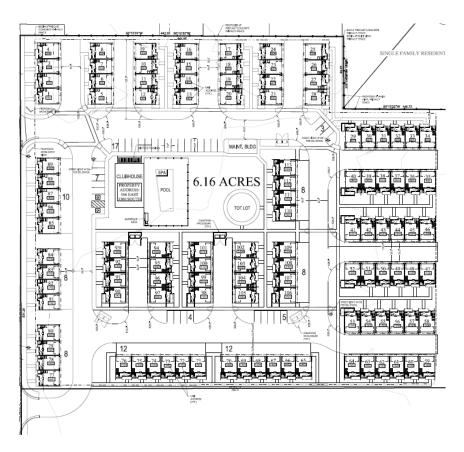


Wasatch Granite Townhomes - Update

Traffic Impact Study



South Salt Lake City, Utah

February 2019

UT18-1209



EXECUTIVE SUMMARY

This study addresses the traffic impacts associated with the proposed Wasatch Granite Townhomes development located in South Salt Lake, Utah. The proposed project is located south of 3300 South on the east side of the old Granite High School.

Included within the analyses for this study are the traffic operations and recommended mitigation measures for existing conditions and plus project conditions (conditions after development of the proposed project) at key intersections and roadways near the site. Future 2024 conditions were also analyzed.

The evening peak hour level of service (LOS) was computed for each study intersection. The results of this analysis are shown in Table ES-1. Recommended storage lengths are shown in Table ES-2.

TABLE ES-1 LOS Analysis - Evening Peak Hour South Salt Lake - Wasatch Granite Townhomes TIS									
		Level	of Service (Sec	/Veh) ¹					
Intersection	Existing (2018) Background	Backgroung -							
500 East / 3300 South	B (19.3)	B (19.5)	C (23.5)	C (24.1)	C (24.0)				
540 East / 3300 South	C (22.0) / SB	C (21.7) / SB	C (19.1) / SB	C (22.9) / SB	C (22.1) / SB				
700 East / 3300 South	E (55.3)	E (55.7)	E (79.4)	D (50.5)	D (51.0)				
3360 South / 500 East	A (4.3) / WB	A (3.7) / WB	A (7.5) / WB	A (7.6) / WB	A (7.6) / WB				
East Access / 3300 South ²	-	C (15.7) / NB	-	-	C (16.5) / NB				
West Access / 3300 South ²	-	B (12.3) / NB	-	-	C (18.5) / NB				

^{1.} Intersection LOS and delay (seconds/vehicle) values represent the overall intersection average for roundabout, signalized, all-way stop controlled intersections and the worst approach for all other unsignalized intersections.

Source: Hales Engineering, June 2018

^{2.} This intersection is a project access and was only analyzed in "plus project" scenarios.



TABLE ES-2 Recommended Storage Lengths South Salt Lake - Wasatch Granite Townhomes TIS Storage Length (feet) Southbound Intersection Northbound Eastbound Westbound LT LT RT LT RT LT RT RT 700 East / 3300 South 250 250 East Access / 3300 South2 100 West Access / 3300 South2 100 Source: Hales Engineering, June 2018



SUMMARY OF KEY FINDINGS/RECOMMENDATIONS

The following is a summary of key findings and recommendations:

- All study intersections are currently operating at an acceptable LOS during the evening peak hour in existing (2018) background conditions except 700 East / 3300 South.
 - The average delay at the 700 East / 3300 South intersection is approximately 55.3 seconds of delay per vehicle. The D/E threshold is 55 seconds of delay per vehicle. The delay is very close to being acceptable. Potential mitigation measures could include implementation of a longer cycle length to allow more green time for all approaches or adding right-turn pockets in the east- and westbound directions.
- The development will consist of residential townhomes.
 - The East and West Accesses onto 3300 South do not meet access spacing requirements and will therefore require a variance from UDOT.
 - O According to Administrative Rule R930-6, the East Access will require a left-turn deceleration lane in the westbound direction. There is already a center two-way left-turn lane on 3300 South that will function as the left-turn deceleration lane for this access.
- All study intersections are anticipated to operate at an acceptable LOS during the evening peak hour in the existing (2018) with project traffic added except 700 East / 3300 South.
 - o The average delay is not anticipated to change much with the addition of project traffic, with approximately 55.7 seconds of delay per vehicle. The D/E threshold is 55 seconds of delay per vehicle. The delay is very close to being acceptable. Potential mitigation measures could include implementation of a longer cycle length to allow more green time for all approaches or adding right-turn pockets in the east- and westbound directions.
- All study intersections are anticipated to operate at an acceptable LOS during the evening peak hour in future (2024) background except 700 East / 3300 South.
 - It is recommended that right-turn pockets be constructed in the east- and westbound directions. This improvement is necessary due to background traffic growth.
 - With the addition of the right-turn pockets, all intersections are anticipated to perform at acceptable LOS.
 - Left-turn storage at 700 East / 3300 South is anticipated to be adequate for the north-, south-, and eastbound directions. The eastbound left-turn storage can overflow into the existing two-way left-turn lane.
- A BRT route is planned to be built along 3300 South as a phase two project. A phase two project can be built sometime between 2024 and 2034.



- All study intersections are anticipated to operate at acceptable LOS during the evening peak hour in future (2024) plus project conditions.
- An additional analysis was completed at the 500 East / 3300 South intersection evaluating the northbound approach with and without a right-turn pocket.
 - This analysis included the proposed Wasatch Granite Townhomes, Granite Legacy Subdivision, and a future library.
 - The LOS at 500 East / 3300 South was a LOS C for both analyses.
 - The northbound queue length without the right-turn pocket is anticipated to be approximately 275 feet.
 - The northbound queue length with the right-turn pocket is anticipated to be approximately 200 feet.
- It is recommended that a northbound right-turn pocket be constructed if the library access is located within 300 feet of the 500 East / 3300 South intersection.
 - This is to reduce the chances that the future library accesses are not blocked by queues.



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I. INTRODUCTION

A. Purpose

This study addresses the traffic impacts associated with the proposed Wasatch Granite Townhome development located in South Salt Lake, Utah. The proposed project is located South of 3300 South on the east side of the old Granite High School. Figure 1 shows a vicinity map of the proposed development.

Included within the analyses for this study are the traffic operations and recommended mitigation measures for existing conditions and plus project conditions (conditions after development of the proposed project) at key intersections and roadways near the site. Future 2024 conditions were also analyzed.



Figure 1 Vicinity Map Showing the Project Location in South Salt Lake, Utah



B. Scope

The study area was defined based on conversations with the development team. This study was scoped to evaluate the traffic operational performance impacts of the project on the following intersections:

- 500 East / 3300 South
- 540 East / 3300 South
- 700 East / 3300 South
- 500 East / 3360 South

C. Analysis Methodology

Level of service (LOS) is a term that describes the operating performance of an intersection or roadway. LOS is measured quantitatively and reported on a scale from A to F, with A representing the best performance and F the worst. Table 1 provides a brief description of each LOS letter designation and an accompanying average delay per vehicle for both signalized and unsignalized intersections. Figure 2 provides a visual representation of each LOS letter designation.

The <u>Highway Capacity Manual (HCM)</u>, 6th Edition methodology was used in this study to remain consistent with "state-of-the-practice" professional standards. This methodology has different quantitative evaluations for signalized and unsignalized intersections. For signalized and all-way stop intersections, the LOS is provided for the overall intersection (weighted average of all approach delays). For all other unsignalized intersections LOS is reported based on the worst approach.

D. Level of Service Standards

For the purposes of this study, a minimum overall intersection performance for each of the study intersections was set at LOS D. However, if LOS E or F conditions exist, an explanation and/or mitigation measures will be presented. An LOS D threshold is consistent with "state-of-the-practice" traffic engineering principles for urbanized areas.



