom Ea	$\overline{}$				rom So				<u>-</u> _	rom W	est		
tart Time	Rig hi	Thru	Left	Ped   s	App. Total	Rig ht	Thru	Leff	Ped s	App. Total	Rig   ht	Thru	Left	Ped s	App. Total	Rig ht	Thru ,	Left	Ped s	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
07:00 AM	2	0	1	1	4	0	6	2	0	8	0	0	0	0	0	0	10	0	0	10	22
07:15 AM	3	1	1	0	5	0	6	2	0	8	0	0	0	0	0	2	1	0	0	3	16
07:30 AM	1	3	0	0	4	1	2	3	0	6	0	0	0	Q	0	. 1	8	2	0	11	21
07:45 AM	1_	4	<u> </u>	0	6	0	6	2	0_	8	0	0	0	0	0_		6_	0	0_	7	21_
Total	7	8	3	1	19	1	20	9	0	30 (	0	0	0	0	0	4	25	2	0	31 (	80
08:00 AM	2	3	0	0	5	0	9	3	0	10	0	0	0	0	0	8	7	0	0	15	30
08:15 AM	3	3	0	0	6	2	6	4	0	12	0	0	0	0	o	4	7	0	0	11)	29
08:30 AM	5	0	0	0	5	1	5	3	0	9	0	0	0	0	0	1	5	0	0	6	20
08:45 AM	5	2	0	0	. 7	0	. 5	6	0_	11	0	0	0	0	0	3	2	0	۵	5	23_
Total	15	8	0	0	23	. 3	25	14	C	42	_ 0	G	0	_ 0	0	16	21	0	Ď	37	102
Grand Total	22	16	3	1	42	4	45	23	0	72	0	0	0	0	0	20	46	2	0	68	. 182
pprch % Total %	52.4 12.1	38.1 8.8	7.1 1.6	2.4 0.5	23.1	5.6 2.2	62.5 24.7	31.9 12.6	0.0 <i>0.0</i>	39.6	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	29.4 11.0	67.6 25.3	2.9 1.1	0.0	37.4	



●Isson Associates elleview Ave & 26th St Jity of Kansas City eata Collector: SJ File Name: 26th\_St\_Belleview\_AM

Site Code : 00000000 Start Date : 08/18/2004

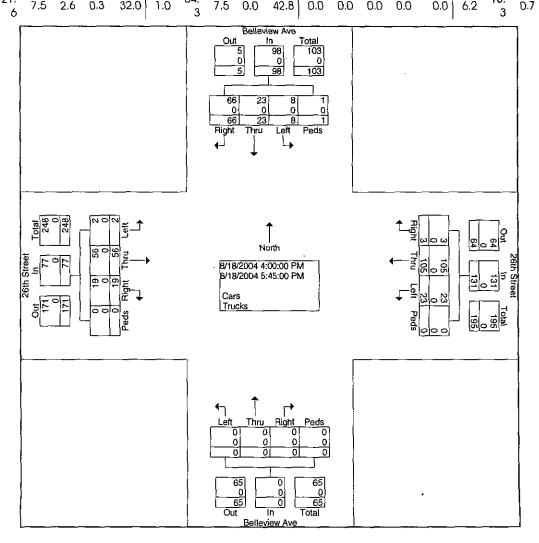
<del>-</del>	·			A				ON ON					V i	A				CAP CA			
			ileview rom No					6th Str	-				lleview rom So					6th Stre rom We		ľ	
	Dia	·	TOTAL INC	Ped	A	Dia	, <del></del>	10111 E		A	n: a		0111 30			Dia	<u>`</u>	JOIN W		A.a.a	In t
tart Time	Rig ht	Thru	Left	s	App. Total	Rìg ht	Thru	Left	Ped   _ s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Rig ht	Thru	Left	Ped s	App. Total	Int. Total
Peak Hour F	rom 0	7:00 A	M to C	)8:45 A	M - Pe	ak 1 o	f 1										_				
_Intersecti on	08:00	MA								İ											
Volume	15	8	0	0	23	3	25	14	0	42	0	0	0	0	0	16	21	0	0	37	102
Percent	65.2	34.8	0.0	0.0	ĺ	7.1	59.5	33.3	0.0		0.0	0.0	0.0	0.0		43.2	56.8	0.0	0.0	İ	
08:00 Volume	2	3	0	0	5	0	9	1	0	10	0	0	0	0	0	8	7	0	0	15	30
Peak										'					Í					1	0.850
Factor High Int.	08:45	5 AM				08:15	AM				6:45:0	00 AM				08:00	AM				
Volunie	5	2	0	Q	7	2	6	4	· 0.	. 12.	a	0	0	Û,	0	8	7	0	0	15	
Peak Factor					0.821	ł				0.875					ĺ					0.617	



Olsson Associates Belleview Ave & 26th St City of Kansas City Data Collector: SJ File Name :  $26th\_St\_Belleview\_PM$ 

Site Code : 00000000 Start Date : 08/18/2004

		Groups Printed- Cars - Trucks																			
			lleview					6th Str					lleview					6th Str			
<u> </u>			rom No					rom Ea					om So					rom W			
Start	Rig	Thr	Left	Pe	App.	Rig	Thr	Left	Pe	App.	Rig	Thr	Left	Pe	App.	Rig	Jµt	Left	Pe	App.	int.
Time	<u>h</u> t	u		ds	Total	ht	<u>u</u>		ds	Total	ht	u		ds	Total	ht	u		ds	Total	Total
<u>Factor</u>	1.0	1.0	1.0	1.0		1.0	<u> </u>	1.0	1.0	<u> </u>	1.0	<u> 1.0 j</u>	_1.0]	1.0		1.0	0.0	<u>_1.0  </u>	1.0		
04:00 PM	5	2	1	}	9	0	9	0	0	9	0	0	0	0	0	2	6	0	0	8	26
04:15 PM	5	3	0	0	8	1	6	4	0	וו וו	0	0	0	0	0	]	5	0	0	6	25
04:30 PM	8	2	. 0	0	10	1	11	6	0	18	0	0	0	0	0	4	15	0	0	19	47
04:45 PM	8	3	_0	_0	]]	0	22_	4_	0	26	0	0	0	0	0	3	7	_ 0	_0	10_	47
Total	26	10	1		38	2	48	14	0	64	0	0	0	0	0	10	33	0	0	43	145
05:00 PM	11	4	3	0	18	1	19	5	0	25	0	0	0	0	0	3	10	0	0	13	56
05:15 PM	10	4	3	0	17	0	17	0	0	17	0	0	0	0	0	3	4	1	0	8	42
05:30 PM	13	2	0	0	15	0	9	4	0	13	0	0	0	0	٥	1	4	0	0	5	33
05:45 PM	6	3	1	0	10	0	12	0	0	12	0	0	_ 0	_ 0	0	2	5	_1	0	8	30
· Total	40	13	7	0	60	. 1	57	9	0	67	0	0	0	0	0	. 9	23	2	0	34	161
					'																
Grand		00		,	00	_	105	-00	_	,,,	_	^	_	^	ام		٠, ٠,	0	_	1	007
Total	66	23	8	ł	98	3	105	23	0	131	0	0	0	0	0	19	56	2	0	77	306
Apprch	67.	23.					80.	17.			~ ~	~ ~	0.5		i	24.	72.		^ ^		
%	3	5	8.2	0.1		2.3	2	6	0.0		0.0	0.0	0.0	0.0		7	7	2.6	0.0		
	21.	~ -			20.0		34.										18.				
Total %	6	7.5	2.6	0.3	32.0	1.0	3	7.5	0.0	42.8	0.0	0.0	0.0	0.0	0.0	6.2	3	0.7	0.0	25.2	

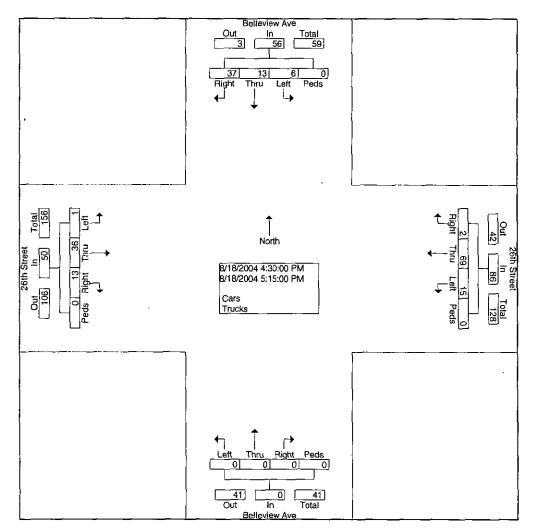


Olsson Associates Belleview Ave & 26th St City of Kansas City Data Collector: SJ

File Name: 26th\_St\_Belleview\_PM.

Site Code : 00000000 Start Date : 08/18/2004

			leview					6th Stre					lleview rom So					6th Str			
Start Time	Rig ht	Thr u	Left	Pe ds	App. Total	Rig ht	Thr	Left	Pe i	App. Total	Rig ht	Thr	Left	Pe ds	App. Total	Rig ht	Thr	Left	Pe ds	App. Total	Int. Total
Peak Hour	From (		PM to			eak 1														10101	. 19.56
Intersecti on	04:30	PM			·	<b>}</b>															
Volume	37	13	6	0	56	2	69	15	0	86	0	0	0	0	0	13	36	7	0	50	192
Percent	66. 1	23. 2	10. 7	0.0		2.3	80. 2	17. 4	0.0		0.0	0.0	0.0	0.0		26. 0	72. 0	2.0	0.0		
05:00 Volume	11	4	3	0	18	ī	19	5	0	25	0	0	0	0	0	3	10	0	0	13	56
Peak Factor										1					1					,	D.857
High Int.	05:00	PM			1	04:45	PM			i	3:45:0	00,PN	1		, ,	04:30	Mq				
Volume Peak Factor	!	4	3	. 0	18 0.77 8	0	22	4	0	26 0.82 7	0	0	0	0	0	4	15	0	0	19 0.65 8	

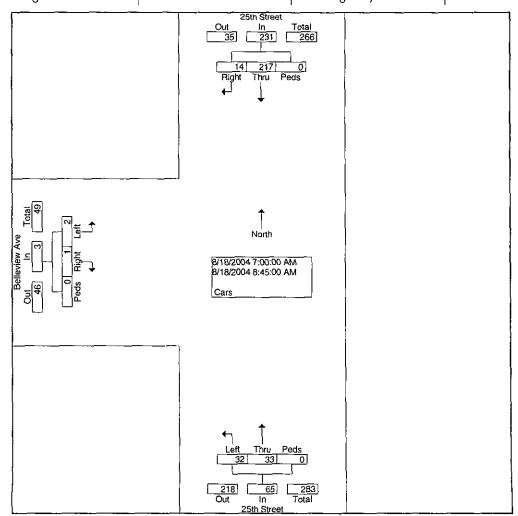


Olsson Associates 25th Street & Belleview Ave City of Kansas City, MO Data Collector: DF

Site Code : 00000000 Start Date : 08/18/2004

File Name: 25th\_St\_Belleview\_AM

									Gro	u <u>ps</u> Prin	ted- Ca	ırs		_				_			_
		2	5th Stre	et		_	Bel	leview	Ave			2	5th Str	eet			Ве	lleview	Ave		]
		Fi	ro <u>m No</u>	irth			F	rom Ea	ast			F	rom So	uth		L	F	rom W	est		
Start	Rig	Thr	Left	Ре	Арр.	Rig	Thr	Left	Pe	Арр.	Rig	Thr	Left	Pe	App.	Rig	Thr	Left	Pe	App.	Int.
Time	ht	u	ren	ds	Total	ht	u	Len	<u>ds</u>	Total	ht	u	reii	ds	Total	ht	u	rail	ds	Total	Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		_1.0_	1.0	1.0	1.0		
07:00 AM	0	24	0	_ 0	24	0	Ō	0	0	_ 0	0	4	2	0	6	Ō	0	0	0	0	30
07:15 AM	3	20	0	0	23	0	0	0	0	0	0	5	2	0	7	0	0	1	0	1	31
07:30 AM	2	29	0	0	31	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	35
07:45 AM	<u> </u>	29	0	0	30	0	0_	0	0	0	0	4	10	0_	14	0_	0	0_	0	0	44
Total	6	102	0	0	108	0	0	0	0	0	0	16	15	0	31	0	0	1	0	1	140
										_											
MA 00:80	3	35	0	D	38	0	0	0	0	0	0	3	3	D	6	1	0	0	0	ָן ו	45
08:15 AM	1	32	0	0	33	0	0	0	0	0	0	2	4	0	6	0	0	0	0	0	39
08:30 AM	2	23	0	0	25	0	0	0	0	0	0	4	3	0	7	0	0	0	0	0	32
08:45 AM	2	25	0	0	27	_0_	0_	0_	0_	0	0	8	7	0_	15	0_	0	<u> </u>	0	1	43
Total	8	115	0	0	123	0	0	0	0	0 [	0	17	17	0	34	1	0	]	0	2	159
Grand	14	217	0	0	231	Ω	0	0	0	٥	0	33	32	0	65	1	0	2	0	3	299
Total	14	217	U	υ,	201		U	U	U	١		50	ŞΖ	U	00	'	U	2	U	J	277
Apprch	6.1	93.	0.0	0.0		0.0	0.0	0.0	0.0		0.0	50.	49.	0.0		33.	0.0	66.	0.0		
%	U, I	9	0.0	0.0		0.0	0.0	0.0	0.0		0.0	8	2	U.U	ļ	3	0.0	7	0.0		
Total %	4.7	72.	0.0	0.0	77.3	0.0	0.0	0.0	0.0	0.0	0.0	11.	10.	0.0	21.7	0.3	0.0	0.7	0.0	1.0	
10101 %	4./	6	U.U	U,U	//.3	0.0	0.0	0.0	U.U	0.0	0.0	0	7	U.U	41./	0.3	0.0	U./	0.0	1.0	



Olsson Associates

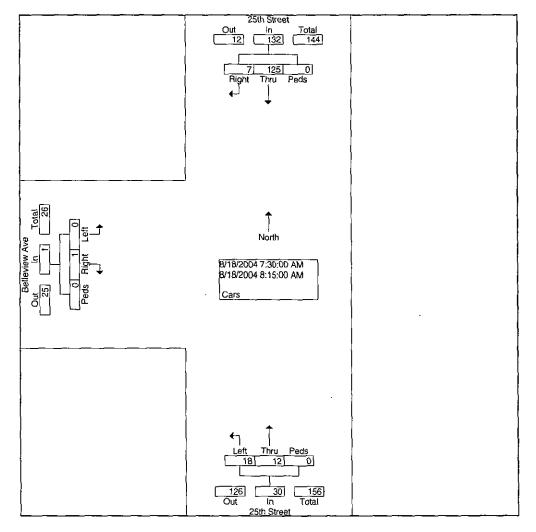
25th Street & Belleview Ave City of Kansas City, MO

Data Collector: DF

File Name: 25th\_St\_Belleview\_AM.