Table 1 Level of Service Description

Level of Service	Description of Traffic Conditions	Average Delay (seconds/vehicle)
	Signalized Intersections	Overall Intersection
А	Extremely favorable progression and a very low level of control delay. Individual users are virtually unaffected by others in the traffic stream.	0 ≤ 10.0
В	Good progression and a low level of control delay. The presence of other users in the traffic stream becomes noticeable.	> 10.0 and ≤ 20.0
С	Fair progression and a moderate level of control delay. The operation of individual users becomes somewhat affected by interactions with others in the traffic stream.	>20.0 and ≤ 35.0
D	Marginal progression with relatively elevated levels of control delay. Operating conditions are noticeably more constrained.	> 35.0 and ≤ 55.0
Е	Poor progression with unacceptably elevated levels of control delay. Operating conditions are at or near capacity.	> 55.0 and ≤ 80.0
F	Unacceptable progression with forced or breakdown operating conditions.	> 80.0
	Unsignalized Intersections	Worst Approach
А	Free Flow / Insignificant Delay	0 ≤ 10.0
В	Stable Operations / Minimum Delays	>10.0 and ≤ 15.0
С	Stable Operations / Acceptable Delays	>15.0 and ≤ 25.0
D	Approaching Unstable Flows / Tolerable Delays	>25.0 and ≤ 35.0
Е	Unstable Operations / Significant Delays Can Occur	>35.0 and ≤ 50.0
F	Forced Flows / Unpredictable Flows / Excessive Delays Occur	> 50.0
Source: Hales	Engineering Descriptions, based on Highway Capacity Manu	ual (HCM) 6th Edition

Source: Hales Engineering Descriptions, based on <u>Highway Capacity Manual (HCM)</u>, 6th Edition Methodology (Transportation Research Board, 2016)



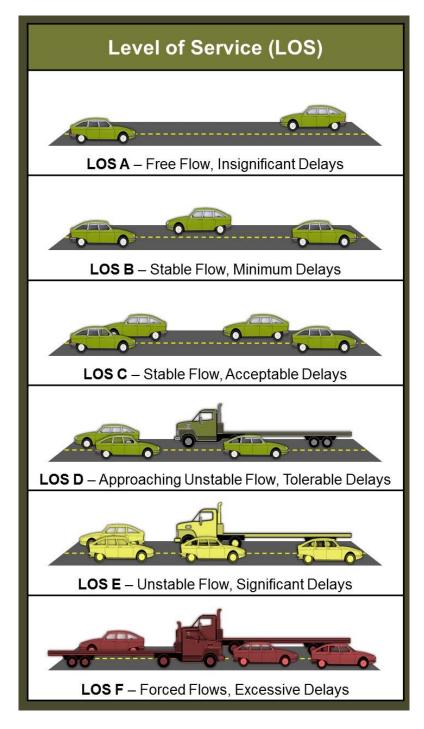


Figure 2 LOS Letter Designation



II. EXISTING (2018) BACKGROUND CONDITIONS

A. Purpose

The purpose of the background analysis is to study the intersections and roadways during the peak travel periods of the day with background traffic and geometric conditions. Through this analysis, background traffic operational deficiencies can be identified and potential mitigation measures recommended. This analysis will provide a baseline condition that may be compared to the build conditions to identify the impacts of the development.

B. Roadway System

The primary roadways that will provide access to the project site are described below:

3300 South (SR-171) – is a state-maintained roadway (classified by UDOT access management standards as a "Regional Priority – Urban Importance" facility, or access category 5 roadway). 3300 South has two travel lanes in each direction separated by a two-way left-turn lane. As identified and controlled by UDOT, a "Regional Priority – Urban Importance" access classification identifies minimum signalized intersection spacing of one-half mile (2,640 feet), minimum unsignalized street spacing of 660 feet, and minimum driveway spacing of 350 feet. The posted speed limit on 3300 South is 35 mph.

700 East (SR-71) – is a state-maintained roadway (classified by UDOT access management standards as a "Regional Priority – Urban Importance" facility, or access category 5 roadway). 700 East has four travel lanes in each direction separated by a raised median north of 3300 South and a two-way left-turn lane south of 3300 South. As identified and controlled by UDOT, a "Regional Priority – Urban Importance" access classification identifies minimum signalized intersection spacing of one-half mile (2,640 feet), minimum unsignalized street spacing of 660 feet, and minimum driveway spacing of 350 feet. The posted speed limit on 700 East is 45 mph.

<u>500 East</u> – is a city-maintained roadway. 500 East has one travel lane in each direction with bike lanes and parking allowed on both sides. The posted speed limit is 30 mph in the study area.

C. Traffic Volumes

Weekday morning (7:00 to 9:00 a.m.) and evening (4:00 to 6:00 p.m.) peak period traffic counts were performed at the following intersections:

- 500 East / 3300 South
- 540 East / 3300 South
- 700 East / 3300 South



• 500 East / 3360 South

The counts were performed on Tuesday, March 20, 2018. The morning peak hour was determined to be between 8:00 and 9:00 a.m. and the evening peak hour was determined to be between 4:00 and 5:00 p.m. The evening peak hour volumes were approximately 45% higher than the morning peak hour volumes. Therefore, the evening peak hour volumes were used in the analysis to represent the worst-case conditions. Detailed count data are included in Appendix A.

Figure 3 shows the existing evening peak hour volumes as well as intersection geometry at the study intersections.

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D. Level of Service Analysis

Using Synchro/SimTraffic, which follow the <u>Highway Capacity Manual (HCM)</u>, 6th Edition methodology introduced in Chapter I, the evening peak hour LOS was computed for each study intersection. The results of this analysis are reported in Table 2 (see Appendix B for the detailed LOS reports). Multiple runs of SimTraffic were used to provide a statistical evaluation of the interaction between the intersections. These results serve as a baseline condition for the impact analysis of the proposed development during existing (2018) conditions. As shown in Table 2, all study intersections are currently operating at an acceptable LOS during the evening peak hour except 700 East / 3300 South.

Table 2 Existing (2018) Background Evening Peak Hour Level of Service

Intersection	Wor	st Approach	Overall Intersection			
Description	Control	Approach ^{1,3}	Aver. Delay (Sec/Veh) ¹	LOS ¹	Aver. Delay (Sec/Veh) ²	LOS ²
500 East / 3300 South	Signal	-	-	-	19.3	В
540 East / 3300 South	SB Stop	SB	22.0	С	-	-
700 East / 3300 South	Signal	-	-	-	55.3	E
3360 South / 500 East	EB Stop	EB	4.3	Α	-	-

^{1.} This represents the worst approach LOS and delay (seconds / vehicle) and is only reported for non-all-way stop unsignalized intersections.

Source: Hales Engineering, April 2018

E. Queuing Analysis

Hales Engineering calculated the 95th percentile queue lengths for each of the study intersections. The queue reports can be found in Appendix D. Some queueing was observed during the evening peak hour as follows:

500 East / 3300 South	700 East / 3300 South
Eastbound (250 feet)	Northbound (460 feet)
Westbound (320 feet)	Southbound (510 feet)
	Eastbound (440 feet)
	Westbound (700 feet)

^{2.} This represents the overall intersection LOS and delay (seconds / vehicle) and is reported for all-way stop and signal controlled intersections.

^{3.} SB = Southbound approach, etc.



F. Mitigation Measures

The intersection of 700 East / 3300 South is currently performing at a poor LOS. This intersection is very busy on all approaches and all approaches are functioning at LOS D or E. Green time redistribution is unlikely to help mitigate this intersection. It is possible that a longer cycle length may help at this intersection, however, 700 East is a very long corridor and re-coordination of all the signals and their cross streets would be difficult.

A right-turn pocket could be beneficial on all the approaches. The westbound approach would likely benefit the most from a right-turn pocket since if does have the highest turning volume of all the approaches. This turn-pocket would reduce the queueing in the westbound direction as well.



III. PROJECT CONDITIONS

A. Purpose

The project conditions analysis explains the type and intensity of development. This provides the basis for trip generation, distribution, and assignment of project trips to the surrounding study intersections defined in the Introduction.

B. Project Description

This study addresses the traffic impacts associated with the proposed Wasatch Granite Townhome development located in South Salt Lake, Utah. The proposed project is located South of 3300 South on the east side of the old Granite High School. The development will consist of residential townhomes. A concept plan for the proposed developments has been included in Appendix C.

The proposed land use for the development has been identified as follows:

• Townhomes 113 Units

C. Trip Generation

Trip generation for the development was calculated using trip generation rates published in the Institute of Transportation Engineers (ITE), <u>Trip Generation</u>, (10th Edition, 2017). Trip Generation for the proposed project is included in Table 3.

The total trip generation for the development is as follows:

•	Daily Trips:	814
•	Morning Peak Hour Trips:	54
•	Evening Peak Hour Trips:	66



South Salt Lake - Wasatch Granite Townhomes TIS Trip Generation										
Neekday Daily Number of Unit Trip % % Trips Trips Total Daily Land Use ¹ Units Type Generation Entering Exiting Entering Exiting Trips										
Multifamily Housing (Low-Rise) (220) Project Total Daily Trips	113	Dwelling Units	814	50%	50%	407 407	407 407	814 814		
A.M. Peak Hour Land Use ¹	Number of Units	Unit Type	Trip Generation	% Entering	% Exiting	Trips Entering	Trips Exiting	Total a.m. Trips		
Multifamily Housing (Low-Rise) (220) Project Total a.m. Peak Hour Trips	113	Dwelling Units	54	23%	77%	12 12	42 42	54 54		
P.M. Peak Hour Land Use ¹	Number of Units	Unit Type	Trip Generation	% Entering	% Exiting	Trips Entering	Trips Exiting	Total p.m. Trips		
Multifamily Housing (Low-Rise) (220) Project Total p.m. Peak Hour Trips	113	Dwelling Units	66	63%	37%	42 42	24 24	66 66		

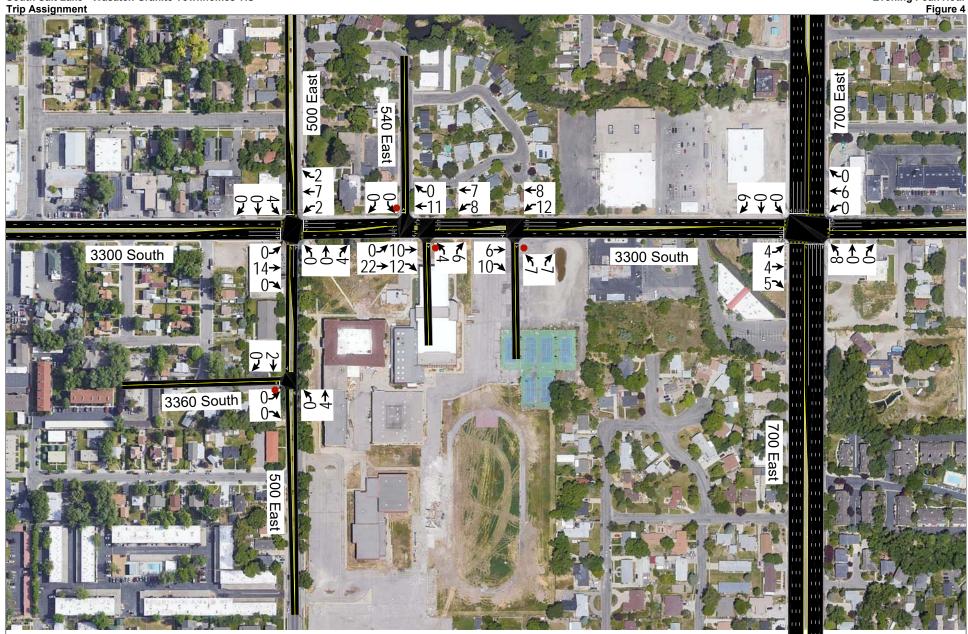
D. Trip Distribution and Assignment

Project traffic is assigned to the roadway network based on the type of trip and the proximity of project access points to major streets, high population densities, and regional trip attractions. Existing travel patterns observed during data collection also provide helpful guidance to establishing these distribution percentages, especially in close proximity to the site. The resulting distribution of project generated trips during the evening peak hour is as follows:

To/From Project:

- 15% North (via 700 East)
- 20% South (via 700 East)
- 10% North (via 500 East)
- 10% South (via 500 East)
- 15% East
- 30% West

These trip distribution assumptions were used to assign the evening peak hour generated traffic at the study intersections to create trip assignment for the proposed development. Trip assignment for the development is shown in Figure 4.



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E. Access

The proposed access for the site will be gained at the following locations (see also concept plan in Appendix C):

3300 South:

- The East Access will be located approximately 350 feet east of the West Access. It is anticipated that the access will be full movement and stop-controlled. Based on Administrative Rule R930-6, this access will not meet the minimum spacing requirements for a driveway and will require a variance from UDOT.
- The West Access will be located approximately 330 feet east of 500 East. It is anticipated that the access will be full movement and stop-controlled. Based on Administrative Rule R930-6, this access will not meet the minimum spacing requirements for a driveway and will require a variance from UDOT.

F. Auxiliary Lane Requirements

Based on Administrative Rule R930-6, the following auxiliary lanes may be required for the proposed accesses onto 3300 East (UDOT Access Category 5 roadway):

Left-turn Deceleration Lane:

Required when the projected peak hour left-turn ingress volume is greater than 10 vph. As shown in Figure 4, it is anticipated that this volume will be met during the evening peak hour at the East access off of 3300 South. Therefore, a left-turn lane is required at this location. A center TWLTL currently exists at this location and will serve as a left-turn deceleration lane for this access.

Right-turn Deceleration Lane:

• Required when the projected peak hour right-turn ingress volume is greater than 25 vph. As shown in Figure 4, it is not anticipated that this peak hour volume will be met during the evening peak hour at the access onto 3300 South. Therefore, a right-turn deceleration lane is not required at this location.

Right-turn Acceleration Lane:

Required when the projected peak hour right-turn egress volume is greater than 50 vph when the posted speed limit on the highway is greater than 40 mph. As shown in Figure 4, it is not anticipated that this peak hour volume will be met during the evening peak hour at the access onto 3300 South. Therefore, a right-turn acceleration lane is not required at this location.



<u>Left-turn Acceleration Lane:</u>

 May be required if such a design will be a benefit to the safety and operation of the roadway. The existing center TWLTL on 3300 South can serve as a left-turn acceleration lane however, one is not required.



IV. EXISTING (2018) PLUS PROJECT CONDITIONS

A. Purpose

The purpose of the existing (2018) plus project analysis is to study the intersections and roadways during the peak travel periods of the day for existing background traffic and geometric conditions plus the net trips generated by the proposed development. This scenario provides valuable insight into the potential impacts of the proposed project on background traffic conditions.

B. Traffic Volumes

Project trips were assigned to the study intersections based on the trip distribution percentages discussed in Chapter III and permitted intersection turning movements. The existing (2018) plus project evening peak hour volumes were generated for the study intersections and are shown in Figure 5.

C. Level of Service Analysis

Using Synchro/SimTraffic, which follow the <u>Highway Capacity Manual (HCM)</u>, 6th Edition methodology introduced in Chapter I, the evening peak hour LOS was computed for each study intersection. The results of this analysis are reported in Table 4 (see Appendix B for the detailed LOS reports). Multiple runs of SimTraffic were used to provide a statistical evaluation of the interaction between the intersections. As shown in Table 4, all intersections are anticipated to operate at an acceptable LOS during the evening peak hour with project traffic added except 700 East / 3300 South.

D. Queuing Analysis

Hales Engineering calculated the 95th percentile queue lengths for each of the study intersections. The queue reports can be found in Appendix D. Some queuing is anticipated during the evening peak hour as follows.