Site Code : 00000000 Start Date : 08/18/2004

			5th Stre		-			leview rom Ea					5th Str					lleview rom W			}
Start	Rig ht	Thr	Left	Pe	App. Total	Rig ht	Thr	Left	Pe ds	App.	Rig ht	Thr		Pe ds	App.	Rig ht	Thr	Left	Pe	App.	Int.
Time Peak Hour	<u> </u>	u_ 07:00	AM to	ds   08:45			u ] l of l		us	Total		u		us (	<u>Total</u>		u]		_ds	Total	Total
Intersecti on	07:30	MA			!										j						
Volume	7	125	0	0	132	0	0	0	0	0	0	12	18	0	30	1	0	0	0	1	163
Percent	5.3	94. 7	0.0	0.0		0.0	0.0	0.0	0.0		0.0	40. 0	60.	0.0		100 .0	0.0	0.0	0.0		
08:00 Volume Peak	3	35	0	0	38	0	0	0	0	0	0	3	3	0	6	1	0	0	0	1	45 0.906
Factor High Int.	08:00	AM			;	6:45:0	AA OC	1			07:45	AM				08:00	AM				
Volume Peak Factor	3	35	0	0	38 0.86 8	0	0	0	0	0	0	4	10	0	0.53 6	1	0	0	0	0.25 0.7	,



Olsson Associates

25th Street & Belleview Ave

City of Kansas City, MO

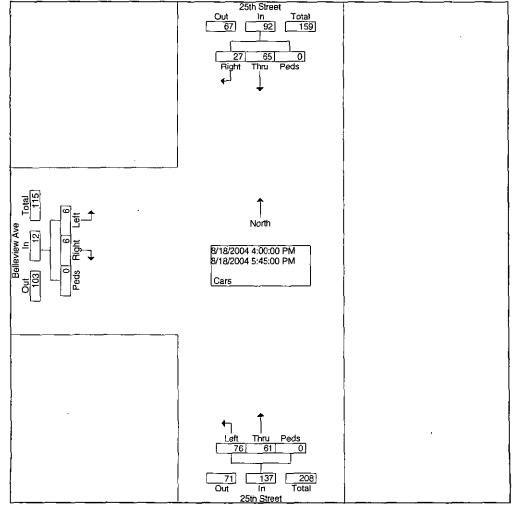
Data Collector: DF

File Name: 25th\_St\_Belleview\_PM

Site Code : 00000000

Start Date : 08/18/2004

									Grou	ips Prin	ted- C	Cars									_
		25	oth Stre	eet			Bell	eview	Ave			25	5th Str	eet			Bell	eview	/ Ave		İ
1		Fre	om No	orth			F	rom E	tac			Fre	om Sa	uth		ļ	Fr	om W	'est		
Start	Rig	Thr	1 - 4	Pe	Арр.	Rig	Thr	1 -44	Pe	Арр.	Rig	Thr	1.4	Pe	Арр.	Rig	Thr ,	1 -41	Pe	App.	Int.
Time	ht	u	Left	ds	Total	ht	u	Leff	ds	Total	ht	u	Left	ds	Total	ht	u	Left	ds i	Total	Total
Factor	1.0	1.0	1.0	1.0		1,0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1,0	7.0	1.0	1.0		
04:00 PM	2	12	0	0	14	0	0	0		0	0	5	10	0	15	0	0	0	0	0	29
04:15 PM	3	11	0	0	14	0	0	0	0	o'	0	11	8	0	19	2	0	}	0	3	36
04:30 PM	6	8	0	0	14	0	0	0	0	0	0	11	11	0	22	1	0	0	0	Ţ	37
04:45 PM	1	8_	0_	0_	9	0	0	0	٥	0	0	10	13	0	23	1	Ó	2	0	3	35
Total	12	39	_0	0	51	0	0	0	0	0	0	37	42	0	79	4	0	3	0	7	137
05:00 PM	5	8	O	0	13	0	0	0	0	0	0	7	10	0	17	2	0	3	0	5	35
05:15 PM	5	8	0	0	13	0	0	0	0	0	0	6	9	0	15	0	0	0	0	0	28
05:30 PM	3	4	0	0	7	٥	0	0	0	0	0	6	8	0	14	0	0	0	0	0	21
05:45 PM	2_	6	0	0	8	0	0_	0	0	0	0_	5	7	0	12	0	0	0	0	_ 0	20_
Total	15	26	Ð	0	41	0	0	0	0	0	Ð	24	34	0	58	2	0	3	0	5	104
Grand	27	65	0	0	92	0	0	0	0	0	0	61	76	0	137	6	Ω	4	0	12	241
Total	21	00	U	U	92	U	U	U	U	ا	U	01	70	U	137	0	U	6	U	12	24[
Apprch	29.	70.	0.0	0.0		0.0	0.0	0.0	0.0		0.0	44.	55.	0.0		50.	0.0	50.	0.0	l	
%	3	7	0.0	0.0		U.U	U.U	0.0	0.0		0,0	5	5	U.U		0	0.0	0	0.0		
Total %	11,	27.	0.0	0.0	38.2	0.0	0.0	0.0	0.0	0.0	0.0	25.	31.	0.0	56.8	2.5	0.0	2.5	0.0	5.0	
1010176	2	0	u.u	U.U	JQ.Z	0.0	U.U	U,U	u.u	0,0	U.U	3	5	U,U	30.0	2,3	U.U	2.0	U.U	5.0	
	-																	-7		-	

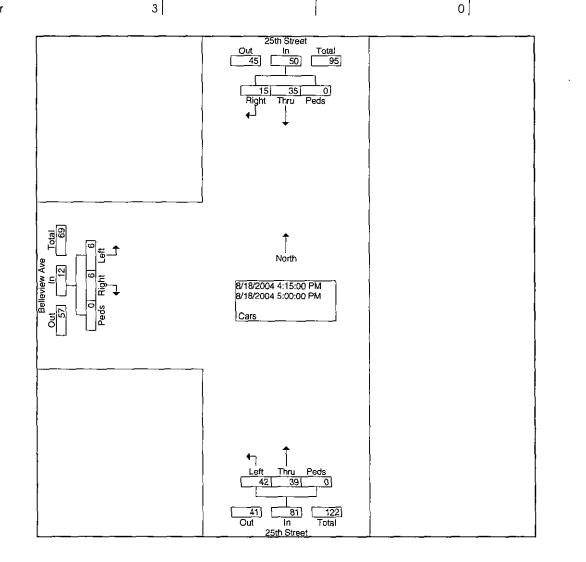


Olsson Associates 25th Street & Belleview Ave City of Kansas City, MO Data Collector: DF

File Name: 25th\_St\_Belleview\_PM Site Code: 00000000

Start Date : 08/18/2004

			oth Str	-			_	eview					oth Stre					eview			
ļ— <u> </u>			או חוכ				-	om E					om So					om W			<u> </u>
Start	Rig	Thr	Left	Pe	App.	Rig	Thr	Left	Pe :	App.	Rig	Thr	Left	Pe	App.	Rig	Thr	Left	Pe	App.	int.
Time	ht	u	reli	ds	Total	ht	u]	Len	ds	Total	ht	u j	ren	ds	Total	ht	u	ren l	ds	Total i	Total
Peak Hour	From (	00:40	PM to	05:45	PM - F	eak 1	of 1	_													
Intersecti	04:15	PM																			
on	-										i					i					
Volume	15	35	0	0	50	0	0	0	0	0	0	39	42	0	81	6	0	6	0	12	143
Percent	30. O	70. 0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	48. 1	51. 9	0.0		50. 0	0.0	50. 0	0.0		
04:30	6	8	0	0	14	0	0	0	0	0	0	11	11	0	22	1	0	0	0	7	37
Volume															l	1				J	1
Peak										1	Ì					l					0.966
Factor																					
High int.	04; 15	PM			1	3:45:0	00 PM	1		I	04:45	PM				05:00	PM				
Volume	3	וו	0	0	14	0	0	0	Ω	0	Ó	10	13	Ο	23	2	0	3	0	5	'
Peak	_		_	_	0.89		-	-	_	-	_			-	0.88	_	_	-	_	0.60	
					3																
Factor					٥ ا										0					0]	



# Nu-Metrics Traffic Analyzer Study Computer Generated Summary Report City: Kansas City

Street: Southwest Blvd

A study of vehicle traffic was conducted with HI-STAR unit number 6432. The study was done in the NB lane on Southwest Blvd in Kansas City, MO in Jackson county. The study began on 08/30/2004 at 04:30 PM and concluded on 08/31/2004 at 04:30 PM, lasting a total of 24 hours. Data was recorded in 15 minute time periods. The total recorded volume of traffic showed 3,535 vehicles passed through the location with a peak volume of 135 on 08/31/2004 at 09:00 AM and a minimum volume of 0 on 08/31/2004 at 02:00 AM. The AADT Count for this study was 3,535.

#### SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

							Chart	1						
0	10	15	20	25	30	35	40	45	50	55	60	65	70	75
to	to	to	to	to	to	to	to	to	to	to	to	to	to	>
9	14	19_	24	29	34	39	44	49	_ 54	59	64	69	74	
0	20	59	113	332	1037	1132	600	158	53	14	4	4	3	4

At least half of the vehicles were traveling in the 35 - 39 mph range or a lower speed. The average speed for all classified vehicles was 36 mph with 55.8 percent exceeding the posted speed of 35 mph. The HI-STAR found 0.82 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 35 mph and the 85th percentile was 42.58 mph.

#### **CLASSIFICATION**

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

		-	_	Cha	art 2			
ĺ	0	21	28	40	50	60	70	80
	to 20	to 27	to 39	to 49	to 59	to 69	to 79	>
i	3350	96	62	15	9	0	1	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 3,446 which represents 97.50 percent of the total classified vehicles. The number of Small Trucks in the study was 62 which represents 1.80 percent of the total classified vehicles. The number of Trucks/Buses in the study was 15 which represents 0.40 percent of the total classified vehicles. The number of Tractor Trailers in the study was 10 which represents 0.30 percent of the total classified vehicles.

#### **HEADWAY**

During the peak time period, on 08/31/2004 at 09:00 AM the average headway between the vehicles was 6.62 seconds. The slowest traffic period was on 08/31/2004 at 02:00 AM. During this slowest period, the average headway was 900.0 seconds.

#### **WEATHER**

The roadway surface temperature over the period of the study varied between 80 and 115 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

				<del></del>
HI-Star ID: 6432	Begin:	08/30/2004 04:30	D PM End: 08/31/	/2004 04:30 PM
Street: Southwest Blvd	Lane:		Hours: 24:0	00
State: MO	Oper:	SJ	Period: 15	
City: Kansas City	Posted	l: 35	Raw Count:	3535
County: Jackson	AADT	Factor: 1	AADT Coun	t: 3535
NC97				
Date & Time Range	Count	Avg Speed	Temp	Wet/Dry
08/30/2004				
[04:30 PM-04:45 PM]	43	37 mpl	h 115 F	Dry
[04:45 PM-05:00 PM]	50	39 mpl		Dry
[05:00 PM-05:15 PM]	60	38 mpl		Dry
[05:15 PM-05:30 PM]	60	38 mpl		Dry
[05:30 PM-05:45 PM]	47	36 mpl		Dry
[05:45 PM-06:00 PM]	46	38 mpi	h 111 F	Dry
[06:00 PM-06:15 PM]	44	39 mpl	h 107 F	Dry
[06:15 PM-06:30 PM]	31	37 mpl	h 107 F	Dry
[06:30 PM-06:45 PM]	45	39 mpl	h 105 F	Dry
[06:45 PM-07:00 PM]	27	36 mpl	h 103 F	Dry
[07:00 PM-07:15 PM]	28	38 mpl	h 101 F	Dry
[07:15 PM-07:30 PM]	23	35 mpl	h 99 F	Dry
[07:30 PM-07:45 PM]	20	38 mpl	h 97 F	Dry
[07:45 PM-08:00 PM]	22	38 mpl	h 97 F	Dry
[08:00 PM-08:15 PM]	23	38 mpl	h 97 F	Dry
[08:15 PM-08:30 PM]	21	36 mpl	h 95 F	Dry
[08:30 PM-08:45 PM]	19	36 mpl	h 95 F	Dry
[08:45 PM-09:00 PM]	23	35 mpl	h 95 F	Dry
[09:00 PM-09:15 PM]	12	35 mpl	h 93 F	Dry
[09:15 PM-09:30 PM]	20	37 mpt	h 91 F	Dry
[09:30 PM-09:45 PM]	9	40 mpl	h 91 F	Dry
[09:45 PM-10:00 PM]	15	39 mpl	h 91 F	Dry
[10:00 PM-10:15 PM]	8	34 mpl		Dry
[10:15 PM-10:30 PM]	7	33 mpl	h 89 F	Dry
[10:30 PM-10:45 PM]	5	34 mpl	h 89 F	Dry
[10:45 PM-11:00 PM]	9	35 mpl	h 89 F	Dry
[11:00 PM-11:15 PM]	6	41 mpl		Dry
[11:15 PM-11:30 PM]	3	38 mpl		Dry
[11:30 PM-11:45 PM]	13	32 mpl		Dry
[11:45 PM-12:00 AM]	3	28 mpl	h 85 F	Dry
08/31/2004				
[12:00 AM-12:15 AM]	6	34 mpl	h 85 F	Dry
[12:15 AM-12:30 AM]	7	31 mpl		Dry
[12:30 AM-12:45 AM]	10	36 mpl		Dry
[12:45 AM-01:00 AM]	2	32 mpl		Dry
[01:00 AM-01:15 AM]	4	,		.Dry
[01:15 AM-01:30 AM]	4	39 mpl		Dry
[01:30 AM-01:45 AM]	7	34 mpl		Dry
[01:45 AM-02:00 AM]	2	32 mpl		Dry
[02:00 AM-02:15 AM]	0	0 mpl	h 82 F	Dry