500 East / 3300 South	<u>/00 East / 3300 South</u>
Eastbound (240 feet)	Northbound (440 feet)
Westbound (330 feet)	Southbound (490 feet)
	Eastbound (530 feet)
	Westbound (700 feet)



Table 4 Existing (2018) Plus Project Evening Peak Hour Level of Service

Intersection	Wor	st Approach	Overall Intersection			
Description	Control	Approach ^{1,3}	Aver. Delay (Sec/Veh) ¹	LOS ¹	Aver. Delay (Sec/Veh) ²	LOS ²
500 East / 3300 South	Signal	-	-	-	19.5	В
540 East / 3300 South	SB Stop	SB	21.7	С	-	-
700 East / 3300 South	Signal	-	-	-	55.7	E
3360 South / 500 East	EB Stop	EB	3.7	Α	-	-
East Access / 3300 South	NB Stop	NB	15.7	С	-	-
West Access / 3300 South	NB Stop	NB	12.3	В	-	-

^{1.} This represents the worst approach LOS and delay (seconds / vehicle) and is only reported for non-all-way stop unsignalized intersections.

Source: Hales Engineering, June 2018

E. Mitigation Measures

The intersection of 700 East / 3300 South is anticipated to perform poorly. The average delay per vehicle is anticipated to be approximately 56.6 seconds per vehicle. The LOS D/E threshold is 55 seconds of delay per vehicle on average. This intersection is operating right at the threshold for a poorly performing intersection. As previously mentioned in the background scenario, a right-turn pocket on each of the four approaches could be beneficial. The westbound approach would likely benefit the most from a right-turn pocket since if does have the highest turning volume of all the approaches. This turn-pocket would reduce the queueing in the westbound direction.

^{2.} This represents the overall intersection LOS and delay (seconds / vehicle) and is reported for all-way stop and signal controlled intersections.

^{3.} SB = Southbound approach, etc.

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V. FUTURE (2024) BACKGROUND CONDITIONS

A. Purpose

The purpose of the future (2024) background analysis is to study the intersections and roadways during the peak travel periods of the day for future background traffic and geometric conditions. Through this analysis, future background traffic operational deficiencies can be identified, and potential mitigation measures recommended.

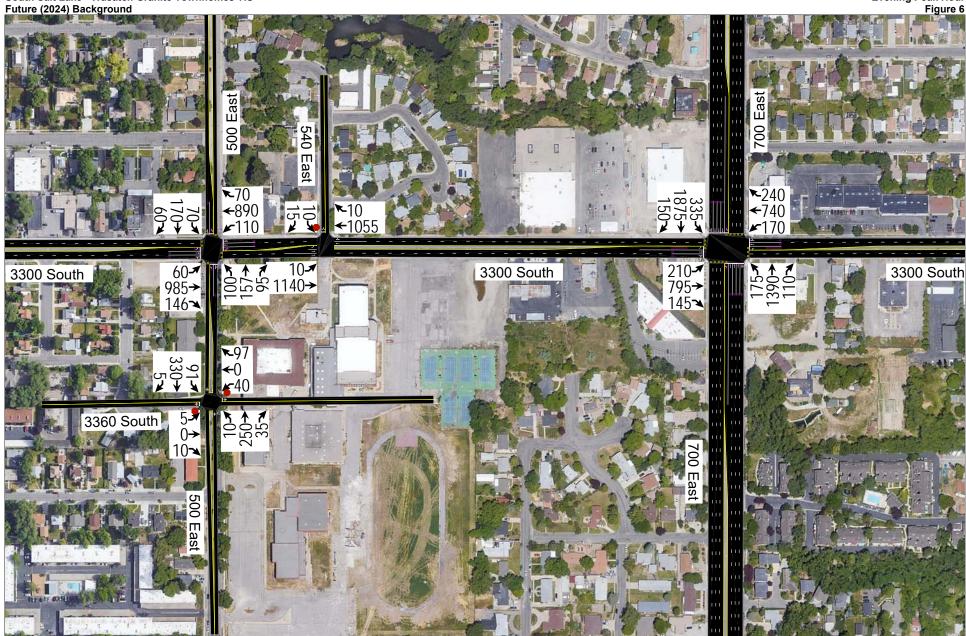
B. Roadway Network

According to the Wasatch Front Regional Council Regional Transportation Plan, there are no projects planned before 2024 in the study area. Therefore, no changes were made to the roadway network for the Future (2024) analysis. According to the WFRC Regional Transportation Plan, there are plans to build a future BRT route through 3300 South. This project is planned as a phase two project which are planned to be built sometime between 2024 and 2034.

C. Traffic Volumes

Hales Engineering obtained future (2024) forecasted volumes from the Wasatch Front Regional Council (WFRC) / Mountainland Association of Governments (MAG) travel demand model. Peak period turning movement counts were estimated using NCHRP 255 methodologies which utilize existing peak period turn volumes and future AWDT volumes to project the future turn volumes at the major intersections. Future (2024) evening peak hour turning movement volumes are shown in Figure 6.

It was assumed that the planned library between 500 East and the proposed development would be built before the year 2024. The library is still in the planning stages and the exact locations of accesses are unknown. It was assumed that the library would have a single access onto 500 East, to remain conservative. No access onto 3300 South is planned. It is currently planned to be approximately 30,000 square feet and was included in the 2024 background conditions analysis.



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D. Level of Service Analysis

Using Synchro/SimTraffic, which follow the <u>Highway Capacity Manual (HCM)</u>, 6th Edition methodology introduced in Chapter I, the evening peak hour LOS was computed for each study intersection. The results of this analysis are reported in Table 5 (see Appendix B for the detailed LOS reports). Multiple runs of SimTraffic were used to provide a statistical evaluation of the interaction between the intersections. These results serve as a baseline condition for the impact analysis of the proposed development for future (2024) conditions. As shown in Table 5, all intersections are anticipated to operate at an acceptable LOS during the evening peak hour except 700 East / 3300 South.

Table 5 Future (2024) Background Evening Peak Hour Level of Service

Intersection		Worst Approach			Overall Inters	ection
Description	Control	Approach ^{1,3}	Aver. Delay (Sec/Veh) ¹	LOS ¹	Aver. Delay (Sec/Veh) ²	LOS ²
500 East / 3300 South	Signal	-	-	-	23.5	С
540 East / 3300 South	SB Stop	SB	19.1	С	-	-
700 East / 3300 South	Signal	-	-	-	79.4	E
3360 South / 500 East	EB/WB Stop	WB	7.5	Α	-	-

^{1.} This represents the worst approach LOS and delay (seconds / vehicle) and is only reported for non-all-way stop unsignalized intersections.

Source: Hales Engineering, April 2018

E. Queuing Analysis

Hales Engineering calculated the 95th percentile queue lengths for each of the study intersections. The queue reports can be found in Appendix D. Some queuing is anticipated during the evening peak hour as follows:

500 East / 3300 South	700 East / 3300 South
Northbound (270 feet)	Northbound (680 feet)
Southbound (250 feet)	Southbound (550 feet)
Eastbound (270 feet)	Eastbound (500 feet)
Westbound (330 feet)	Westbound (1,140 feet)

^{2.} This represents the overall intersection LOS and delay (seconds / vehicle) and is reported for all-way stop and signal controlled intersections.

^{3.} SB = Southbound approach, etc.



The intersection of 700 East / 3300 South has a moderate number of left-turns on most of the directions. The north-, south-, and eastbound directions are anticipated to have adequate left-turn storage. The eastbound left-turn storage is currently 100 feet in length. Queue lengths are anticipated to be long than the provided length; however, the two-way left-turn lane cause be used for further storage.

F. Mitigation Measures

The intersection of 700 East / 3300 South is anticipated to perform at a poor LOS. It is recommended that right-turn pockets in the east and westbound directions be built. An additional analysis was completed using the recommended mitigation measure of the additional right-turn pockets in the east- and westbound directions. The LOS results are shown in Table 6. As shown in Table 6 all intersections are anticipated to perform at acceptable LOS. Some queueing is still anticipated as follows:

500 East / 3300 South	700 East / 3300 South
Northbound (270 feet)	Northbound (540 feet)
Southbound (240 feet)	Southbound (500 feet)
Eastbound (280 feet)	Eastbound (350 feet)
Westbound (340 feet)	Westbound (380 feet)



Table 6 Future (2024) Background Evening Peak Hour Level of Service - Mitigated

Intersection		Worst Approach			Overall Intersection		
Description	Control	Approach ^{1,3}	Aver. Delay (Sec/Veh) ¹	LOS ¹	Aver. Delay (Sec/Veh) ²	LOS ²	
500 East / 3300 South	Signal	-	-	-	24.1	С	
540 East / 3300 South	SB Stop	SB	22.9	С	-	-	
700 East / 3300 South	Signal	-	-	-	50.5	D	
3360 South / 500 East	EB/WB Stop	WB	7.6	Α	-	-	

^{1.} This represents the worst approach LOS and delay (seconds / vehicle) and is only reported for non-all-way stop unsignalized intersections.

Source: Hales Engineering, April 2018

^{2.} This represents the overall intersection LOS and delay (seconds / vehicle) and is reported for all-way stop and signal controlled intersections.

^{3.} SB = Southbound approach, etc.



VI. FUTURE (2024) PLUS PROJECT CONDITIONS

A. Purpose

The purpose of the future (2024) plus project analysis is to study the intersections and roadways during the peak travel periods of the day for future background traffic and geometric conditions plus the net trips generated by the proposed development. This scenario provides valuable insight into the potential impacts of the proposed project on future background traffic conditions.

B. Traffic Volumes

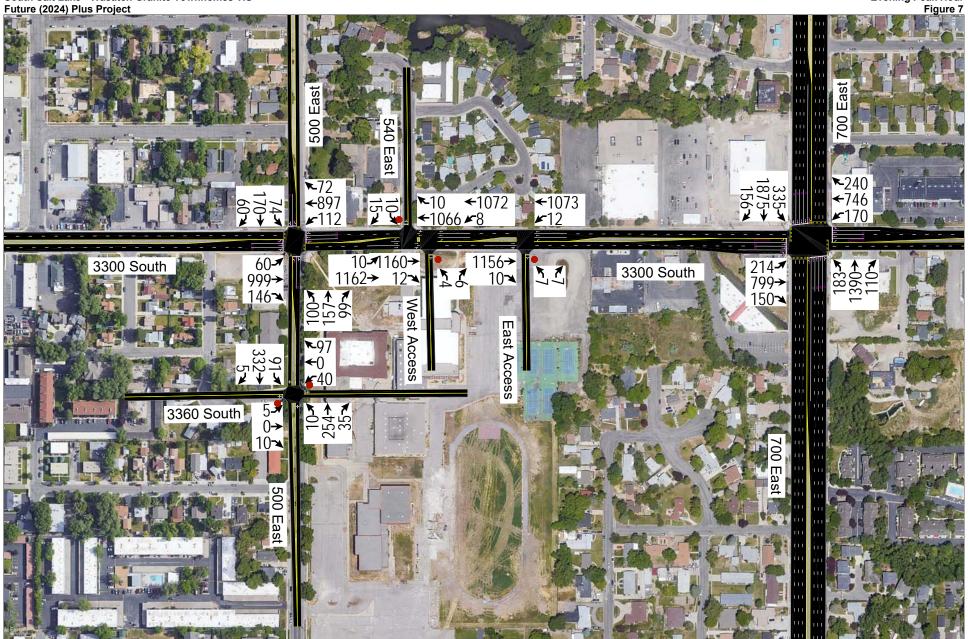
Hales Engineering used the future (2024) background traffic volumes and added the project trips to predict future (2024) plus project conditions. Trips were assigned to the study intersections based on the trip distribution percentages discussed in Chapter III and permitted intersection turning movements. Future (2024) plus project evening peak hour turning movement volumes are shown in Figure 7. This analysis also assumes that the right-turn pockets in the east- and westbound directions recommended in the background conditions analysis are constructed at the 700 East / 3300 South intersection.

C. Level of Service Analysis

Using Synchro/SimTraffic, which follow the <u>Highway Capacity Manual (HCM)</u>, 6th Edition methodology introduced in Chapter I, the evening peak hour LOS was computed for each study intersection. The results of this analysis are reported in Table 7 (see Appendix B for the detailed LOS reports). Multiple runs of SimTraffic were used to provide a statistical evaluation of the interaction between the intersections. As shown in Table 7, all intersections are anticipated to operate at an acceptable LOS during the evening peak hour.



Figure 7 Future (2024) Plus Project Evening Peak Hour Volumes



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D. Queuing Analysis

Hales Engineering calculated the 95th percentile queue lengths for each of the study intersections. The queue reports can be found in Appendix D. Some queuing is anticipated during the evening peak hour as follows.

500 East / 3300 South	700 East / 3300 South
Northbound (280 feet)	Northbound (640 feet)
Southbound (250 feet)	Southbound (530 feet)
Eastbound (280 feet)	Eastbound (340 feet)
Westbound (340 feet)	Westbound (380 feet)

The intersection of 700 East / 3300 South has a moderate number of left-turns on most of the directions. The north-, south-, and eastbound directions are anticipated to have adequate left-turn storage. The eastbound left-turn storage is currently 100 feet in length. Queue lengths are anticipated to be long than the provided length; however, the two-way left-turn lane cause be used for further storage.

Table 7 Future (2024) Plus Project Evening Peak Hour Level of Service

Intersection		Worst Approach			Overall Intersection		
Description	Control	Approach ^{1,3}	Aver. Delay (Sec/Veh) ¹	LOS ¹	Aver. Delay (Sec/Veh) ²	LOS ²	
500 East / 3300 South	Signal	-	-	-	24.0	С	
540 East / 3300 South	SB Stop	SB	22.1	С	-	-	
700 East / 3300 South	Signal	-	-	-	51.0	D	
3360 South / 500 East	EB/WB Stop	WB	7.6	Α	-	-	
East Access / 3300 South	NB Stop	NB	16.5	С	-	-	
West Access / 3300 South	NB Stop	NB	18.5	С	-	-	

^{1.} This represents the worst approach LOS and delay (seconds / vehicle) and is only reported for non-all-way stop unsignalized intersections.

Source: Hales Engineering, June 2018

^{2.} This represents the overall intersection LOS and delay (seconds / vehicle) and is reported for all-way stop and signal controlled intersections.

^{3.} SB = Southbound approach, etc



E. Mitigation Measures

No mitigation measures are recommended.



F. Recommended Storage Lengths

Hales Engineering determined recommended storage lengths based on the 95th percentile queue lengths given in the future (2024) plus project scenario. These storage lengths do not include the taper length. Recommended storage lengths for the study intersections are shown in Table 8. Intersections shown in Table 8 include new intersections and existing intersections that have recommended storage length changes.

Table 8 Recommended Storage Lengths

Recommended Storage Lengths South Salt Lake - Wasatch Granite Townhomes TIS								
Storage Length (feet)								
Intersection	Northbound Southbound			Eastbound		Westbound		
	LT	RT	LT	RT	LT	RT	LT	RT
700 East / 3300 South	-	-	-	-	-	250	-	250
East Access / 3300 South2	-	-	-	-	-	-	100	-
West Access / 3300 South2	-	-	-	-	-	-	100	-
Source: Hales Engineering, June 2018								



VII. 500 East / 3300 South Intersection Analysis

A. Purpose

The purpose of this chapter is to evaluate the intersection of 500 East / 3300 South in South Salt Lake, Utah. This memorandum will specifically address the northbound movement and determine if a northbound right-turn pocket is necessary.

B. Traffic Volumes

This analysis was completed using future 2024, evening peak hour traffic volumes from the traffic impact study completed by Hales Engineering for the Wasatch Granite Townhomes. The analysis also included traffic from the Wasatch Granite Townhomes development, a future library, and the Granite Legacy Subdivision. These projects are all planned to be built on the old Granite High School property.

C. Intersection Analysis

An analysis was completed for the 500 East / 3300 South intersection specifically looking at the northbound approach. The first analysis does not include a northbound right-turn pocket at the 500 East / 3300 South intersection. The second analysis includes a northbound right-turn pocket.

No Northbound Right-turn Pocket

The analysis was completed in Synchro/SimTraffic and the results are shown in Table 9. As shown in Table 9, the 500 East / 3300 South intersection is anticipated to operate at a level of service (LOS) C (see Appendix E for detailed reports). The 95th percentile queue length in the northbound through/right-turn lane is anticipated to be approximately 275 feet.