Date & Time Range						NC97
(02:15 AM-02:30 AM    0	Wet/Dry	Temp	peed	Avg Sp	Count	Date & Time Range
[02:15 AM-02:30 AM]		<del></del>	_ <del></del>	. ——		08/31/2004
C02:30 AM-02:45 AM	Dry	82 F	mph	0	0	
[02:45 AM-03:00 AM] 2 28 mph 82 F [03:00 AM-03:15 AM] 0 0 mph 82 F [03:15 AM-03:30 AM] 1 38 mph 82 F [03:30 AM-03:45 AM] 2 32 mph 80 F [03:45 AM-04:00 AM] 1 33 mph 80 F [04:40 AM-04:15 AM] 1 33 mph 80 F [04:00 AM-04:15 AM] 1 33 mph 80 F [04:30 AM-04:45 AM] 2 30 mph 80 F [04:45 AM-04:30 AM] 3 31 mph 80 F [04:45 AM-05:00 AM] 4 34 mph 80 F [05:45 AM-05:00 AM] 5 3 mph 80 F [05:50 AM-05:15 AM] 1 38 mph 80 F [05:00 AM-05:15 AM] 1 38 mph 80 F [05:00 AM-05:15 AM] 1 38 mph 80 F [05:00 AM-05:15 AM] 1 38 mph 80 F [05:00 AM-05:15 AM] 1 38 mph 80 F [05:45 AM-06:30 AM] 10 34 mph 80 F [05:45 AM-06:30 AM] 12 38 mph 80 F [06:45 AM-06:00 AM] 12 38 mph 80 F [06:15 AM-06:30 AM] 18 34 mph 80 F [06:15 AM-06:30 AM] 18 34 mph 80 F [06:30 AM-06:45 AM] 3 19 mph 80 F [06:30 AM-07:15 AM] 43 32 mph 80 F [06:30 AM-07:15 AM] 43 32 mph 80 F [07:15 AM-07:30 AM] 71 37 mph 80 F [07:15 AM-07:30 AM] 71 37 mph 80 F [07:45 AM-08:00 AM] 89 35 mph 80 F [07:45 AM-08:00 AM] 94 35 mph 80 F [08:30 AM-07:45 AM] 99 35 mph 80 F [08:30 AM-08:15 AM] 89 35 mph 80 F [08:30 AM-08:15 AM] 89 35 mph 80 F [08:45 AM-08:00 AM] 94 35 mph 80 F [08:30 AM-09:30 AM] 102 32 mph 82 F [09:00 AM-09:15 AM] 37 36 mph 80 F [08:15 AM-09:30 AM] 102 32 mph 82 F [09:00 AM-09:15 AM] 135 37 mph 82 F [09:00 AM-09:15 AM] 105 38 mph 85 F [10:15 AM-10:00 AM] 106 38 mph 85 F [10:15 AM-10:00 AM] 106 38 mph 85 F [10:15 AM-10:00 AM] 106 38 mph 85 F [10:15 AM-10:00 AM] 106 38 mph 85 F [10:15 AM-10:00 AM] 106 38 mph 97 F [11:15 AM-11:30 AM] 62 36 mph 97 F [11:15 AM-11:30 AM] 62 36 mph 97 F [11:15 AM-11:30 AM] 62 36 mph 97 F [11:15 AM-11:30 AM] 62 36 mph 99 F	Dry		· · · · · ·			-
03:00 AM-03:15 AM	Dry					-
C03:15 AM-03:30 AM   1	Dry		•			- ·
G3:30 AM-03:45 AM    2   32 mph   80 F     G3:45 AM-04:00 AM    3   28 mph   80 F     G4:00 AM-04:15 AM    1   33 mph   80 F     G4:30 AM-04:45 AM    3   31 mph   80 F     G4:30 AM-04:45 AM    4   34 mph   80 F     G4:45 AM-05:00 AM    2   30 mph   80 F     G5:00 AM-05:15 AM    1   38 mph   80 F     G5:15 AM-05:30 AM    6   36 mph   80 F     G5:15 AM-05:30 AM    10   34 mph   80 F     G5:45 AM-06:30 AM    12   38 mph   80 F     G5:45 AM-06:00 AM    12   38 mph   80 F     G6:54 AM-06:00 AM    12   38 mph   80 F     G6:30 AM-06:45 AM    18   34 mph   80 F     G6:30 AM-06:45 AM    3   19 mph   80 F     G6:45 AM-07:30 AM    5   34 mph   80 F     G7:00 AM-07:15 AM    43   32 mph   80 F     G7:30 AM-07:30 AM    71   37 mph   80 F     G7:30 AM-07:45 AM    89   35 mph   80 F     G7:30 AM-08:45 AM    89   35 mph   80 F     G8:45 AM-08:30 AM    74   36 mph   80 F     G8:45 AM-08:30 AM    74   36 mph   80 F     G8:45 AM-08:30 AM    94   35 mph   80 F     G8:45 AM-08:30 AM    94   35 mph   80 F     G8:45 AM-08:30 AM    102   32 mph   80 F     G8:45 AM-09:00 AM    102   32 mph   82 F     G8:45 AM-09:00 AM    102   32 mph   82 F     G9:15 AM-09:30 AM    105   38 mph   83 F     G9:45 AM-10:00 AM    106   38 mph   85 F     G9:45 AM-10:00 AM    106   38 mph   85 F     G9:45 AM-10:00 AM    106   38 mph   85 F     G9:45 AM-10:00 AM    106   38 mph   85 F     G9:45 AM-10:00 AM    106   38 mph   85 F     G9:45 AM-10:00 AM    106   38 mph   95 F     G9:45 AM-10:00 AM    50   35 mph   97 F     G9:45 AM-11:30 AM    50   36 mph   97 F     G9:45 AM-11:45 AM    69   36 mph   97 F     G9:45 AM-11:45 AM    69   36 mph   97 F     G9:45 AM-11:45 AM    69   36 mph   99 F     G9:45 AM-12:30 PM    101   35 mph   99 F     G9:45 AM-12:30 PM    101   35 mph   99 F     G9:45 AM-12:30 PM    101   35 mph   99 F     G9:45 AM-12:30 PM    101   35 mph   99 F     G9:45 AM-12:30 PM    101   35 mph   99 F     G9:45 AM-12:30 PM    101   35 mph   99 F     G9:45 AM-12:30 PM    101   35 mph   99 F     G9:45 AM-12:30 PM    101   35 mph   99 F     G9:45 AM-12:	Dry		•			•
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[08:45 AM-09:00 AM]       102       32 mph       82 F         [09:00 AM-09:15 AM]       135       37 mph       82 F         [09:15 AM-09:30 AM]       120       37 mph       83 F         [09:30 AM-09:45 AM]       105       38 mph       83 F         [09:45 AM-10:00 AM]       106       38 mph       85 F         [10:00 AM-10:15 AM]       52       37 mph       85 F         [10:15 AM-10:30 AM]       28       35 mph       89 F         [10:30 AM-10:45 AM]       36       34 mph       91 F         [10:45 AM-11:00 AM]       50       35 mph       93 F         [11:00 AM-11:15 AM]       57       36 mph       97 F         [11:30 AM-11:45 AM]       69       36 mph       97 F         [11:45 AM-12:00 PM]       58       33 mph       99 F         [12:00 PM-12:15 PM]       95       36 mph       99 F         [12:15 PM-12:30 PM]       101       35 mph       99 F	Drý	82 F		36	37	[08:30 AM-08:45 AM]
[09:00 AM-09:15 AM]       135       37 mph       82 F         [09:15 AM-09:30 AM]       120       37 mph       83 F         [09:30 AM-09:45 AM]       105       38 mph       83 F         [09:45 AM-10:00 AM]       106       38 mph       85 F         [10:00 AM-10:15 AM]       52       37 mph       85 F         [10:15 AM-10:30 AM]       28       35 mph       89 F         [10:30 AM-10:45 AM]       36       34 mph       91 F         [10:45 AM-11:00 AM]       50       35 mph       93 F         [11:00 AM-11:15 AM]       57       36 mph       97 F         [11:15 AM-11:30 AM]       62       36 mph       97 F         [11:45 AM-12:00 PM]       58       33 mph       99 F         [12:00 PM-12:15 PM]       95       36 mph       99 F         [12:15 PM-12:30 PM]       101       35 mph       99 F	Dry		-			[08:45 AM-09:00 AM]
[09:15 AM-09:30 AM]       120       37 mph       83 F         [09:30 AM-09:45 AM]       105       38 mph       83 F         [09:45 AM-10:00 AM]       106       38 mph       85 F         [10:00 AM-10:15 AM]       52       37 mph       85 F         [10:15 AM-10:30 AM]       28       35 mph       89 F         [10:30 AM-10:45 AM]       36       34 mph       91 F         [10:45 AM-11:00 AM]       50       35 mph       93 F         [11:00 AM-11:15 AM]       57       36 mph       97 F         [11:15 AM-11:30 AM]       62       36 mph       97 F         [11:30 AM-11:45 AM]       69       36 mph       97 F         [11:45 AM-12:00 PM]       58       33 mph       99 F         [12:00 PM-12:15 PM]       95       36 mph       99 F         [12:15 PM-12:30 PM]       101       35 mph       99 F	Dry	82 F		37		[09:00 AM-09:15 AM]
[09:30 AM-09:45 AM]       105       38 mph       83 F         [09:45 AM-10:00 AM]       106       38 mph       85 F         [10:00 AM-10:15 AM]       52       37 mph       85 F         [10:15 AM-10:30 AM]       28       35 mph       89 F         [10:30 AM-10:45 AM]       36       34 mph       91 F         [10:45 AM-11:00 AM]       50       35 mph       93 F         [11:00 AM-11:15 AM]       57       36 mph       97 F         [11:15 AM-11:30 AM]       62       36 mph       97 F         [11:30 AM-11:45 AM]       69       36 mph       97 F         [11:45 AM-12:00 PM]       58       33 mph       99 F         [12:00 PM-12:15 PM]       95       36 mph       99 F         [12:15 PM-12:30 PM]       101       35 mph       99 F	Dry	83 F		37	120	<del>-</del>
[09:45 AM-10:00 AM]       106       38 mph       85 F         [10:00 AM-10:15 AM]       52       37 mph       85 F         [10:15 AM-10:30 AM]       28       35 mph       89 F         [10:30 AM-10:45 AM]       36       34 mph       91 F         [10:45 AM-11:00 AM]       50       35 mph       93 F         [11:00 AM-11:15 AM]       57       36 mph       97 F         [11:15 AM-11:30 AM]       62       36 mph       97 F         [11:30 AM-11:45 AM]       69       36 mph       97 F         [11:45 AM-12:00 PM]       58       33 mph       99 F         [12:00 PM-12:15 PM]       95       36 mph       99 F         [12:15 PM-12:30 PM]       101       35 mph       99 F	Dry		•			
[10:15 AM-10:30 AM]       28       35 mph       89 F         [10:30 AM-10:45 AM]       36       34 mph       91 F         [10:45 AM-11:00 AM]       50       35 mph       93 F         [11:00 AM-11:15 AM]       57       36 mph       97 F         [11:15 AM-11:30 AM]       62       36 mph       97 F         [11:30 AM-11:45 AM]       69       36 mph       97 F         [11:45 AM-12:00 PM]       58       33 mph       99 F         [12:00 PM-12:15 PM]       95       36 mph       99 F         [12:15 PM-12:30 PM]       101       35 mph       99 F	Dry			38		
[10:30 AM-10:45 AM]       36       34 mph       91 F         [10:45 AM-11:00 AM]       50       35 mph       93 F         [11:00 AM-11:15 AM]       57       36 mph       97 F         [11:15 AM-11:30 AM]       62       36 mph       97 F         [11:30 AM-11:45 AM]       69       36 mph       97 F         [11:45 AM-12:00 PM]       58       33 mph       99 F         [12:00 PM-12:15 PM]       95       36 mph       99 F         [12:15 PM-12:30 PM]       101       35 mph       99 F	Dry		mph	37		<del>-</del>
[10:45 AM-11:00 AM]       50       35 mph       93 F         [11:00 AM-11:15 AM]       57       36 mph       97 F         [11:15 AM-11:30 AM]       62       36 mph       97 F         [11:30 AM-11:45 AM]       69       36 mph       97 F         [11:45 AM-12:00 PM]       58       33 mph       99 F         [12:00 PM-12:15 PM]       95       36 mph       99 F         [12:15 PM-12:30 PM]       101       35 mph       99 F	Dry	89 F	mph	35		<del>-</del>
[10:45 AM-11:00 AM]       50       35 mph       93 F         [11:00 AM-11:15 AM]       57       36 mph       97 F         [11:15 AM-11:30 AM]       62       36 mph       97 F         [11:30 AM-11:45 AM]       69       36 mph       97 F         [11:45 AM-12:00 PM]       58       33 mph       99 F         [12:00 PM-12:15 PM]       95       36 mph       99 F         [12:15 PM-12:30 PM]       101       35 mph       99 F	Dry Dry		mph	34		
[11:00 AM-11:15 AM]     57     36 mph     97 F       [11:15 AM-11:30 AM]     62     36 mph     97 F       [11:30 AM-11:45 AM]     69     36 mph     97 F       [11:45 AM-12:00 PM]     58     33 mph     99 F       [12:00 PM-12:15 PM]     95     36 mph     99 F       [12:15 PM-12:30 PM]     101     35 mph     99 F	Dry		mph	35		•
[11:15 AM-11:30 AM]     62     36 mph     97 F       [11:30 AM-11:45 AM]     69     36 mph     97 F       [11:45 AM-12:00 PM]     58     33 mph     99 F       [12:00 PM-12:15 PM]     95     36 mph     99 F       [12:15 PM-12:30 PM]     101     35 mph     99 F	Dry			36		-
[11:30 AM-11:45 AM]     69     36 mph     97 F       [11:45 AM-12:00 PM]     58     33 mph     99 F       [12:00 PM-12:15 PM]     95     36 mph     99 F       [12:15 PM-12:30 PM]     101     35 mph     99 F	Dry	97 F	mph	36		•
[11:45 AM-12:00 PM]     58     33 mph     99 F       [12:00 PM-12:15 PM]     95     36 mph     99 F       [12:15 PM-12:30 PM]     101     35 mph     99 F	Dry	97 F		36	69	
[12:00 PM-12:15 PM] 95 36 mph 99 F [12:15 PM-12:30 PM] 101 35 mph 99 F	Dry	99 F			58	•
[12:15 PM-12:30 PM] 101 35 mph 99 F	Dry	99 F		36	95	· ·
·	Drý		mph	35		
•	Drý		•			[12:30 PM-12:45 PM]
[12:45 PM-01:00 PM] 95 34 mph 103 F	· Drý					[12:45 PM-01:00 PM]
[01:00 PM-01:15 PM] 84 37 mph 105 F	Drý					-
[01:15 PM-01:30 PM] 78 35 mph 107 F	Dry					· ·
[01:30 PM-01:45 PM] 74 36 mph 107 F	Dry					•
[01:45 PM-02:00 PM] 62 37 mph 107 F	Dry					-

NC97				
Date & Time Range	Count	Avg Speed	Temp	_ Wet/Dry
08/31/2004				
[02:00 PM-02:15 PM]	69	35 mph	109 F	Dry
[02:15 PM-02:30 PM]	68	33 mph	111 F	Dry
[02:30 PM-02:45 PM]	66	36 mph	109 F	Dry
[02:45 PM-03:00 PM]	63	36 mph	111 F	Dry
[03:00 PM-03:15 PM]	50	37 mph	109 F	Dry
[03:15 PM-03:30 PM]	51	36 mph	111 F	Dry
[03:30 PM-03:45 PM]	72	37 mph	111 F	Dry
[03:45 PM-04:00 PM]	59	. 35 mph	113 F	Dry
[04:00 PM-04:15 PM]	59	38 mph	113 F	Dry
[04:15 PM-04:30 PM]	49	36 mph	111 F	Dry '

#### Nu-Metrics Traffic Analyzer Study Computer Generated Summary Report City: Kansas City Street: Southwest Blvd

A study of vehicle traffic was conducted with HI-STAR unit number 6655. The study was done in the NB lane on Southwest Blvd in Kansas City, MO in Jackson county. The study began on 08/30/2004 at 04:30 PM and concluded on 08/31/2004 at 04:30 PM, lasting a total of 24 hours. Data was recorded in 15 minute time periods. The total recorded volume of traffic showed 4,883 vehicles passed through the location with a peak volume of 168 on 08/31/2004 at 08:00 AM and a minimum volume of 0 on 08/31/2004 at 04:00 AM. The AADT Count for this study was 4,883.

#### SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

	Chart 1													
0	10	15	20	25	30	35	40	45	50	55	60	65	70	75
to	to	to	· to	to	to	to	to	to	to	to	to	to	to	>
9	14	19	24	29	34	39	44	49	54	59	64	69	74	
0	29	66	102	214	921	1797	1238	421	116	32	25	6	6	2

At least half of the vehicles were traveling in the 35 - 39 mph range or a lower speed. The average speed for all classified vehicles was 38 mph with 73.2 percent exceeding the posted speed of 35 mph. The HI-STAR found 1.43 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 35 mph and the 85th percentile was 44.44 mph.

#### **CLASSIFICATION**

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

	Chart 2										
0	21	28	40	50	60	70	80				
to	to	to	to	to	to	to	>				
20	27	39	49	59	69	79	<u> </u>				
4710	140	91	13	13	7	1	0				

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 4,850 which represents 97.50 percent of the total classified vehicles. The number of Small Trucks in the study was 91 which represents 1.80 percent of the total classified vehicles. The number of Trucks/Buses in the study was 13 which represents 0.30 percent of the total classified vehicles. The number of Tractor Trailers in the study was 21 which represents 0.40 percent of the total classified vehicles.

#### **HEADWAY**

During the peak time period, on 08/31/2004 at 08:00 AM the average headway between the vehicles was 5.33 seconds. The slowest traffic period was on 08/31/2004 at 04:00 AM. During this slowest period, the average headway was 900.0 seconds.

#### **WEATHER**

The roadway surface temperature over the period of the study varied between 78 and 115 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

HI-Star ID: 6655 Begin: 08/30/2004 04:30 PM End: 08/31/2004 04:30 PM

Street: Southwest Blvd Lane: NB Hours: 24:00 State: MO Oper: SJ Period: 15 City: Kansas City Raw Count: 4883 Posted: 35

County: Jackson				4883
NC97				
Date & Time Range	Count	Avg Speed	Temp	Wet/Dry
08/30/2004				
[04:30 PM-04:45 PM]	10	40 mph	115 F	Dry
[04:45 PM-05:00 PM]	73	42 mph	113 F	Dry
[05:00 PM-05:15 PM]	106	41 mph	111 F	Dry
[05:15 PM-05:30 PM]	86	39 mph	111 F	Dry
[05:30 PM-05:45 PM]	74	40 mph	109 F	Dry
[05:45 PM-06:00 PM]	57	41 mph	109 F	Dry
[06:00 PM-06:15 PM]	53	39 mph	107 F	Dry
[06:15 PM-06:30 PM]	52	40 mph	103 F	Dry
[06:30 PM-06:45 PM]	43	41 mph	103 F	Dry
[06:45 PM-07:00 PM]	49	41 mph	101 F	Dry
[07:00 PM-07:15 PM]	31	39 mph	99 F	Dry
[07:15 PM-07:30 PM]	31	39 mph	97 F	Dry
[07:30 PM-07:45 PM]	37	41 mph	97 F	Dry
[07:45 PM-08:00 PM]	33	39 mph	95 F	Dry
[08:00 PM-08:15 PM]·	33	39 mph	95 F	Dry
[08:15 PM-08:30 PM]	21	40 mph	93 F	Dry
[08:30 PM-08:45 PM]	18	36 mph	91 F	Dry
[08:45 PM-09:00 PM]	18	37 mph	91 F	Dry
[09:00 PM-09:15 PM]	31	39 mph	91 F	Dry
[09:15 PM-09:30 PM]	19	38 mph	89 F	Dry
[09:30 PM-09:45 PM]	13	37 mph	89 F	Dry
[09:45 PM-10:00 PM]	19	36 mph	89 F	Dry
[10:00 PM-10:15 PM]	13	39 mph	87 F	Dry
[10:15 PM-10:30 PM]	12	38 mph	87 F	Dry
[10:30 PM-10:45 PM]	22	37 mph	87 F	Dry
[10:45 PM-11:00 PM]	15	38 mph	85 F	Dry
[11:00 PM-11:15 PM]	15	38 mph	85 F	Dry
[11:15 PM-11:30 PM]	12	36 mph	85 F	Dry
[11:30 PM-11:45 PM]	17	36 mph	85 F	Dry
[11:45 PM-12:00 AM]	6	35 mph	83 F	Dry
08/31/2004				
[12:00 AM-12:15 AM]	10	39 mph	83 F	Dry
[12:15 AM-12:30 AM]	7	38 mph	83 F	Dry
[12:30 AM-12:45 AM]	9	38 mph	83 F	Dry
[12:45 AM-01:00 AM]	1	43 mph	83 F	Dry
[01:00 AM-01:15 AM]	5	46 mph	., 82 F	Dry
[01:15 AM-01:30 AM]	4	39 mph	82 F	Dry
[01:30 AM-01:45 AM]	8	36 mph	82 F	Dry
[01:45 AM-02:00 AM]	1	38 mph	82 F	Dry
[02:00 AM-02:15 AM]	1	33 mph	80 F	Dry

NC97			perature repor	
11031				
Date & Time Range	Count	Avg Speed	Temp	Wet/Dry
08/31/2004	·			
[02:15 AM-02:30 AM]	4	38 mph	80 F	Dry
[02:30 AM-02:45 AM]	2	38 mph	80 F	Dry
[02:45 AM-03:00 AM]	4	36 mph	80 F	Dry
[03:00 AM-03:15 AM]	4	38 mph	80 F	Dry
[03:15 AM-03:30 AM]	1	43 mph	80 F	Dry
[03:30 AM-03:45 AM]	3	38 mph	80 F	Dry
[03:45 AM-04:00 AM]	5	45 mph	80 F	Dry
[04:00 AM-04:15 AM]	0	0 mph	80 F	Dry
[04:15 AM-04:30 AM]	4	39 mph	78 F	Dry
[04:30 AM-04:45 AM]	3	39 mph	78 F	Drý
[04:45 AM-05:00 AM]	6	37 mph	78 F	Dry
[05:00 AM-05:15 AM]	5	45 mph	78 F	Dry
[05:15 AM-05:30 AM]	4	44 mph	78 F	Dry
[05:30 AM-05:45 AM]	13	40 mph	78 F	Dry
[05:45 AM-06:00 AM]	15	37 mph	78 F	Dry
[06:00 AM-06:15 AM]	16	36 mph	78 F	Dry
[06:15 AM-06:30 AM]	24	26 mph	78 F	Dry
[06:30 AM-06:45 AM]	70	37 mph	78 F	Dry
[06:45 AM-07:00 AM]	79	39 mph	78 F	Dry
[07:00 AM-07:15 AM]	104	35 mph	78 F	Dry
[07:15 AM-07:30 AM]	67	39 mph	78 F	Drý
[07:30 AM-07:45 AM]	93	40 mph	80 F	Dry
[07:45 AM-08:00 AM]	117	38 mph	80 F	Dry
[08:00 AM-08:15 AM]	168	35 mph	80 F	Dry
[08:15 AM-08:30 AM]	114	39 mph	80 F	Dry
[08:30 AM-08:45 AM]	139	33 mph	80 F	Dry
[08:45 AM-09:00 AM]	139	36 mph	82 F	Dry
[09:00 AM-09:15 AM]	120	40 mph	82 F	Dry
[09:15 AM-09:30 AM]	123	41 mph	83 F	Dry
[09:30 AM-09:45 AM]	121	41 mph	87 F	Dry
[09:45 AM-10:00 AM]	127	40 mph	89 F	Dry
[10:00 AM-10:15 AM]	58	39 mph	91 F	Dry
[10:15 AM-10:30 AM]	66	38 mph	91 F	Dry
[10:30 AM-10:45 AM]	62	36 mph	5 93 F	Dry
[10:45 AM-11:00 AM]	67	38 mph	97 F	Dry
[11:00 AM-11:15 AM]	76	39 mph	97 F	Dry
[11:15 AM-11:30 AM]	63	39 mph	99 F	Dry
[11:30 AM-11:45 AM]	78	37 mph	99 F	Dry
[11:45 AM-12:00 PM]	90	37 mph	101 F	Drý
[12:00 PM-12:15 PM]	93	39 mph	101 F	Dry
[12:15 PM-12:30 PM]	99	37 mph	101 F	Drý
[12:30 PM-12:45 PM]	106	38 mph	101 F	Dry
[12:45 PM-01:00 PM]	118	- 36 - mph		Dry
[01:00 PM-01:15 PM]	95	38 mph	107 F	Dry
[01:15 PM-01:30 PM]	74	38 mph	107 F	Dry
[01:30 PM-01:45 PM]	81	36 mph	107 F	Dry
[01:45 PM-02:00 PM]	76	39 mph	107 F	Dry
	,	55 mpn	,	Σ.γ