Table 9 Future (2024) No Northbound Right-turn Pocket Evening Peak Hour Level of Service

Intersection		Wor	st Approach		Overall Inters	ection
Description	Control	Approach ^{1,3}	Aver. Delay (Sec/Veh)¹	LOS ¹	Aver. Delay (Sec/Veh) ²	LOS ²
500 East / 3300 South	Signal	-	-	-	25.0	С
This represents the worst approach I This represents the overall intersecti SB = Southbound approach, etc.						
Source: Hales Engineerin	ng, June 201	8				

Northbound Right-turn Pocket

The analysis was completed in Synchro/SimTraffic and the results are shown in Table 10. As shown in Table 10, the 500 East / 3300 South intersection is anticipated to operate at a LOS C (see Appendix E for detailed reports). The 95th percentile queue length in the northbound through lane is approximately 200 feet and the right-turn pocket queue length is anticipated to be approximately 110 feet. With the addition of a right-turn pocket, the queue length in the northbound direction is anticipated to decrees by approximately 75 feet.

Table 10 Future (2024) With Northbound Right-turn Pocket Evening Peak Hour Level of Service

Intersection		Wor	st Approach		Overall Inters	ection
Description	Control	Approach ^{1,3}	Aver. Delay (Sec/Veh) ¹	LOS ¹	Aver. Delay (Sec/Veh) ²	LOS ²
500 East / 3300 South	Signal	-	-	-	23.9	С
This represents the worst approach I This represents the overall intersection SB = Southbound approach, etc.				, , ,		

Source: Hales Engineering, June 2018



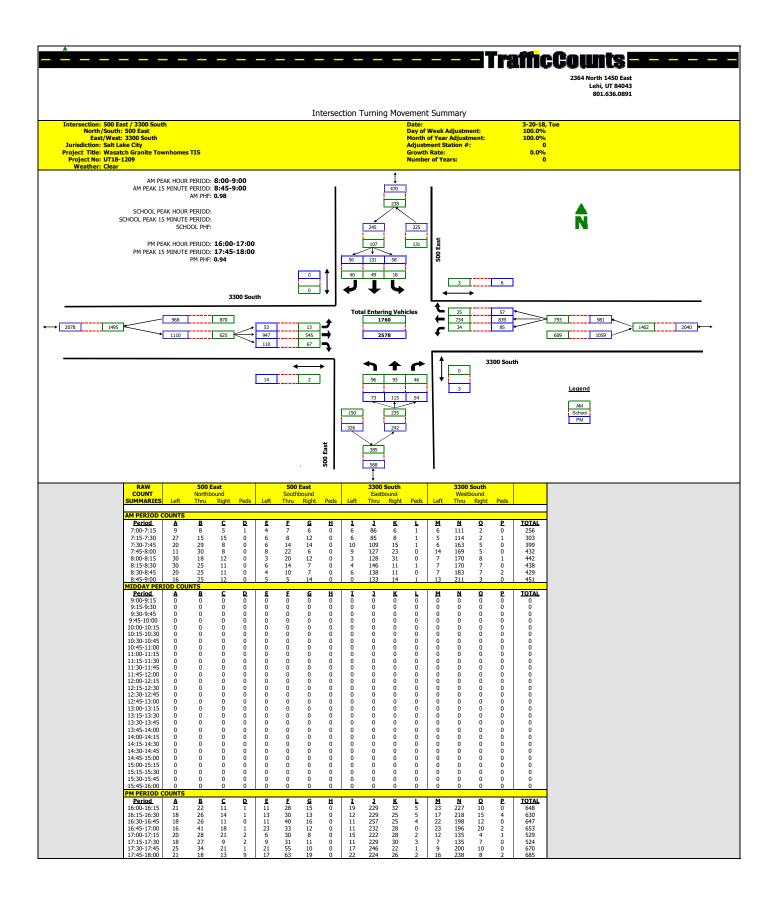
The LOS of the two analyses are LOS C with approximately the same average delay per vehicle. The 95th percentile queue lengths differ by approximately 75 feet. The library is planned to be built on the corner of 500 East / 3300 South and is currently planned to only have access out to 500 East. There are no plans available at this time to see where the library accesses are planned to be located. Seventy-five feet is not typically a significant distance; however, depending on the location of the library access, this distance could prove to be helpful for the overall intersection operations and queuing.

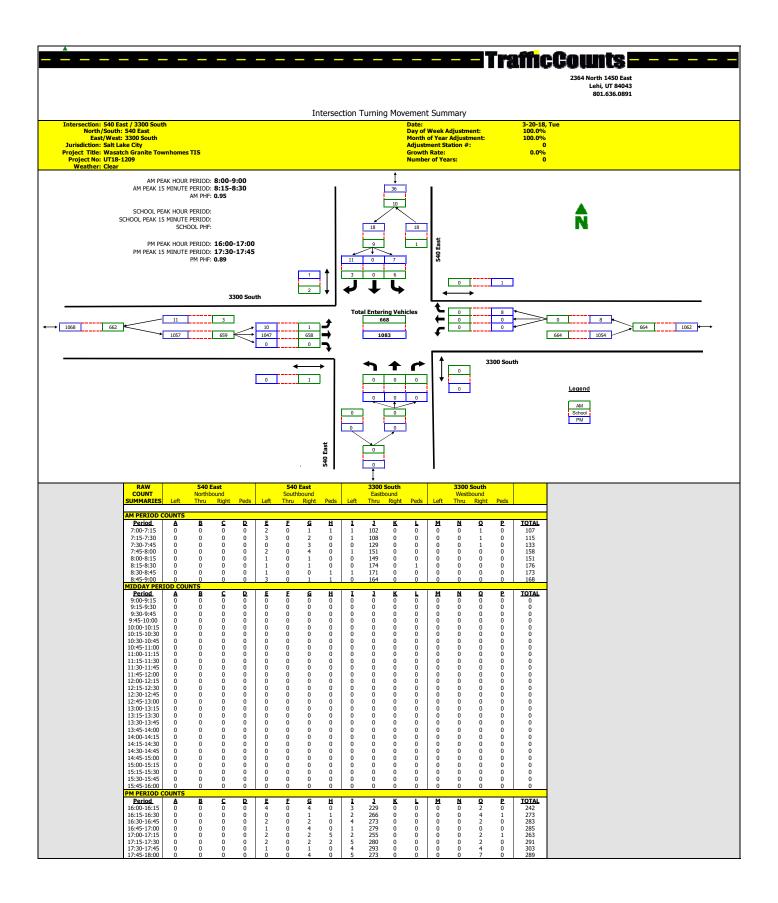
A northbound right-turn pocket is recommended if a library access will be located within 300 feet of the 500 East / 3300 South intersection. If the access points to the library are located further than 300 feet from the 500 East / 3300 South, then a right-turn pocket is likely not necessary.

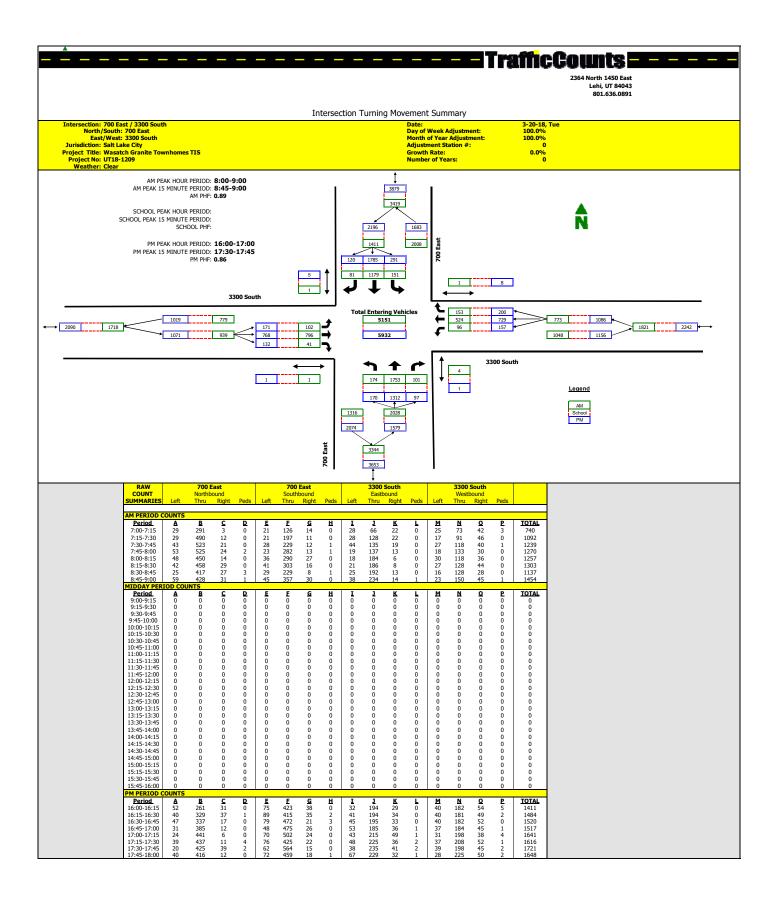


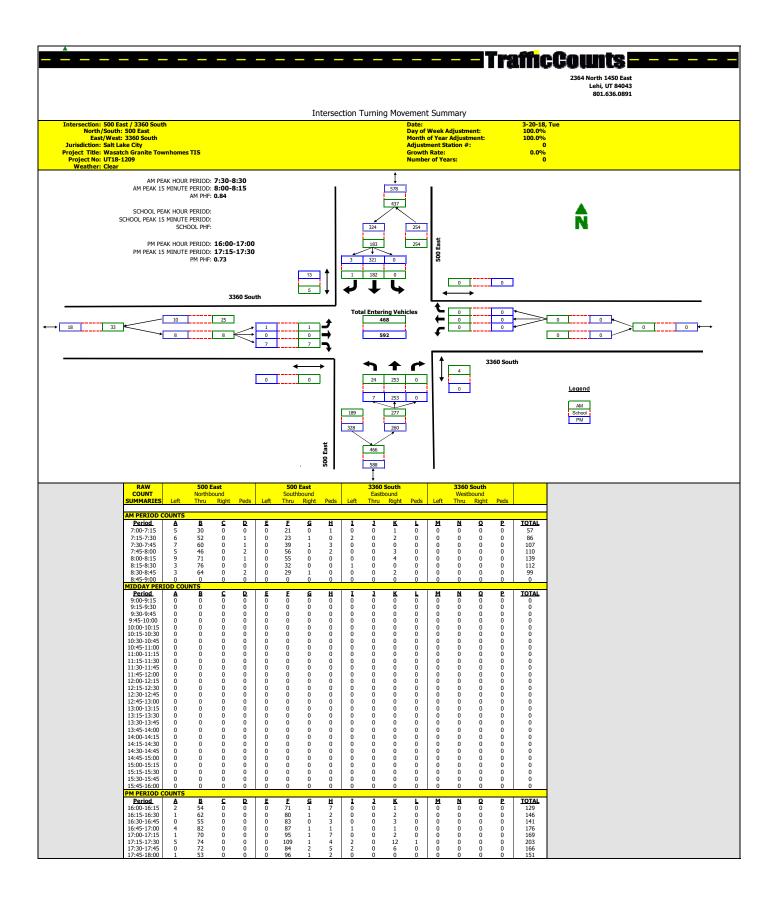
APPENDIX A

Turning Movement Counts











APPENDIX B

LOS Results



Project: South Salt Lake - Wasatch Granite Townhomes TIS

Analysis Period: Existing (2018) Background

Time Period: Evening Peak Hour Project #: UT18-1209

Intersection: 500 East & 3300 South

Type: Signalized

Annyoooh	Mayamant	Demand	Volume	e Served	Delay/Vel	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	73	70	96	53.5	D
NB	Т	115	113	98	43.5	D
IND	R	54	52	96	26.4	С
	Subtotal	242	235	97	42.7	D
	L	58	55	94	54.3	D
SB	Т	131	130	99	43.7	D
3b	R	56	57	101	28.5	С
	Subtotal	245	242	99	42.5	D
	L	53	49	92	23.7	С
EB	Т	955	946	99	8.8	Α
	R	110	107	97	6.3	Α
	Subtotal	1,118	1,102	99	9.2	Α
	L	85	87	103	42.2	D
WB	Т	852	853	100	17.1	В
***	R	57	56	98	15.7	В
	Subtotal	994	996	100	19.2	В
Total		2,600	2,575	99	19.3	В

Intersection: 700 East & 3300 South

Type: Signalized

турс.		Olgitalized				
Approach	Movement	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	wovement	Volume	Avg	%	Avg	LOS
	L	165	163	99	69.2	Ε
NB	Т	1,312	1,301	99	63.0	E
IND	R	97	98	101	26.1	С
	Subtotal	1,574	1,562	99	61.3	E
	L	291	296	102	59.7	Ε
SB	Т	1,785	1,762	99	46.1	D
SD	R	120	122	102	20.7	С
	Subtotal	2,196	2,180	99	46.5	D
	L	169	170	101	82.9	F
EB	Т	764	748	98	35.6	D
LD	R	132	132	100	34.6	С
	Subtotal	1,065	1,050	99	43.1	D
	L	157	161	102	92.8	F
WB	Т	715	718	100	73.5	Е
VVD	R	200	194	97	70.6	E
	Subtotal	1,072	1,073	100	75.9	E
Total		5,907	5,865	99	55.3	Ε



Project: South Salt Lake - Wasatch Granite Townhomes TIS

Analysis Period: Existing (2018) Background

Time Period: Evening Peak Hour Project #: UT18-1209

Intersection: 3300 South & 540 East

Type: Unsignalized

Approach	Movement	Demand	Volume	e Served	Delay/Vel	h (sec)
Арргоасп	Movement	Volume	Avg	%	Avg	LOS
	L	7	6	83	37.1	Ε
SB	R	11	12	107	14.5	В
35						
	Subtotal	18	18	100	22.0	С
	L	10	10	98	9.8	Α
EB	Т	1,058	1,042	99	1.1	Α
	Subtotal	1,068	1,052	99	1.2	Α
	Т	992	993	100	4.8	Α
WB	R	8	9	109	5.2	Α
5						
	Subtotal	1,000	1,002	100	4.8	Α
Total		2,086	2,072	99	3.2	Α

Intersection: 500 East & 3360 South

Type: Unsignalized

туре.		Onsignanzea				
Annyosoh	Mayamant	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	7	8	110	3.1	Α
NB	Т	241	235	98	0.4	Α
IND						
	Subtotal	248	243	98	0.5	Α
	Т	324	321	99	1.4	Α
SB	R	3	3	100	1.4	Α
OB						
	Subtotal	327	324	99	1.4	Α
	L	1	0	0		
EB	R	7	7	97	4.3	Α
	Subtotal	8	7	88	4.3	Α
Tatal		500	574	00	4.0	
Total		583	574	98	1.0	Α

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.4	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.4	0.4
Total Delay (hr)	0.1	0.5	0.0	0.2	1.0	0.1	0.2	0.3	0.1	0.2	0.3	0.1
Total Del/Veh (s)	20.9	7.7	5.5	37.7	16.5	16.5	48.2	42.5	22.8	50.3	39.9	25.4
Vehicles Entered	10	223	25	18	202	14	16	27	12	14	30	14
Vehicles Exited	10	227	25	19	213	14	16	25	11	14	28	14
Hourly Exit Rate	40	908	100	76	852	56	64	100	44	56	112	56
Input Volume	51	916	105	81	817	55	70	110	52	56	126	54
% of Volume	78	99	95	94	104	102	91	91	85	100	89	104

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.3
Total Delay (hr)	3.1
Total Del/Veh (s)	17.8
Vehicles Entered	605
Vehicles Exited	616
Hourly Exit Rate	2464
Input Volume	2493
% of Volume	99