NC97				
Date & Time Range	Count	Avg Speed	Temp	Wet/Dry_
08/31/2004				
[02:00 PM-02:15 PM]	67	38 mph	109 F	Dry
[02:15 PM-02:30 PM]	68	37 mph	111 F	Dry
[02:30 PM-02:45 PM]	77	34 mph	111 F	Dry
[02:45 PM-03:00 PM]	71	39 mph	111 F	Dry
[03:00 PM-03:15 PM]	92	38 mph	111 F	Dry
[03:15 PM-03:30 PM]	90	40 mph	113 F	Dry
[03:30 PM-03:45 PM]	117	37 mph	111 F	Dry
[03:45 PM-04:00 PM]	76	40 mph	113 F	Dry
[04:00 PM-04:15 PM]	86	39 mph	113 F	Dry
[04:15 PM-04:30 PM]	78	39 mph	111 F	Dry

# Nu-Metrics Traffic Analyzer Study Computer Generated Summary Report City: Kansas City

Street: Southwest Blvd

A study of vehicle traffic was conducted with HI-STAR unit number 6437. The study was done in the SB lane on Southwest Blvd in Kansas City, MO in Jackson county. The study began on 08/30/2004 at 04:30 PM and concluded on 08/31/2004 at 04:30 PM, lasting a total of 24 hours. Data was recorded in 15 minute time periods. The total recorded volume of traffic showed 1,261 vehicles passed through the location with a peak volume of 54 on 08/30/2004 at 05:00 PM and a minimum volume of 0 on 08/30/2004 at 07:45 PM. The AADT Count for this study was 1,261.

#### SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

							Chart 1	l						
0	10	15	20	25	30	35	40	45	50	55	60	65	70	75
to 9	to 14	to 19	to 24	to 29	to 34	to 39	to 44	to 49	to 54	to 59	to 64	to 69	to 74	>
0	4	57	102	215	349	286	141	63	22	9	6	2	4	1

At least half of the vehicles were traveling in the 30 - 34 mph range or a lower speed. The average speed for all classified vehicles was 34 mph with 42.3 percent exceeding the posted speed of 35 mph. The HI-STAR found 1.74 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 30 mph and the 85th percentile was 42.09 mph.

#### CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

	Chart 2										
0	21	28	40	50	60	70	80				
to 20	to 27	to 39	to 49	to 59	to 69	to 79	>				
1150	65	34	8	4	0	0	0				

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 1,215 which represents 96.40 percent of the total classified vehicles. The number of Small Trucks in the study was 34 which represents 2.70 percent of the total classified vehicles. The number of Trucks/Buses in the study was 8 which represents 0.60 percent of the total classified vehicles. The number of Tractor Trailers in the study was 4 which represents 0.30 percent of the total classified vehicles.

#### HEADWAY

During the peak time period, on 08/30/2004 at 05:00 PM the average headway between the vehicles was 16:36 seconds. The slowest traffic period was on 08/30/2004 at 07:45 PM. During this slowest period, the average headway was 900.0 seconds.

#### **WEATHER**

The roadway surface temperature over the period of the study varied between 78 and 117 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

HI-Star ID: 6437 Street: Southwest Blvd	Begin: Lane:	08/30/2004 04:30 PM SB	End: 08/31/200 Hours: 24:00	04:30 PM
State: MO	Oper:	SJ	Period: 15	
City: Kansas City	Posted		Raw Count: 12	
County: Jackson	AADT I	Factor: 1	AADT Count: 1	261
NC97				
Date & Time Range	Count	Avg Speed	Temp	Wet/Dry
08/30/2004				
[04:30 PM-04:45 PM]	18	30 mph	117 F	Dry
[04:45 PM-05:00 PM]	23	26 mph	117 F	Dry
[05:00 PM-05:15 PM]	54	28 mph	115 F	Dry
[05:15 PM-05:30 PM]	48	28 mph	113 F	Dry
[05:30 PM-05:45 PM]	47	36 mph	113 F	Dry
[05:45 PM-06:00 PM]	30	35 mph	111 F	Dry
[06:00 PM-06:15 PM]	15	35 mph	107 F	Dry
[06:15 PM-06:30 PM]	8	39 mph	105 F	Dry
[06:30 PM-06:45 PM]	10	39 mph	103 F	Dry
[06:45 PM-07:00 PM]	4	32 mph	101 F	Dry
[07:00 PM-07:15 PM]	1	38 mph	99 F	Dry
[07:15 PM-07:30 PM]	3	40 mph	97 F	Dry
[07:30 PM-07:45 PM]	2	28 mph	97 F	Dry
[07:45 PM-08:00 PM]	0	0 mph	97 F	Dry
[08:00 PM-08:15 PM]	. 3	31 mph	95 F	Dry
[08:15 PM-08:30 PM]	1	53 mph	95 F	Dry
[08:30 PM-08:45 PM]	0	0 mph	93 F	Dry
[08:45 PM-09:00 PM]	2	36 mph	91 F	Dry
[09:00 PM-09:15 PM]	2	22 mph	91 F	Dry
[09:15 PM-09:30 PM]	3	35 mph	91 F	Dry
[09:30 PM-09:45 PM]	2	28 mph	89 F	Dry
[09:45 PM-10:00 PM]	0	0 mph	89 F	Dry
[10:00 PM-10:15 PM]	5	36 mph	89 F	Dry
[10:15 PM-10:30 PM]	6	31 mph	87 F	Dry
[10:30 PM-10:45 PM]	4	36 mph	87 F	Dry
[10:45 PM-11:00 PM]	5	34 mph	87 F	Dry
[11:00 PM-11:15 PM]	3	~ 36 mph	85 F	Dry
[11:15 PM-11:30 PM]	3	46 mph	85 F	Dry
[11:30 PM-11:45 PM]	2	36 mph	85 F	Dry
[11:45 PM-12:00 AM]	2	30 mph	85 F	Dry
08/31/2004				
[12:00 AM-12:15 AM]	1	23 mph	83 F	Dry
[12:15 AM-12:30 AM]	3	26 mph	83 F	Dry
[12:30 AM-12:45 AM]	0	0 mph	83 F	Dry
[12:45 AM-01:00 AM]	1	33 mph	83 F	Dry
[01:00,AM-01:15 AM]	1		, 83 F	Dry
[01:15 AM-01:30 AM]	3	33 mph	82 F	Dry
[01:30 AM-01:45 AM]	0	0 mph	82 F	Dry
[01:45 AM-02:00 AM]	0	0 mph	82 F	Dry
[02:00 AM-02:15 AM]	1	33 mph	82 F	Dry

	Time/volume/Avera			<u> </u>
NC97				
			_	
Date & Time Range	Count	Avg Speed	Temp	Wet/Dry
08/31/2004				
[02:15 AM-02:30 AM]	1	28 mph	80 F	Dry
[02:30 AM-02:45 AM]	0	0 mph	80 F	Dry
[02:45 AM-03:00 AM]	1	33 mph	80 F	Dry
[03:00 AM-03:15 AM]	0	0 mph		Drý
[03:15 AM-03:30 AM]	1	43 mph		Dry
[03:30 AM-03:45 AM]	1	13 mph		Dry
[03:45 AM-04:00 AM]	0	0 mph		Drý
[04:00 AM-04:15 AM]	0	0 mph		Dry
[04:15 AM-04:30 AM]	2	22 mph		Drý
[04:30 AM-04:45 AM]	2	30 mph		Dry
[04:45 AM-05:00 AM]	. 0	0 mph		. Drý
[05:00 AM-05:15 AM]	2	36 mph		Drý
[05:15 AM-05:30 AM]	1	33 mph		Dry
[05:30 AM-05:45 AM]	1	23 mph		Dry
[05:45 AM-06:00 AM]	1	38 mph		Dry
[06:00 AM-06:15 AM]	9	30 mph		Dry
[06:15 AM-06:30 AM]	13	31 mph		Dry
[06:30 AM-06:45 AM]	32	30 mph		Dry
[06:45 AM-07:00 AM]	36	36 mph		Dry
[07:00 AM-07:15 AM]	22	33 mph		Dry
[07:15 AM-07:30 AM]	18	33 mph		Dry
[07:30 AM-07:45 AM]	29	34 mph		Dry
[07:45 AM-08:00 AM]	32	33 mph		Dry
[08:00 AM-08:15 AM]	29	35 mph		Dry
[08:15 AM-08:30 AM]	16	34 mph		Dry
[08:30 AM-08:45 AM]	18	36 mph		Dry
[08:45 AM-09:00 AM]	15	37 mph		Dry
[09:00 AM-09:15 AM]	15	33 mph		Dry
[09:15 AM-09:30 AM]	11	36 mph		Dry
[09:30 AM-09:45 AM]	9	30 mph		Dry
[09:45 AM-10:00 AM]	14	36 mph		Dry
[10:00 AM-10:15 AM]	9	32 mph		Dry
[10:15 AM-10:30 AM]	17	34 <b>m</b> ph		Dry
[10:30 AM-10:45 AM]	28	36 mph		Dry
[10:45 AM-11:00 AM]	25	37 mph		Dry
[11:00 AM-11:15 AM]	15	38 mph		Dry
[11:15 AM-11:30 AM]	18	36 mph		Dry
[11:30 AM-11:45 AM]	22	35 mph		Dry
[11:45 AM-12:00 PM]	19	36 mph		Dry
[12:00 PM-12:15 PM]	36	37 mph		Dry
[12:15 PM-12:30 PM]	22	34 mph		Dry
[12:30 PM-12:45 PM]	24	34 mph		Dry
[12:45 PM-01:00 PM]	- 26	33 mph		Dry
[01:00 PM-01:15 PM]	25	•		
<u> </u>		38 mph		Dry
[01:15 PM-01:30 PM]	27	33 mph		Dry
[01:30 PM-01:45 PM]	20	36 mph		Dry
[01:45 PM-02:00 PM]	25	34 mph	111 F	Dry

NC97				
Date & Time Range	Count	Avg Speed	Temp	Wet/Dry
08/31/2004				
[02:00 PM-02:15 PM]	24	38 mph	113 F	Dry
[02:15 PM-02:30 PM]	23	33 mph	117 F	Dry
[02:30 PM-02:45 PM]	39	33 mph	117 F	Dry
[02:45 PM-03:00 PM]	26	35 mph	115 F	Dry
[03:00 PM-03:15 PM]	20	37 mph	115 F	Dry
[03:15 PM-03:30 PM]	29	39 mph	117 F	Dry
[03:30 PM-03:45 PM]	25	35 mph	117 F	Dry
[03:45 PM-04:00 PM]	25	34 mph	117 F	Dry
[04:00 PM-04:15 PM]	24	40 mph	117 F	Dry
[04:15 PM-04:30 PM]	21	38 mph	115 F	Dry

# Nu-Metrics Traffic Analyzer Study Computer Generated Summary Report City: Kansas City Street: Southwest Blvd

A study of vehicle traffic was conducted with HI-STAR unit number 6435. The study was done in the SB lane on Southwest Blvd in Kansas City, MO in Jackson county. The study began on 08/30/2004 at 04:30 PM and concluded on 08/31/2004 at 04:30 PM, lasting a total of 24 hours. Data was recorded in 15 minute time periods. The total recorded volume of traffic showed 5,735 vehicles passed through the location with a peak volume of 244 on 08/30/2004 at 05:00 PM and a minimum volume of 1 on 08/31/2004 at 02:30 AM. The AADT Count for this study was 5,735.

#### SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

	Chart 1													
0	10	15	20	25	30	35	40	45	50	55	60	65	70	75
to	to	to	to	to	to	to	to	to	to	to	to	to	to	>
<u></u>	14	19	24	29	34	39	44	49	54	59	64	69	74	<u>                                      </u>
0	33	81	145	542	1605	2084	997	285	57	15	14	6	8	6

At least half of the vehicles were traveling in the 35 - 39 mph range or a lower speed. The average speed for all classified vehicles was 36 mph with 59.0 percent exceeding the posted speed of 35 mph. The HI-STAR found 0.83 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 35 mph and the 85th percentile was 42.54 mph.

#### CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

	Chart 2								
0	21	28	40	50	60	70	80		
to 20	to 27	to 39	to 49	to 59	to 69	to 79	>		
5499	219	113	17	19	9	2	0		

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 5,718 which represents 97.30 percent of the total classified vehicles. The number of Small Trucks in the study was 113 which represents 1.90 percent of the total classified vehicles. The number of Trucks/Buses in the study was 17 which represents 0.30 percent of the total classified vehicles. The number of Tractor Trailers in the study was 30 which represents 0.50 percent of the total classified vehicles.

#### **HEADWAY**

During the peak time period, on 08/30/2004 at 05:00 PM the average headway between the vehicles was 3.67 seconds. The slowest traffic period was on 08/31/2004 at 02:30 AM. During this slowest period, the average headway was 450.0 seconds.

#### **WEATHER**

The roadway surface temperature over the period of the study varied between 78 and 113 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

					<del></del> _
HI-Star ID: 6435	Begin:	08/30/2004 0	4:30 PM	End: 08/31/	2004 04:30 PM
Street: Southwest Blvd	Lane:			Hours: 24:0	
State: MO	Oper;	SJ		Period: 15	
City: Kansas City	Posted	l: 35		Raw Count:	5735
County: Jackson	AADT	Factor: 1		AADT Count	t: 5735
NC97					
Date & Time Range	Count	Avg Sr	peed	Temp	Wet/Dry
08/30/2004					
[04:30 PM-04:45 PM]	16	36	mph	113 F	Dry
[04:45 PM-05:00 PM]	215	37	mph	111 F	Dry
[05:00 PM-05:15 PM]	244	36	mph	109 F	Dry
[05:15 PM-05:30 PM]	239	36	mph	109 F	Dry
[05:30 PM-05:45 PM]	210	36	mph	107 F	Dry
[05:45 PM-06:00 PM]	187	38	mph	107 F	Dry
[06:00 PM-06:15 PM]	150	39	mph	105 F	Dry
[06:15 PM-06:30 PM]	104	38	mph	103 F	Dry
[06:30 PM-06:45 PM]	66	37	mph	101 F	Dry
[06:45 PM-07:00 PM]	68	37	mph	101 F	Dry
[07:00 PM-07:15 PM]	56	37	mph	99 F	Dry
[07:15 PM-07:30 PM]	66	35	mph	97 F	Dry
[07:30 PM-07:45 PM]	55	37	mph	97 F	Dry
[07:45 PM-08:00 PM]	44	36	mph	95 F	Dry
[08:00 PM-08:15 PM]	52	38	mph	95 F	Dry
[08:15 PM-08:30 PM]	45	34	mph	93 F	Dry
[08:30 PM-08:45 PM]	32	35	mph	93 F	Dry
[08:45 PM-09:00 PM]	40	35	mph	91 F	Dry
[09:00 PM-09:15 PM]	39	37	mph	91 F	Dry
[09:15 PM-09:30 PM]	41	36	mph	91 F	Dry
[09:30 PM-09:45 PM]	30	37	mph	89 F	Dry
[09:45 PM-10:00 PM]	21	36	mph	89 F	Dry
[10:00 PM-10:15 PM]	31	35	mph	89 F	Dry
[10:15 PM-10:30 PM]	24	36	mph	87 F	Dry
[10:30 PM-10:45 PM]	17	34	mph	87 F	Dry
[10:45 PM-11:00 PM]	18	36	mph	87 F	Dry
[11:00 PM-11:15 PM]	19	37		85 F	Dry
[11:15 PM-11:30 PM]	18	38	mph	85 F	Dry
[11:30 PM-11:45 PM]	17	33	mph	85 F	Dry
[11:45 PM-12:00 AM]	10	32	mph	85 F	Dry
08/31/2004					
[12:00 AM-12:15 AM]	15	34	mph	83 F	Dry
[12:15 AM-12:30 AM]	10	36	mph	83 F	Dry
[12:30 AM-12:45 AM]	14	40	mph	83 F	Dry
[12:45 AM-01:00 AM]	7	34	mph	83 F	Dry
[01:00 AM-01:15 AM]	7	35	mph .	82 F	. Dry
[01:15 AM-01:30 AM]	4	39	mph	82 F	Dry
[01:30 AM-01:45 AM]	7	38	mph	82 F	Dry
[01:45 AM-02:00 AM]	4	36	mph	82 F	Dry
[02:00 AM-02:15 AM]	3	38	mph	80 F	Dry

Date Time Volume Average opeca, Temperature Report							
NC97							
Date & Time Range	Count	Avg Speed	Temp	Wet/Dry			
08/31/2004	, 000,11		, .с.пр	,			
[02:15 AM-02:30 AM]	3	36 mph	80 F	Dry			
[02:30 AM-02:45 AM]	1	43 mph		Dry			
[02:45 AM-03:00 AM]	4	37 mph		Dry			
[03:00 AM-03:15 AM]	6	37 mph 39 mph					
[03:15 AM-03:30 AM]	8	38 mph		Dry			
[03:30 AM-03:45 AM]	5	35 mph	80 F	Dry			
[03:45 AM-04:00 AM]	1	28 mph	80 F	Dry			
[04:00 AM-04:15 AM]	3	34 mph	78 F	Dry			
[04:15 AM-04:30 AM]	5	35 mph		Dry			
[04:30 AM-04:45 AM]	5	34 mph	78 F	Dry Dry			
[04:45 AM-05:00 AM]	9	30 mph	78 F	Dry			
[05:00 AM-05:15 AM]	7	39 mph	78 F	Dry			
[05:15 AM-05:30 AM]	4	38 mph	78 F	Dry			
[05:30 AM-05:45 AM]	14	36 mph	78 F	Dry			
[05:45 AM-06:00 AM]	12	39 mph	78 F	Dry			
[06:00 AM-06:15 AM]	15	32 mph		Dry			
[06:15 AM-06:30 AM]	20	32 mph	78 F	Dry			
[06:30 AM-06:45 AM]	47	36 mph		Dry			
[06:45 AM-07:00 AM]	64	36 mph		Dry			
[07:00 AM-07:15 AM]	67	33 mph	78 F	Dry			
[07:15 AM-07:30 AM]	62	37 mph	78 F	Dry			
[07:30 AM-07:45 AM]	73	33 mph	78 F	Dry			
[07:45 AM-08:00 AM]	73	35 mph	78 F	Dry			
[08:00 AM-08:15 AM]	49	35 mph	80 F	Dry			
[08:15 AM-08:30 AM]	54	37 mph	80 F	Dry			
[08:30 AM-08:45 AM]	76	36 mph	82 F	Dry			
[08:45 AM-09:00 AM]	51	36 mph	83 F	Dry			
[09:00 AM-09:15 AM]	56	35 mph	85 F	Dry			
[09:15 AM-09:30 AM]	61	37 mph	87 F	Dry			
[09:30 AM-09:45 AM]	57	37 mph	89 F	Dry			
[09:45 AM-10:00 AM]	62	37 mph	91 F	Dry			
[10:00 AM-10:15 AM]	70	36 mph	91 F	Dry			
[10:15 AM-10:30 AM]	69	35 mph	91 F	Dry			
[10:30 AM-10:45 AM]	79	34 mph	93 F	Dry			
[10:45 AM-11:00 AM]	74	36 mph	95 F	Dry			
[11:00 AM-11:15 AM]	110	37 mph	97 F	Dry			
[11:15 AM-11:30 AM]	103	37 mph	97 F	Dry			
[11:30 AM-11:45 AM]	148	35 mph		Dry			
[11:45 AM-12:00 PM]	127	35 mph	99 F	Dry			
[12:00 PM-12:15 PM]	107	35 mph	99 F	Dry			
[12:15 PM-12:30 PM]	89	36 mph	99 F	Dry			
[12:30 PM-12:45 PM]	107	35 mph	101 F	Dry			
[12:45 PM-01:00 PM]	112	35 mph		. Dry			
[01:00 PM-01:15 PM]	96	36 mph	107 F	Dry			
[01:15 PM-01:30 PM]	89	34 mph		Dry			
[01:30 PM-01:45 PM]	92	35 mph	107 F	Dry			
[01:45 PM-02:00 PM]	80	34 mph	107 F	Dry			
15	50	o <del>u</del> mpn	107 1	Diy			

NC97				
Date & Time Range	Count	Avg Speed	Temp	Wet/Dry
08/31/2004				
[02:00 PM-02:15 PM]	84	36 mph	107 F	Dry
[02:15 PM-02:30 PM]	103	37 mph	109 F	Đry
[02:30 PM-02:45 PM]	83	36 mph	109 F	Dry
[02:45 PM-03:00 PM]	95	37 mph	109 F	Dry
[03:00 PM-03:15 PM]	84	36 mph	109 F	Dry
[03:15 PM-03:30 PM]	103	38 mph	111 F	Dry
[03:30 PM-03:45 PM]	98	38 mph	111 F	Dry
[03:45 PM-04:00 PM]	81	37 mph	111 F	Đry
[04:00 PM-04:15 PM]	111	38 mph	111 F	Dry
[04:15 PM-04:30 PM]	122	38 mph	109 F	Dry

	15 min	15 min	pk hr	pk hr	pk hr
SW Blvd	NB1	NB2	pix / iii	PKIII	PK III
Time	Vehicles	Vehicles	NB1	NB2	NB1+NB2
8/30/2004 16:45	43	10	210	250	460
8/30/2004 17:00	50	73	201	247	448
8/30/2004 17:15	60	106	202	267	469
8/30/2004 17:30	60	86	213	275	488
8/30/2004 17:45	47	74	217	339	
8/30/2004 17:45	46	57	217		556
8/30/2004 18:15	44	53	197	323	536
8/30/2004 18:30	31	52		270	467
8/30/2004 18:45	45	43	168	236	404
8/30/2004 18:45	27	43	166	205	371
8/30/2004 19:15		31	147	197	344
8/30/2004 19:15	28		131	175	306
8/30/2004 19:45	23 20	31 37	123	154	277
8/30/2004 19:45		33	98	148	246
	22		93	132	225
8/30/2004 20:15 8/30/2004 20:30	23	33	88	134	222
l—————	21	21	86	124	210
8/30/2004 20:45	19	18	85	105	190
8/30/2004 21:00	23	18	86	90	176
8/30/2004 21:15	12	31	75	88	163
8/30/2004 21:30	20	19	74	86	160
8/30/2004 21:45	9	13	64	81	145
8/30/2004 22:00	15	19	56	82	138
8/30/2004 22:15	8 7	13	52	64	116
8/30/2004 22:30 8/30/2004 22:45	5	12 22	39	57	96
8/30/2004 22:45	9	15	29	66 62	101
8/30/2004 23:15	6	15			91
8/30/2004 23:30	3	12	27	64	91
8/30/2004 23:45	13	17	23	64 59	87
8/31/2004 23:45	3	6	25	59	90
8/31/2004 0:00	6	10	25	45	75
8/31/2004 0:15	7	7	29	45	70 69
8/31/2004 0:45	10	9	26	32	58
8/31/2004 0:45	2	1	25	27	52
8/31/2004 1:15	4	5	23	22	45
8/31/2004 1:30	4	4	20	19	39
8/31/2004 1:45	7	8	17	18	35
8/31/2004 1:45	2	1	17	18	35
8/31/2004 2:15		1	13	14	27
8/31/2004 2:30	0	4	9	14	23
8/31/2004 2:45	4	2	6	8	14
8/31/2004 2:43	2	4	6	<u>°</u> 11	17
8/31/2004 3:15	0	4	6	14	20
8/31/2004 3:30	1	1	7	11	18
8/31/2004 3:45		3	,/ 5	12	17
8/31/2004 3:43	3	5	6	13	19
8/31/2004 4:15	1	0	7	9	16
8/31/2004 4:13	3	4	9	12	
8/31/2004 4:45		3			21
8/31/2004 4:45		6	11	12	23 23
o/31/∠004 5:00	2	6	10	13	ı 23

	15 min	15 min	pk hr	pk hr	pk hr
SW Blvd	NB1	NB2			
Time	Vehicles	Vehicles	NB1	NB2	NB1+NB2
8/31/2004 5:15	1	5	10	18	28
8/31/2004 5:30	6	4	13	18	31
8/31/2004 5:45	10	13	19	28	47
8/31/2004 6:00	12	15	29	37	66
8/31/2004 6:15	18	16	46	48	94
8/31/2004 6:30	5	24	45	68	113
8/31/2004 6:45	3	70	38	125	163
8/31/2004 7:00	8	79	34	189	223
8/31/2004 7:15	43	104	59	277	336
8/31/2004 7:30	71	67	125	320	445
8/31/2004 7:45	89	93	211	343	554
8/31/2004 8:00	74	117	277	381	658
8/31/2004 8:15	8	168	242	445	687
8/31/2004 8:30	94	114	265	492	757
8/31/2004 8:45	37	139	213	538	751
8/31/2004 9:00	102	139	241	560	801
8/31/2004 9:15	135	120	368	512	880
8/31/2004 9:30	120	123	394	521	915
8/31/2004 9:45	105	121	462.	503	965
8/31/2004 10:00	106	127	466	491	957
8/31/2004 10:15	52	58	383	429	812
8/31/2004 10:30	28	66	291	372	663
8/31/2004 10:45	36	62	222	313	535
8/31/2004 11:00	50	67	166	253	419
8/31/2004 11:15	57	76	171	271	442
8/31/2004 11:30	62	63	205	268	473
8/31/2004 11:45	69	78	238	284	522
8/31/2004 12:00	58	90	246	307	553
8/31/2004 12:15	95	93	284	324	608
8/31/2004 12:30	101	99	323	360	683
8/31/2004 12:45	75	106	329	388	717
8/31/2004 13:00	95	118	366	416	782
8/31/2004 13:15	84	95	355	418	773
8/31/2004 13:30	78	74	332	393	725
8/31/2004 13:45	74	81	331	368	699
8/31/2004 14:00	62	76	298	326	624
8/31/2004 14:15	69	67	283	298	581
8/31/2004 14:30	68	68	273	292	565
8/31/2004 14:45	66	77	265	288	553
8/31/2004 15:00	63	71	266	283	549
8/31/2004 15:15	50	92	247	308	555
8/31/2004 15:30	51	90	230	330	560
8/31/2004 15:45	72	117	236	370	606
8/31/2004 16:00	59	76	232	375	607
8/31/2004 16:15	59	86	241	369	610
8/31/2004 16:30	49	78	239	357	596

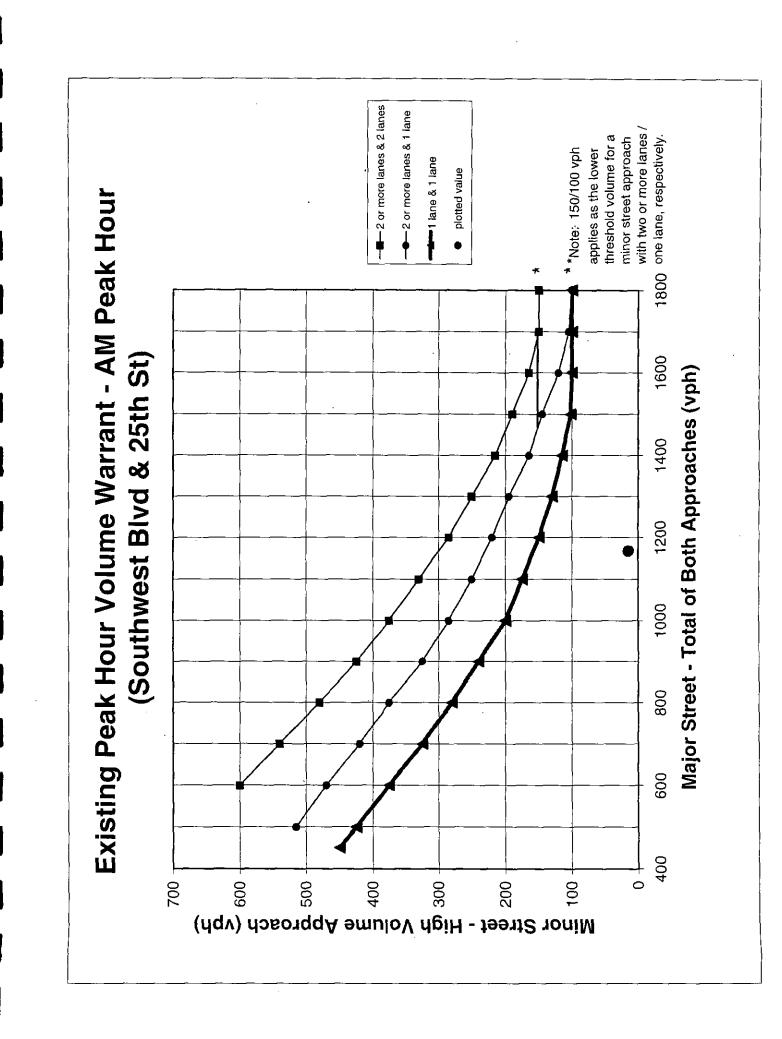
	15 min	15 min	pk hr	pk hr	pk hr
SW Blvd	SB1	SB2			
Time	Vehicles	Vehicles	SB1	SB2	SB1+SB2
8/30/2004 16:45	18	16	88	330	418
8/30/2004 17:00	23	215	86.	464	550
8/30/2004 17:15	54	244	116	597	713
8/30/2004 17:30	48	239	143	714	857
8/30/2004 17:45	47	210	172	908	1080
8/30/2004 18:00		187	179	880	1059
8/30/2004 18:15	15	150	140	786	926
8/30/2004 18:30		104	100	651	751
8/30/2004 18:45		66	63	507	570
8/30/2004 19:00		68	. 37	388	425
8/30/2004 19:15	1	56	23	294	317
8/30/2004 19:30		66	18	256	274
8/30/2004 19:45	2	55	10	245	255
8/30/2004 20:00		44	. 6	221	227
8/30/2004 20:15		52	8	217	225
8/30/2004 20:30		45	6	196	202
8/30/2004 20:45	0	32	4	173	177
8/30/2004 21:00		40	6	169	175
8/30/2004 21:15	2	39	5,	156	161
8/30/2004 21:30	3	41	7	152	159
8/30/2004 21:45	2	30	9	150	159
8/30/2004 21:43	0	21	7	131	138
8/30/2004 22:15	5	31	10	123	133
8/30/2004 22:13	6	24	13	106	119
8/30/2004 22:45	4	17	15	93	108
8/30/2004 22:43	5	18	20	90	110
8/30/2004 23:15	3	19	18		96
8/30/2004 23:30	3	18	15	72	87
8/30/2004 23:45	2	17	13	72	85
8/31/2004 0:00		10	10	64	74
8/31/2004 0:00	1	15	8	60	68
8/31/2004 0:13	3	10	8	52	60
8/31/2004 0:45	0	14	6	49	55
8/31/2004 0:45		7	5	46	
8/31/2004 1:15		7	5	38	43
8/31/2004 1:13		4	5	32	37
8/31/2004 1:45		7	5	25	30
8/31/2004 1:43		4	4	22	26
8/31/2004 2:15		3	4	18	22
8/31/2004 2:30		3	2	17	19
8/31/2004 2:45		1	2	11:	13
8/31/2004 2:43		4	3	11	14
8/31/2004 3:15		6	2	14	16
8/31/2004 3:15		8	2	19	21
8/31/2004 3:45		5	3	23	26
8/31/2004 4:00		1	2	20	22
8/31/2004 4:00		3	2	17	
8/31/2004 4:15		5	3		19
8/31/2004 4:30				14 14	17
		5	4		18
8/31/2004 5:00	0	9	4	22	26

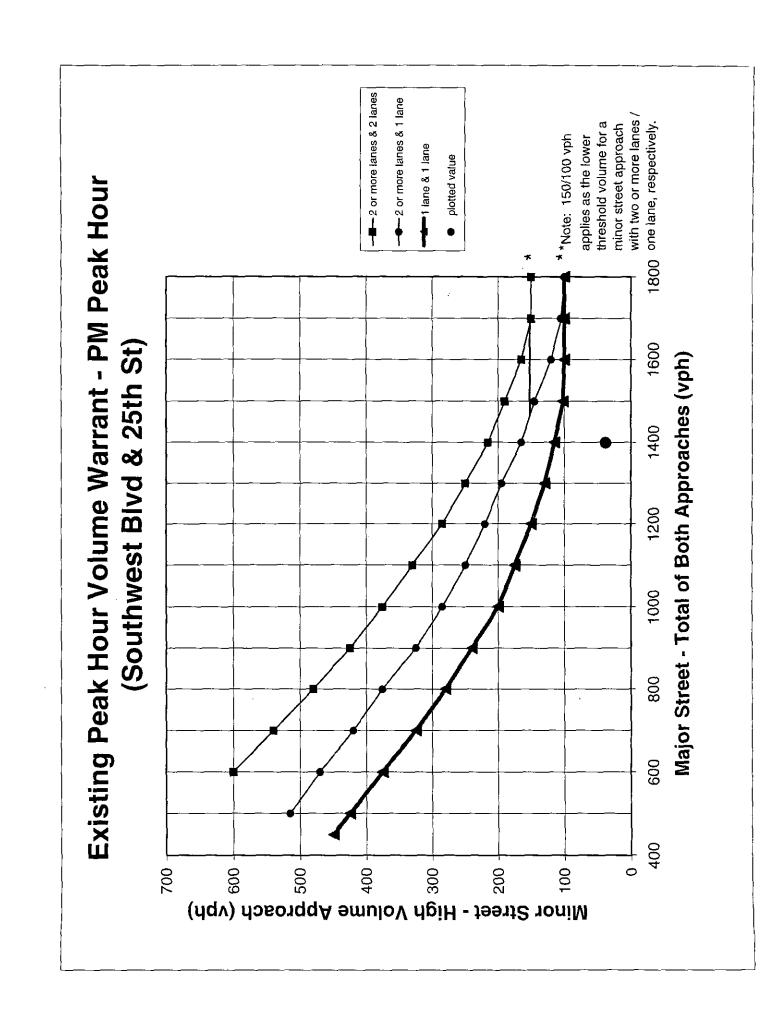
	15 min	15 min	pk hr	pk hr	pk hr
SW Blvd	SB1	SB2			
Time	Vehicles	Vehicles	SB1	SB2	SB1+SB2
8/31/2004 5:15	2	7	6	26	32
8/31/2004 5:30	1	4	5	25	30
8/31/2004 5:45	1	14	4	34	38
8/31/2004 6:00	1	12	5	37	42
8/31/2004 6:15	9	15	12	45	57
8/31/2004 6:30	13	20	24	61	85
8/31/2004 6:45	32	47	55	94	149
8/31/2004 7:00	36	64	90	146	236
8/31/2004 7:15		67	103	198	301
8/31/2004 7:30	18	62	108	240	348
8/31/2004 7:45	29	73	105	266	371
8/31/2004 8:00	32	73	101	275	376
8/31/2004 8:15	29	49	108	257	365
8/31/2004 8:30	16	54	106	249	355
8/31/2004 8:45	18	76	95	252	347
8/31/2004 9:00	15	51	78	230	308
8/31/2004 9:15	15	56	64	237	301
8/31/2004 9:30	11	61	59	244	303
8/31/2004 9:45		57	50	225	275
8/31/2004 10:00	14	62	49	236	285
8/31/2004 10:15	9	70	43	250	293
8/31/2004 10:30	17	69	49	258	307
8/31/2004 10:45	28	79	68	280	348
8/31/2004 11:00	25	74	79	292	371
8/31/2004 11:15	15	110	85	332	417
8/31/2004 11:30	18	103	86	366	452
8/31/2004 11:45	22	148	80	435	515
8/31/2004 12:00	19	127	74	488	562
8/31/2004 12:15	36	107	95	485	580
8/31/2004 12:30	22	89	99	471	570
8/31/2004 12:45	24	107	101	430	531
8/31/2004 13:00	26	112	108	415	523
8/31/2004 13:15	25	96	97	404	501
8/31/2004 13:30		89		404	506
8/31/2004 13:45		92	98	389	487
8/31/2004 14:00		80	97	357	" 454
8/31/2004 14:15		84	96	345	441
8/31/2004 14:30		103	92	359	451
8/31/2004 14:45		83	111	350	461
8/31/2004 15:00	26	95	112	365	477
8/31/2004 15:15		84	108	365	473
8/31/2004 15:30		103	114	365	479
8/31/2004 15:45	·	98		380	480
8/31/2004 16:00		81	99	366	465
8/31/2004 16:15		111	103	393	
8/31/2004 16:30		122		412	

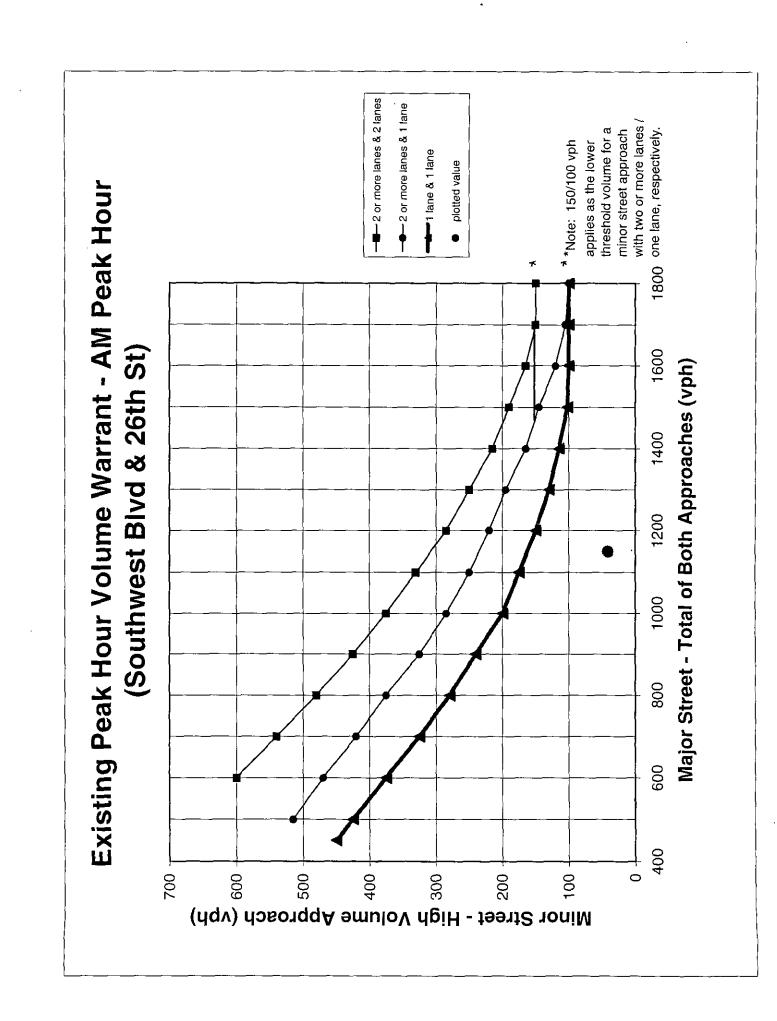
SW Blvd	Pea	k hour Volu	mes	Max
time period ending	NB	SB	NB+SB	######################################
8/30/2004 16:45	460	418	878	
8/30/2004 17:00	448	550	998	
8/30/2004 17:15	469	713	1182	
8/30/2004 17:30	488	857	1345	
8/30/2004 17:45	556	1080		<=PEAK: 4:45-5:45 PM
8/30/2004 18:00	536	1059	1595	(-) LAK: 4.40 0.40 1 W
8/30/2004 18:15		926	1393	
8/30/2004 18:30	404	751	1155	
8/30/2004 18:45	371	570	941	
8/30/2004 19:00	344	425	769	
8/30/2004 19:15	306	317	623	
8/30/2004 19:30		274	551	
8/30/2004 19:45	246	255	501	
8/30/2004 19:43	225	227	452	
8/30/2004 20:15	222	225	447	
8/30/2004 20:30	210	202	412	
8/30/2004 20:45	190	177		
8/30/2004 20:45			367	
	176	175	351	
8/30/2004 21:15	163	161	324	
8/30/2004 21:30	160	159	319	
8/30/2004 21:45	145	159	304	
8/30/2004 22:00	138	138	276	
8/30/2004 22:15	116	133	249	
8/30/2004 22:30	96	119	215	
8/30/2004 22:45	101	108	209	
8/30/2004 23:00	91	110	201	
8/30/2004 23:15	91	96	187	
8/30/2004 23:30	87	87	174	
8/30/2004 23:45	90	85	175	
8/31/2004 0:00	75	74	149	
8/31/2004 0:15	70	68	138	
8/31/2004 0:30	69	60	129	
8/31/2004 0:45	58	55	113	
8/31/2004 1:00	52	51	103	
8/31/2004 1:15	45	43	88	
8/31/2004 1:30	39	.37	76	
8/31/2004 1:45	35	30	65	
8/31/2004 2:00	35	26	61	
8/31/2004 2:15	27	22	49	<del></del>
8/31/2004 2:30	23	19	42	
8/31/2004 2:45	14	13	27	
8/31/2004 3:00	17	14	31	
8/31/2004 3:15	20	16	36	
8/31/2004 3:30	18	21	. 39	t
8/31/2004 3:45	17	26	43	
8/31/2004 4:00	19	22	41	
8/31/2004 4:15	16	19	35	
8/31/2004 4:30	21	17	38	
8/31/2004 4:45	23	18	41	
8/31/2004 5:00	23	26	49	

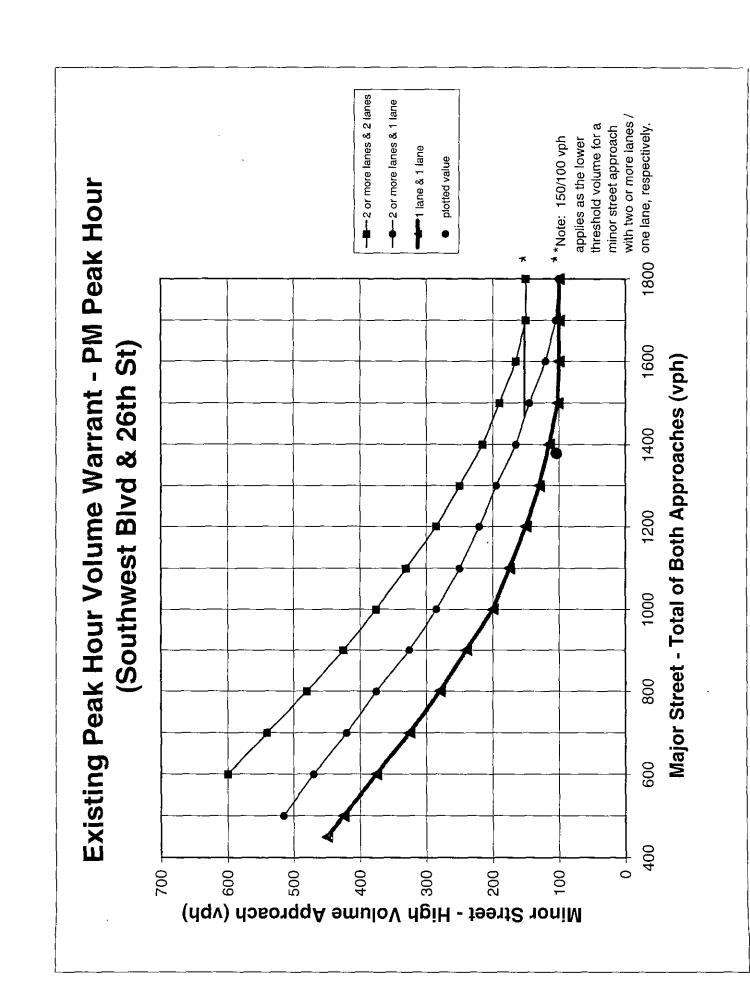
SW Blvd	Pea	k hour Volu	mes	Max
time period ending	NB	SB	NB+SB	1636
8/31/2004 5:15	28	32	60	
8/31/2004 5:30	31	30	61	
8/31/2004 5:45	47	38	85	
8/31/2004 6:00	66	42	108	
8/31/2004 6:15	94	57	151	
8/31/2004 6:30	113	85	198	
8/31/2004 6:45	163	149	312	
8/31/2004 7:00	223	236	459	
8/31/2004 7:15	336	301	637	
8/31/2004 7:30	445	348	793	
8/31/2004 7:45	554	371	925	
8/31/2004 8:00	658	376	1034	
8/31/2004 8:15	687	365	1052	
8/31/2004 8:30	757	355	1112	
8/31/2004 8:45	751	347	1098	
8/31/2004 9:00	801	308	1109	
8/31/2004 9:15	880	301	1181	
8/31/2004 9:30	915	303	1218	
8/31/2004 9:45	965	275	1240	
8/31/2004 10:00	957	285	1242	
8/31/2004 10:15	812	293	1105	
8/31/2004 10:30	663	307	970	
8/31/2004 10:45	535	348	883	
8/31/2004 11:00	419	371	790	
8/31/2004 11:15	442	417	859	
8/31/2004 11:30	473	452	925	
8/31/2004 11:45	522	515	1037	
8/31/2004 12:00	553	562	1115	
8/31/2004 12:15	608	580	1188	
8/31/2004 12:30	683	570	1253	
8/31/2004 12:45	717	531	1248	
8/31/2004 13:00	782	523	1305	
8/31/2004 13:15	773	501	1274	
8/31/2004 13:30		506	1231	
8/31/2004 13:45	699	487	1186	
8/31/2004 14:00	624	454	1078	
8/31/2004 14:15	581	441	1022	
8/31/2004 14:30	565	451	1016	
8/31/2004 14:45	553	461	1014	
8/31/2004 15:00	549	477	1026	- <del></del>
8/31/2004 15:15	555	473	1028	
8/31/2004 15:30	560	479	1039	
8/31/2004 15:45	606	480	1086	
8/31/2004 16:00			1072	
8/31/2004 16:15	610	496	1106	
8/31/2004 16:30		507	1103	

• Existing Signal Warrants









• Existing Reports

	TWO	WAY STOP	CONTROL	SUMMARY				
General Information	on		Site Infor	mation				
Analyst Agency/Co. Date Performed Analysis Time Period	CP Olsson As 08/18/200 Existing A	4	Intersection Jurisdiction Analysis Ye		SW Blvd & KC, MO 2004 AM			
Project Description 2								
East/West Street:			North/South	Street:				
Intersection Orientation	: North-South	77	Study Perio	d (hrs): 0.25		_		
Vehicle Volumes a	nd Adjustm	ents						
Major Street		Northbound			Southbound			
Movement	1	2	3	4	5	6		
		<del>                                     </del>	R		<del></del>	R		
Volume	0	716	120	19	313	0		
Peak-Hour Factor, PHF	1.00	0.92	0.92	0.92	0.92	1.00		
Hourly Flow Rate, HFR		778	130	20	340	0		
Percent Heavy Vehicles				3				
Median Type		Undivided						
RT Channelized	<del> </del>	T	T	1 0				
Lanes	0	2	0	1	2	0		
Configuration	<del>                                     </del>	T	TR	L	T	<del></del>		
Upstream Signal		0	<del>                                     </del>	<del></del>	0	<del>                                     </del>		
Minor Street	<del> </del>	Westbound	<del></del>	<del> </del>	Eastbound	<del></del>		
Movement	<del>  7</del>	8	9	10	11	12		
Movement	Ĺ	1	R	L.	<del>                                     </del>	R		
Volume	5	<del>                                     </del>	10	0	,	1 0		
Peak-Hour Factor, PHF		1.00	0.92	1.00	1.00	1.00		
Hourly Flow Rate, HFR		0	10	0	0	0		
Percent Heavy Vehicle		1 0	3	0	0	0		
	<del>}}3</del>	0	3	<del>}</del> -	0	<u> </u>		
Percent Grade (%)	<del> </del>		1	<del> </del>		<del></del>		
Flared Approach		N N	<u> </u>	<b>ļ</b>	N			
Storage		0	<del> </del>		0	<del></del>		
RT Channelized	<u> </u>		0		<u> </u>	0		
Lanes	0	0	0	0	0	0		
Configuration		LR			<u></u>	<u> </u>		
Delay, Queue Length,	and Level of	Service						
Approach	NB	SB	Westl	oound	Eas	tbound		
Movement	1	4	7 8	3 9	10	11 12		
Lane Configuration	<del></del>	L	LF		<del> </del>	<del>-` </del> -		
<del></del>	<del></del>				<del></del>			
v (vph)	<del>-</del>	20	1:		<del> </del>			
C (m) (vph)		739	36		<del> </del>			
v/c	<u>_</u>	0.03	0.0	)4				
95% queue length		0.08	0.1	13	<u></u>			
Control Delay		10.0+	15.	.4				
LOS		В	C		<del>                                     </del>			
Approach Delay	<del></del>		15.		<del> </del>	<del></del>		
Approach LOS	<del></del>		7.0.		+			
Approach LOS				<u></u>	_L			

	TWO	WAY STOP	CONTR	OL SU	JMMARY			<del></del>	
General Informatio	n		Site I	nform	ation				
Analyst Agency/Co. Date Performed Analysis Time Period	CP Olsson As 08/18/200 Existing F	)4	Interse Jurisdi Analys			KC, MO	SW Bivd & 25th St KC, MO 2004 PM		
	2003-1280								
East/West Street:		<del></del>		South S					
Intersection Orientation:			Study	Регюа (	hrs): 0.25		<del></del>		
Vehicle Volumes a	<u>nd Adjustm</u>								
Major Street	<del> </del>	Northbound	<del>,</del>			Southbo	und	·	
Movement	1 1	2	3		4	5		6	
V-1	0	T	R		L	7774		R	
Volume Peak-Hour Factor, PHF	1.00	569 0.92	22 0.92	-	34 0.92	774 0.92	<del></del>	0	
Hourly Flow Rate, HFR	0	618	23	<del></del>	36	841	<del></del>	1.00 0	
Percent Heavy Vehicles	0		23		30	041	<del></del>		
Median Type	<del>                                     </del>	<u> </u>	ــــــــــــــــــــــــــــــــــــــ	Undivid				<del></del>	
RT Channelized	<del> </del>	<del></del>	0	Unuivid	Jeu	1		0	
Lanes	0	2	0		1	2	<del>-  </del> -	$\frac{0}{0}$	
Configuration		<del></del>	TR		L	$\frac{2}{T}$		V	
Upstream Signal	<del></del>	1 0	<del>                                     </del>			0	<del></del>		
Minor Street		Westbound			<del></del>	Eastbou			
Movement	7	8	9		10	11	<u> </u>	12	
MOTORION.	<del> </del>	T	R		L	<del>                                     </del>		R	
Volume	16	0			0		0		
Peak-Hour Factor, PHF	0.92	1.00	0.92		1.00				
Hourly Flow Rate, HFR	17	0	23		0	0		1.00 0	
Percent Heavy Vehicles	3	0	3		0	0		0	
Percent Grade (%)		0				0			
Flared Approach	<u> </u>	N				N			
Storage		0	<u> </u>			ō			
RT Channelized	<del> </del>	<del>                                     </del>	0			<del></del>	<del></del>	0	
Lanes	0	0	0		0	0		0	
Configuration	<del>                                     </del>	LR	<b>†</b>			<del> </del>			
Delay, Queue Length,	and Level of	Service							
Approach	NB	SB		Vestbo	ınd	T	Eastbour	nd	
Movement	1	4	7	8	9	10	11	12	
Lane Configuration	<del></del>	L	<u> </u>	LR	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>		
v (vph)		36	-	40	<del></del>	+	<del> </del>	+	
					<del>-  </del>	<del> </del>	<del> </del>	<del> </del> -	
C (m) (vph)		933		323		<del> </del>			
v/c		0.04	<u> </u>	0.12		<del> </del>		<b></b>	
95% queue length	<u></u>	0.12		0.42	<b>_</b>	<b>-</b>		<b></b>	
Control Delay		9.0		17.7					
LOS		<u> </u>		С			<u> </u>		
Approach Delay				17.7					
Approach LOS				С					

	TWO	-WAY STOP	CONTR	OL SU	MMARY			
General Informatio	n		Site I	nform	ation			
Analyst Agency/Co. Date Performed Analysis Time Period	CP Olsson A 08/18/200 Existing A	04	Interse Jurisdi Analys	_		SW Blvd & 26th St KC, MO 2004 AM		
	-2003-1280							
East/West Street:				South S				
Intersection Orientation:	North-Sout	h	Study	Period (	hrs): 0.25			
Vehicle Volumes a	nd Adjustn	nents						_
Major Street		Northbound				Southbo	und	
Movement	1	2	3		4	5		6
	L	T	R		<u> </u>	T		R
Volume	0	811	21		14	304		0
Peak-Hour Factor, PHF	1.00	0.92	0.92		0.92	0.92		1.00
Hourly Flow Rate, HFR	0	881	22		15	330		0
Percent Heavy Vehicles	0				3			
Median Type		Undivided						
RT Channelized	<u> </u>		0					0
Lanes	0	2	0		11	2		0
Configuration		T	TR		L	T		
Upstream Signal		0				0		
Minor Street		Westbound		Eastbou			ınd	
Movement	7	8	9		10	11		12
	L	T	R		L	T		R
Volume	16	0	25		0	0		0
Peak-Hour Factor, PHF	0.92	1.00	0.92		1.00	1.00		1.00
Hourly Flow Rate, HFR	17	0	27		0	0		0
Percent Heavy Vehicles	3	0	3		0	0		0
Percent Grade (%)		0				0		
Flared Approach		N	T			N		
Storage	<del></del>	0				0		
RT Channelized	<del>†                                      </del>	+	0	<del></del> †		<del>ऻ</del> ──ं		0
Lanes	1 0	1 0	1 0	<del></del>		0		<del>0</del>
Configuration	<del> </del> -	LR LR	+	<del></del>		<del></del>	<del></del>	
Delay, Queue Length,	and lovel of						<u> </u>	
		SB	<del></del>	Westbou		<del></del>	Eastboun	<del></del>
Approach	NB 1							
Movement	1	4	7	8	9	10	11	12
Lane Configuration		L		LR		4	<u> </u>	<u> </u>
v (vph)		15	<u> </u>	44			1	<u> </u>
C (m) (vph)		742		334				
v/c		0.02		0.13				
95% queue length	<del>-</del>	0.06	<del></del>	0.45				
Control Delay		10.0-	<del>                                     </del>	17.4		<del> </del>	-	<del> </del>
			<del> </del>	C C	<del></del>	+	<del> </del>	<del>-{</del>
LOS		A				<del> </del>	<u> </u>	
Approach Delay		<u></u>	<b> </b> -	17.4		<del> </del>		
Approach LOS			L	C		_ <u>L</u>		

	TWO-	WAY STOP	CONTR	OL SU	JMMARY				
General Information	n		Site I	nform	ation			-	
Analyst Agency/Co. Date Performed Analysis Time Period	CP Olsson As 08/18/200 Existing P	4	Jurisdi	Intersection Jurisdiction Analysis Year			SW Blvd & 26th St KC, MO 2004 PM		
	-2003-1280			<u>.</u>	_				
East/West Street:				South S					
Intersection Orientation:	North-South	7	Study	Period (	hrs): 0.25				
Vehicle Volumes a	nd Adjustm								
Major Street		Northbound				Southbo	und		
Movement	1	2	3		4	5		6	
	<u>L</u>	Т	R		L	T		R	
Volume	0	574	15		33	757		0	
Peak-Hour Factor, PHF		0.92	0.92		0.92	0.92		1.00	
Hourly Flow Rate, HFR	0	623	16		35	822		0	
Percent Heavy Vehicles	0			1.1:11 1	3				
Median Type	<u> </u>	1		Undivid	ded	<del></del>			
RT Channelized			0					0	
Lanes	0	2	0		1	2		0	
Configuration		T	TR		L	T			
Upstream Signal		0				0			
Minor Street		Westbound				Eastbou	und		
Movement	7	8	9		10	11		12 R	
	L	Τ		R L		T			
Volume	87	0	17		0		0		
Peak-Hour Factor, PHF	·	1.00	0.92		1.00	1.00		1.00	
Hourly Flow Rate, HFR	94	0	18		0	0		0	
Percent Heavy Vehicles	3	0	. 3		0	0		0	
Percent Grade (%)		·o	<del></del>		·	0			
Flared Approach		N				N			
Storage		0				0			
RT Channelized			0					0	
Lanes	0	0	0		0	0		0	
Configuration		LR							
Delay, Queue Length,	and Level of	Service							
Approach	NB	SB	,	Westbou	and		Eastboun	d	
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		L		LR	<del>                                     </del>			<del>                                     </del>	
v (vph)	·	35		112			<del> </del>	+	
C (m) (vph)		934		218				+	
v/c		0.04	-			<del></del>	<del> </del>		
J				0.51		<del> </del>	<del>                                     </del>	+	
95% queue length		0.12	<del> </del>	2.64		<u> </u>	<del> </del>		
Control Delay		9.0		37.8			<b></b>		
LOS		A		E	<u> </u>				
Approach Delay				37.8					
Approach LOS				E					

	TWO	-WAY STOP	CONTR	OL SU	JMMARY				
General Information	on		Site I	nform	ation				
Analyst	CP		Interse	ection	·····	26th Stre	26th Street & Jarboe St.		
Agency/Co.	Olsson A	ssociates	Jurisd			KC, MO			
Date Performed	08/18/200	04	Analy	sis Year	-	2004 AN	1		
Analysis Time Period	Existing A	AM.							
Project Description 2	-2003-1280		<u>_</u>				<del></del>		
ast/West Street:			North/	South S	treet:				
ntersection Orientation	: East-West		Study	Period (	(hrs): 0.25				
Vehicle Volumes a	ınd Adjustn	nents			· • • • • • • • • • • • • • • • • • • •				
Major Street		Eastbound				Westbou	ınd		
Movement	1	2	3		4	5		6	
	L	T	R		L	T		R	
/olume	0	28	7		7	33		0	
Peak-Hour Factor, PHF		0.92	0.92		0.92	0.92		1.00	
Hourly Flow Rate, HFR		30	7		7	35_		0	
Percent Heavy Vehicles	0	<u> </u>			3		<u> </u>		
Median Type	<del> </del>		1 ^	Undivid	ded	<del></del> _			
RT Channelized			0			<del> </del>		0	
_anes	0	1	0 TD		0	1		0	
Configuration	<del>  -</del>	<del> </del>	TR		LT	<del> </del>	_		
Jpstream Signal		0	<u> </u>				0		
Minor Street	<u> </u>	Northbound			1.0	Southbound			
Movement	7	8	9		10	11		12	
	L L	T	R		<u>L</u>	T		R	
Volume	8	0	11		0	0		0	
Peak-Hour Factor, PHF		1.00	0.92		1.00	1.00		1.00	
Hourly Flow Rate, HFR		0	11		0	0			
Percent Heavy Vehicles	3	0	3		0	0	<u>i_</u>	_0	
Percent Grade (%)	<u> </u>	0				0	<del> </del>		
Flared Approach		N				N			
Storage		0	<u> </u>			0			
RT Channelized			0					0	
Lanes	0	0	0		0	0		0	
Configuration		LR							
Delay, Queue Length,	and Level of	Service							
Approach	EB	WB	1	Northbo	und	S	outhbou	nd	
Movement	1	4	7	8	9	10	11	12	
Lane Configuration		LT		LR				1	
/ (vph)		7		19				1	
C (m) (vph)		1567		980		†		<del>'\                                    </del>	
v/c	···-	0.00	<del></del>	0.02		+	<del></del>	<del>                                     </del>	
95% queue length	<del></del>	0.01		0.06	<del> </del>	<del>                                     </del>		+	
Control Delay	<u>.</u>	7.3	<del>                                     </del>	8.7	<del> -</del>	<del> </del>		+ -	
					<del></del> -	+	<del></del>	╅	
LOS		Α		A	<u> </u>	<del> </del>	L		
Approach Delay	. <del></del>		<u> </u>	8.7		<b>_</b>		- <u>-</u>	
Approach LOS			L	Α		1			

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		-WAY STOP							
General Information		<del></del>	Site I	nform	ation				
Analyst	CP		Interse				26th Street & Jarboe St.		
Agency/Co.		ssociates	Jurisdi			KC, MO			
Date Performed	08/18/20		Analys	sis Year		2004 PN	1		
Analysis Time Period	Existing I	PM							
	-2003-1280								
East/West Street:				South St					
ntersection Orientation	: East-West		Study I	Period (I	hrs): 0.25	<del></del>			
Vehicle Volumes a	ınd Adjustr	nents							
Major Street	Τ	Eastbound				Westboo	ınd		
Movement	1	2	3		4	5		6	
	L	T	R		L	T		R	
/olume	0	43	6		9	97		0	
Peak-Hour Factor, PHF		0.92	0.92		0.92	0.92		1.00	
Hourly Flow Rate, HFR		46	6		9	105		0	
Percent Heavy Vehicles	s	<u> </u>	<u> </u>		3	<u></u>			
Median Type		<del></del>	<del></del>	Undivid	led	<del></del>			
RT Channelized			0	<del></del>				0	
Lanes	0	1	0		0	1		0	
Configuration			TR		<u>LT</u>				
Jpstream Signal	<u> </u>	0	<u> </u>			0			
Minor Street		Northbound					Southbound		
Movement	7	8	9		10	11		12	
	L_	T	R		<u>L</u>	T_	L_	R	
Volume	8	0	8		0	0		0 1.00	
Peak-Hour Factor, PHF		1.00	0.92		1.00	<del></del>	1.00		
Hourly Flow Rate, HFR		0	8		0	0		0	
Percent Heavy Vehicle	s 3	0	3		0	0		0	
Percent Grade (%)		0 -				0			
Flared Approach		N				N N			
Storage	Ţ	0		Ţ		0			
RT Channelized			0			<u> </u>		0	
Lanes	0	ō	0		0	0		0	
Configuration		LR	1			1			
Delay, Queue Length,	and I evel of								
Approach	EB	WB	N	Vorthbou	ınd	T	outhbour	nd	
Movement	1	4	7	8	9	10	11	12	
			<del></del>		<del></del> -	1 10	<del>  ''</del> -	+ '2	
Lane Configuration		LT	<u> </u> -	LR		<del></del>	<del> </del>	+	
v (vph)		9	L	16		<b></b>	<u> </u>		
C (m) (vph)		1548		902		1		1	
v/c		0.01		0.02					
95% queue length		0.02		0.05					
Control Delay		7.3		9.1		1			
LOS		A		A	<del> </del>	<del> </del>		<del>                                     </del>	
Approach Delay			<del></del>	9.1		+	<u> </u>	<del></del>	
Approacti Delay			ł <u>.</u>	. J. I		_1			

<del></del>	TWO	-WAY STOP	CONTR	OL S	UMMARY				
General Information	n	<del></del>	Site II	nforn	nation				
Analyst	ICP		Interse	ection		26th & B	elleview		
Agency/Co.	Olsson A.	ssociates	Jurisdi			KC, MO			
Date Performed	08/18/200	04	Analys	is Yea	ır	2004 AN	1		
Analysis Time Period	Existing A	1M							
Project Description 2	-2003-1280								
East/West Street:			North/S						
Intersection Orientation	: East-West		Study F	Period	(hrs): 0.25				
Vehicle Volumes a	nd Adjustn	nents							
Major Street		Eastbound				Westbou	ınd		
Movement	1	2	3		4	5		6	
	L	Т	R		L	T		R	
Volume	0	22	17		14	25		3	
Peak-Hour Factor, PHF		0.92	0.92	<del> </del>	0.92	0.92		0.92	
Hourly Flow Rate, HFR		23	18	<del></del>	15	27	+	3	
Percent Heavy Vehicles	3			المالية	3 idad	<u> </u>			
Median Type	<del> </del>			Undiv	iueu	<del></del>	<del>-,-</del>		
RT Channelized	1 0	<del></del>	0 0	<b></b> }	0	+	<del></del>	0	
Lanes	LTR	1	<del>                                     </del>		LTR	1	<del></del>	0	
Configuration Upstream Signal	LIR	0	┼──		LIK	1 0			
			<del></del>	<del></del>					
Minor Street	7	Northbound	1 0	$\dashv$	Southbound		una T	12	
Movement	<del></del>	8 T	9 R	-+	10 L	11 T			
Values	L 0	- 0	0		0	8	<del></del>	R	
Volume Peak-Hour Factor, PHF		0.92	0.92	~—┼	0.92	0.92	<del></del>	<i>15</i> 0.92	
Hourly Flow Rate, HFR		0.92	0.92	$\dashv$	0.92	8	<del></del>	16	
Percent Heavy Vehicles		2	2	-+	3	3		3	
Percent Grade (%)	<del></del>	0	<u> </u>	$\dashv$	<del></del>	0		<del></del>	
Flared Approach	<del></del>	T N	Т	<del></del>		TN	<del></del>		
	<del></del>	0	╂───	┷		1 0			
Storage	<del>- </del> -	<del>                                     </del>	<del> </del>						
RT Channelized			0	}		<del> </del>	}	0	
Lanes	0	0	0		0	1 170	<del> </del>	0	
Configuration			<u> </u>			LTR			
Delay, Queue Length,								<del></del>	
Approach	EB	WB	<del></del> ,	lorthbo			outhboun		
Movement	11	4	7	8	9	10	11	12	
Lane Configuration	LTR	LTR					LTR	<u> </u>	
v (vph)	0	15					24	<u> </u>	
C (m) (vph)	1576	1562					939		
v/c	0.00	0.01					0.03		
95% queue length	0.00	0.03					0.08	1	
Control Delay	7.3	7.3					8.9		
LOS	A	A			_	<del>- </del>	A	1	
Approach Delay					l <u>.</u>	<del>                                     </del>	8.9		
Approach LOS			<del> </del> -			<del>                                     </del>			
Approach LOG			L						

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<del> </del>	TWO	-WAY STOP	CONTR	OL S	UMMARY						
General Informati	on		Site I	nforn	nation						
Analyst CP			Interse			26th & B	26th & Belleview				
Agency/Co.		Olsson Associates		Jurisdiction			KC, MO				
Date Performed		08/18/2004		Analysis Year			2004 PM				
Analysis Time Period	Existing	PM									
Project Description	2-2003-1280		——————————————————————————————————————								
East/West Street:			North/	South S	Street:						
Intersection Orientation	n; East-West	East-West			Study Period (hrs): 0.25						
Vehicle Volumes	and Adjustr	nents	-			_					
Major Street		Eastbound									
Movement	1	2	3		4	5		6			
	L	Ť	R		L	T		R			
Volume	1	37	14		15	69		2			
Peak-Hour Factor, PH		0.92	0.92		0.92	0.92		0.92			
Hourly Flow Rate, HFF		40	15		16	74		2			
Percent Heavy Vehicle	s 3				3	<u></u>					
Median Type	<del></del>		Undivided								
RT Channelized			0			<u> </u>		0			
Lanes	0	1	0		0	1		0			
Configuration	LTR		<del>                                     </del>		LTR	<del></del>					
Upstream Signal	<u> </u>	0	<u> </u>			0					
Minor Street		Northbound			Southbound		und				
Movement	7	8	9		10	11	_	12			
	L	T	R		L	T		R			
Volume	0	0		0 6		13		37			
Peak-Hour Factor, PH		0.92	0.92		0.92	0.92		0.92			
Hourly Flow Rate, HFF		0	0		<u>6</u> 3	14		40			
Percent Heavy Vehicle	s 2			2		3		3			
Percent Grade (%)	<u> </u>	0		,		0					
Flared Approach		N	1			N					
Storage		0				0					
RT Channelized			0					0			
Lanes	0	0	0		0	1		0			
Configuration					_	LTR					
Delay, Queue Length	, and Level of	Service									
Approach	EB	WB	Northbound		S	outhboun	d				
Movement	1	4	7	8	9	10	11	12			
Lane Configuration	LTR	LTR					LTR	1			
v (vph)	1	16					60				
C (m) (vph)	1517	1544					890				
v/c	0.00	0.01				1	0.07	1			
95% queue length	0.00	0.03		<b>-</b>	<del>                                     </del>	1	0.22	<del> </del> -			
Control Delay	7.4	7.4	<del>                                     </del>	<del> </del>		<del> </del>	9.3	<del>                                     </del>			
LOS	A A	A A	<u> </u>	<del>                                     </del>		<del> </del>		<del> </del>			
<u></u>			<u> </u>	<del>                                     </del>				<u> </u>			
Approach Delay			<del> </del>			<del> </del>	9.3				
Approach LOS			<u></u> _				A				

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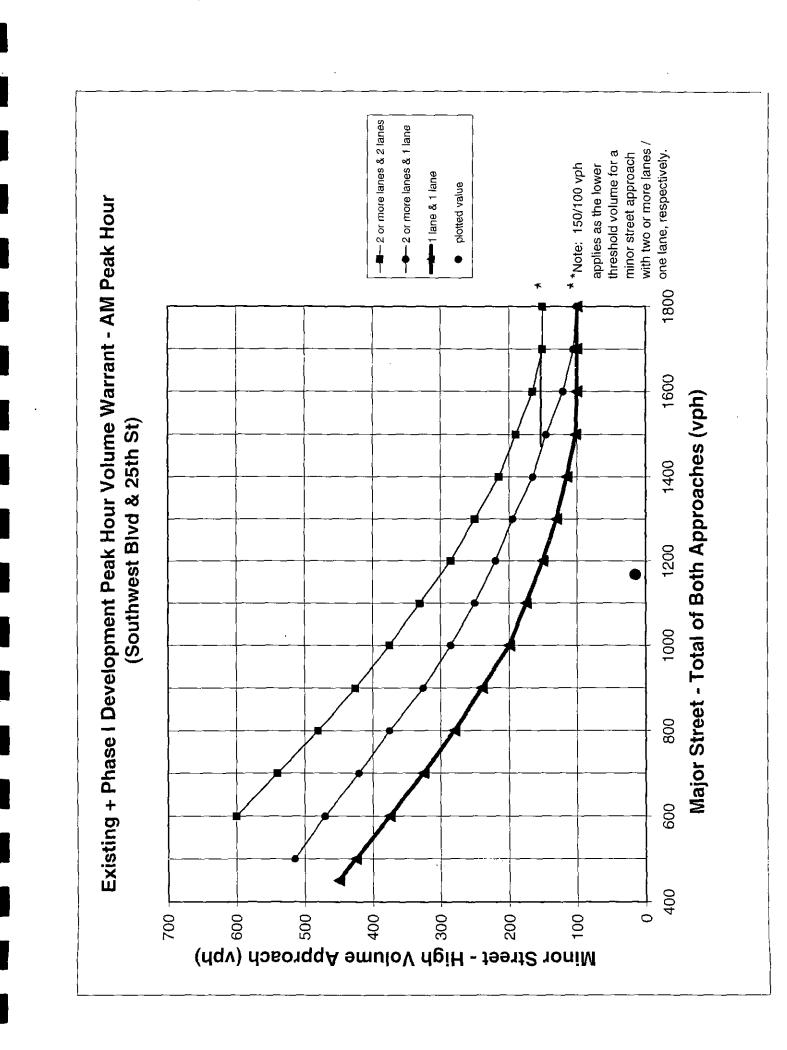
			To:	<del></del> -						
General Information				Site Information						
Analyst	CP			Intersection			25th & Belleview			
Agency/Co.	Olsson Associates			Jurisdiction		KC, MO				
Date Performed	08/18/2004		Analysis Year			2004 AM				
Analysis Time Period	Existing A	AM				<u> </u>		<del></del> _		
	2003-1280		h () //	0 - 4 - 0	4					
ast/West Street:	Foot Wort			South S						
ntersection Orientation:			Siddy	Period (	hrs): 0.25					
/ehicle Volumes a	nd Adjustn		<del></del>							
Major Street	Eastbound		<del></del>			Westbound				
Movement	1	2 T	3		4	5		6		
/olume	L	132	R 7		L 18	T 15	<del></del>	R 0		
Peak-Hour Factor, PHF	1.00	0.92	0.92	<del>,  -</del>	0.92	0.92	<del>-  -</del>	1.00		
Hourly Flow Rate, HFR	0	143	7		19	16		0		
Percent Heavy Vehicles	0		<del></del>	<del>-                                    </del>	3	<del>                                     </del>	<del>- -</del>			
Median Type	<del> </del>		Undivided			<u> </u>				
RT Channelized		1	0			<del></del>	Г	0		
anes	0	1	0		0	1-1		0		
Configuration			TR		LT					
Jpstream Signal		0	<del> </del>			<del></del>				
Minor Street	Northbound				Southbound					
Movement	7	8	7 9		10	11				
<u> </u>	L	Т	R		L	Т		R		
/olume	0	0	1		0	0		0		
Peak-Hour Factor, PHF	0.92	1.00	0.92		1.00	1.00		1.00		
Hourly Flow Rate, HFR	0	0	1		0	0		0		
Percent Heavy Vehicles	3	0	3		0	0		0		
Percent Grade (%)		0				0				
Flared Approach		N				N				
Storage		0	1	<del></del>		0	_			
RT Channelized			0			<del>-+</del>		0		
anes	0	0	0		0	0		<del>-</del> 0		
Configuration	<del> </del>	LR	<del>1 – –</del>		<del></del>	╅		_ <del>`</del>		
	and Lovel of		<del></del>				<del></del>			
Approach	y, Queue Length, and Level of Service oach EB WB		Northbound		und	Southbound				
Movement	1	4	7	8	9	10	11	12		
_ane Configuration	'	LT	<del> '</del> -		+ =	10	'-	+ '2		
				LR.		<del> </del>		<del> </del>		
/ (vph)		19	<b> </b>	1	<del></del>	<del></del>	<b> </b> -	-}		
C (m) (vph)		1425		898	<del>- </del>	<del></del>		<del> </del>		
v/c		0.01	L	0.00		<u> </u>				
95% queue length		0.04		0.00						
Control Delay		7.6		9.0						
_OS		Α		A						
Approach Delay				9.0		1	<del></del>			
Approach LOS				A		<del></del>				

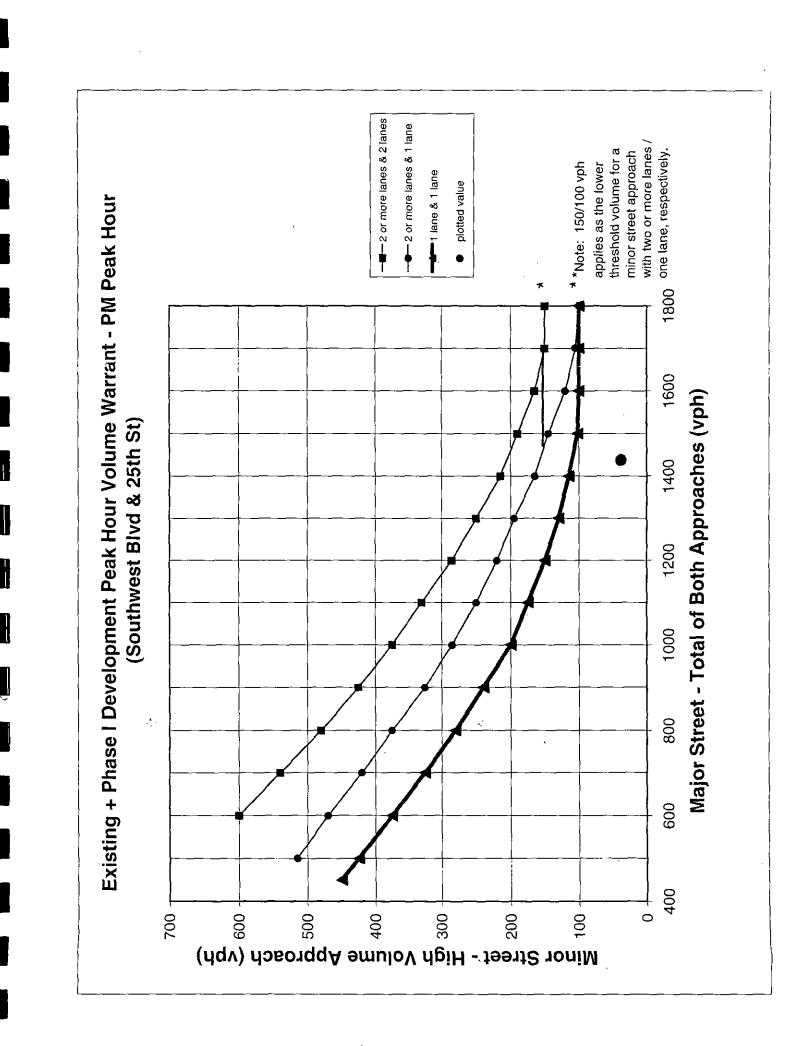
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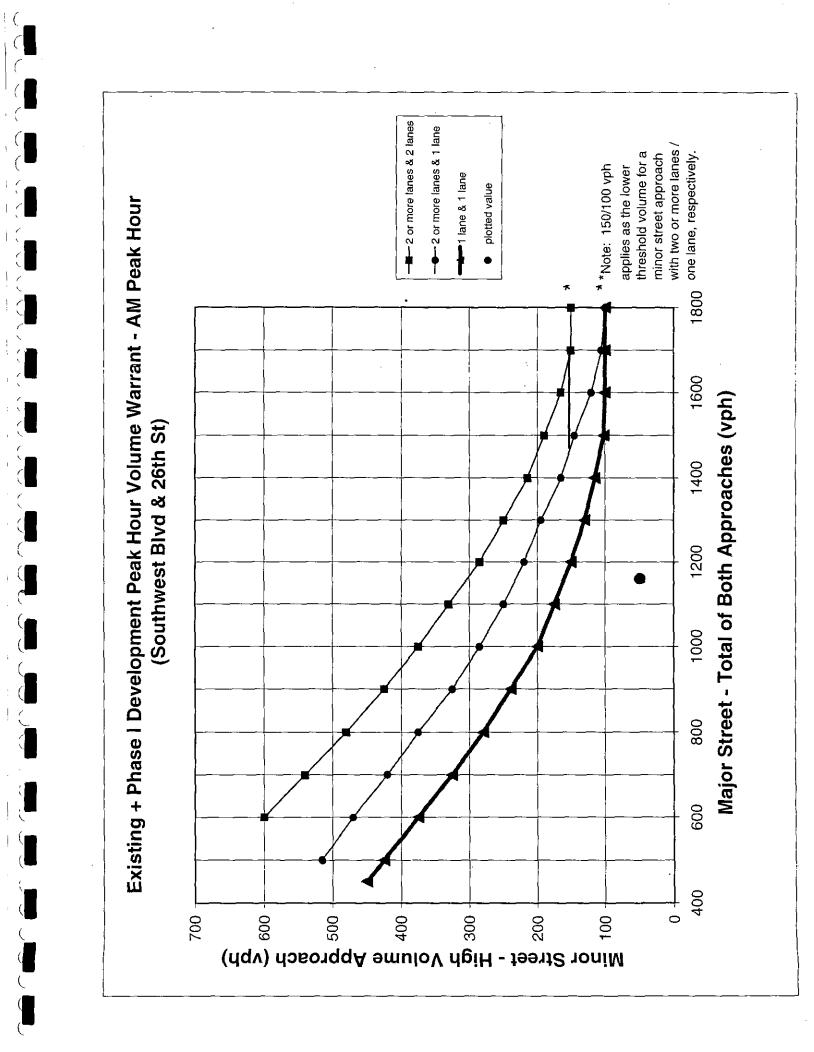
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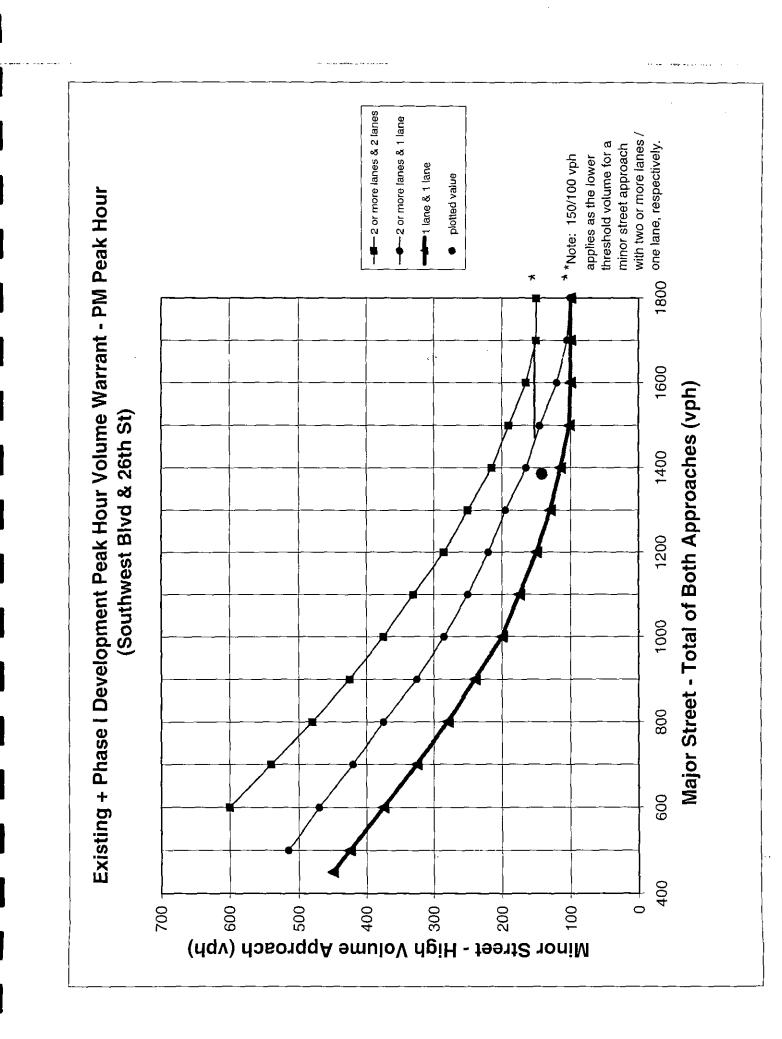
Version 4.1b

Existing + Phase I Development Signal Warrants









• Existing + Phase I Development Reports

	TWO	WAY STOP	CONTR	OL SI	JMMAR'	Y					
General Information				Site Information							
Analyst Agency/Co. Date Performed Analysis Time Períod	CP Olsson As 08/18/200 Existing +	Interse Jurisd Analys			SW Blvd KC, MO 2004 AN						
	-2003-1280										
East/West Street:			North/	North/South Street:							
Intersection Orientation:	North-South	7	Study	Period	(hrs): 0.2	5					
Vehicle Volumes a	nd Adjustm	ents									
Major Street	Northbound				Southboun						
Movement	1	2	3		4	5		6			
		T	R		L	T		R			
Volume	0	719	133		29	313		0			
Peak-Hour Factor, PHF		0.92	0.92		0.92	0.92		1.00			
Hourly Flow Rate, HFR	0	781	144		31	340		0			
Percent Heavy Vehicles	0	<u> </u>			3						
Median Type	Undivided 0 0										
RT Channelized	<u> </u>	<u> </u>	0								
Lanes	0	2	0		1	2		0			
Configuration		T	TR		L		T				
Upstream Signal	<u> </u>	0			0	0					
Minor Street					Eastbound						
Movement	7	8	9		10	11	11				
	] L	Т	R		L	T					
Volume	5	0	10		0	0		0			
Peak-Hour Factor, PHF	0.92	1.00	0.92		1.00	1.00		1.00			
Hourly Flow Rate, HFR	5	0	10		0	0		0			
Percent Heavy Vehicles	3	0	3	3 0		0	0				
Percent Grade (%)		0				0					
Flared Approach	T	N	1			N					
Storage		0	1			0					
RT Channelized	<del>                                     </del>		0								
Lanes	0	0	0		0	0		0			
Configuration	†	LR	<del>                                     </del>								
Delay, Queue Length,	and Level of	Service									
Approach	NB	SB		Westbo	und		Eastboun	d			
Movement	1	4	7	8	9	10	11	12			
Lane Configuration	<del>-</del>		<del></del>	LR	╌	<del></del>	╁╌╌	<del>                                     </del>			
		31	<del></del>	15	+	<del></del>	┼──	<del> </del>			
v (vph)					<del></del>		<del> </del>	<del> </del>			
C (m) (vph)		728	<b> </b> -	347			<del>[</del>	<del> </del>			
v/c		0.04	<u> </u> _	0.04		<del></del>	ļ	<del> </del>			
95% queue length		0.13	0.14			<u> </u>	1				
Control Delay	<u>_</u>	10.2	<u> </u>	15.8							
LOS		В		С			<u> </u>				
Approach Delay				15.8							
Approach LOS				С		<u> </u>					

11/00/0004