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.4	0.3
Total Delay (hr)	0.1	0.5	0.0	0.2	0.9	0.1	0.3	0.4	0.1	0.2	0.4	0.1
Total Del/Veh (s)	23.3	8.3	5.9	36.7	15.9	14.4	52.2	41.7	25.2	51.1	43.8	28.1
Vehicles Entered	12	231	25	22	208	14	17	29	13	12	31	13
Vehicles Exited	12	226	25	21	198	13	16	30	14	12	32	14
Hourly Exit Rate	48	904	100	84	792	52	64	120	56	48	128	56
Input Volume	51	916	105	81	817	55	70	110	52	56	126	54
% of Volume	94	99	95	104	97	95	91	109	108	86	102	104

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.2
Total Delay (hr)	3.3
Total Del/Veh (s)	18.4
Vehicles Entered	627
Vehicles Exited	613
Hourly Exit Rate	2452
Input Volume	2493
% of Volume	98

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3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.1	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.4	0.4
Total Delay (hr)	0.1	8.0	0.1	0.3	1.3	0.1	0.3	0.4	0.1	0.2	0.5	0.1
Total Del/Veh (s)	25.0	10.0	7.5	49.7	19.3	17.6	49.5	40.5	25.8	44.1	42.6	29.0
Vehicles Entered	14	264	30	23	224	15	22	33	15	15	38	18
Vehicles Exited	13	267	30	24	233	16	22	32	14	15	37	17
Hourly Exit Rate	52	1068	120	96	932	64	88	128	56	60	148	68
Input Volume	60	1073	124	96	956	64	82	129	61	65	147	63
% of Volume	87	100	97	100	97	100	107	99	92	92	101	108

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.2
Total Del/Veh (s)	20.5
Vehicles Entered	711
Vehicles Exited	720
Hourly Exit Rate	2880
Input Volume	2920
% of Volume	99

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.3	0.4
Total Delay (hr)	0.1	0.5	0.0	0.3	0.9	0.1	0.2	0.3	0.1	0.2	0.4	0.1
Total Del/Veh (s)	23.1	7.8	5.3	36.5	15.6	14.0	50.1	40.9	27.5	57.6	41.6	27.4
Vehicles Entered	13	226	27	24	217	14	15	26	13	14	33	12
Vehicles Exited	14	226	27	24	208	13	16	27	13	14	33	12
Hourly Exit Rate	56	904	108	96	832	52	64	108	52	56	132	48
Input Volume	51	916	105	81	817	55	70	110	52	56	126	54
% of Volume	110	99	103	119	102	95	91	98	100	100	105	89

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.3
Total Delay (hr)	3.3
Total Del/Veh (s)	18.1
Vehicles Entered	634
Vehicles Exited	627
Hourly Exit Rate	2508
Input Volume	2493
% of Volume	101

3: 500 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Denied Del/Veh (s)	2.3	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.4	0.4
Total Delay (hr)	0.3	2.3	0.2	1.0	4.1	0.3	1.1	1.4	0.4	8.0	1.6	0.5
Total Del/Veh (s)	23.7	8.8	6.3	42.2	17.1	15.7	53.5	43.5	26.4	54.3	43.7	28.5
Vehicles Entered	48	944	107	88	851	57	70	114	52	55	131	57
Vehicles Exited	49	946	107	87	853	56	70	113	52	55	130	57
Hourly Exit Rate	49	946	107	87	853	56	70	113	52	55	130	57
Input Volume	53	955	110	85	852	57	73	115	54	58	131	56
% of Volume	92	99	97	103	100	98	96	98	96	94	99	101

3: 500 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.3
Total Delay (hr)	13.9
Total Del/Veh (s)	19.3
Vehicles Entered	2574
Vehicles Exited	2575
Hourly Exit Rate	2575
Input Volume	2600
% of Volume	99

6: 700 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.2	0.3	2.1	0.1	0.2	1.9	0.2	0.3
Total Delay (hr)	0.6	1.7	0.3	8.0	2.5	0.6	0.7	4.7	0.1	1.1	4.9	0.1
Total Del/Veh (s)	51.5	32.8	31.4	62.0	49.9	44.9	57.8	48.6	19.2	48.8	37.5	15.4
Vehicles Entered	39	179	30	41	172	49	40	318	22	69	429	28
Vehicles Exited	37	167	27	39	159	46	41	333	22	74	458	30
Hourly Exit Rate	148	668	108	156	636	184	164	1332	88	296	1832	120
Input Volume	162	732	127	151	686	192	158	1258	93	279	1711	115
% of Volume	91	91	85	103	93	96	104	106	95	106	107	104

6: 700 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.4
Total Delay (hr)	18.0
Total Del/Veh (s)	42.5
Vehicles Entered	1416
Vehicles Exited	1433
Hourly Exit Rate	5732
Input Volume	5664
% of Volume	101

6: 700 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.8	0.3	0.3	2.0	0.1	0.2	2.0	0.2	0.2
Total Delay (hr)	0.8	1.7	0.3	8.0	2.6	0.5	0.7	4.1	0.1	1.1	4.8	0.2
Total Del/Veh (s)	62.0	30.5	27.8	61.5	48.1	41.8	58.2	45.8	16.8	53.8	40.3	19.1
Vehicles Entered	44	178	31	41	172	42	40	311	28	68	419	30
Vehicles Exited	44	190	34	42	186	45	38	292	27	63	387	29
Hourly Exit Rate	176	760	136	168	744	180	152	1168	108	252	1548	116
Input Volume	162	732	127	151	686	192	158	1258	93	279	1711	115
% of Volume	109	104	107	111	108	94	96	93	116	90	90	101

6: 700 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.4
Total Delay (hr)	17.7
Total Del/Veh (s)	42.6
Vehicles Entered	1404
Vehicles Exited	1377
Hourly Exit Rate	5508
Input Volume	5664
% of Volume	97

6: 700 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.4	0.4	0.4	2.0	0.1	0.2	1.9	0.3	0.5
Total Delay (hr)	1.2	2.2	0.4	1.5	4.8	1.2	1.2	8.3	0.3	1.6	7.8	0.2
Total Del/Veh (s)	87.9	36.4	33.8	111.2	80.8	76.2	84.0	74.9	39.0	61.7	52.1	26.0
Vehicles Entered	46	208	39	44	206	56	47	366	27	83	492	32
Vehicles Exited	41	194	35	38	179	48	46	363	27	87	512	33
Hourly Exit Rate	164	776	140	152	716	192	184	1452	108	348	2048	132
Input Volume	190	858	148	176	803	225	185	1474	109	327	2006	135
% of Volume	86	90	95	86	89	85	99	99	99	106	102	98

6: 700 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.4
Total Delay (hr)	30.7
Total Del/Veh (s)	62.6
Vehicles Entered	1646
Vehicles Exited	1603
Hourly Exit Rate	6412
Input Volume	6636
% of Volume	97

6: 700 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.7	0.3	0.3	2.2	0.1	0.2	1.9	0.2	0.3
Total Delay (hr)	1.3	1.9	0.4	1.2	5.0	1.4	0.7	6.3	0.2	1.3	5.6	0.2
Total Del/Veh (s)	95.2	34.5	35.2	95.6	86.8	86.3	53.3	65.6	25.2	58.9	45.1	19.2
Vehicles Entered	42	181	32	34	171	49	38	311	22	75	421	31
Vehicles Exited	48	197	36	41	193	56	39	313	22	73	404	30
Hourly Exit Rate	192	788	144	164	772	224	156	1252	88	292	1616	120
Input Volume	162	732	127	151	686	192	158	1258	93	279	1711	115
% of Volume	119	108	113	109	113	117	99	100	95	105	94	104

6: 700 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.4
Total Delay (hr)	25.5
Total Del/Veh (s)	58.3
Vehicles Entered	1407
Vehicles Exited	1452
Hourly Exit Rate	5808
Input Volume	5664
% of Volume	103

6: 700 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.2	0.1	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.3	0.3	2.1	0.1	0.2	1.9	0.2	0.3
Total Delay (hr)	4.0	7.4	1.3	4.3	14.9	3.9	3.2	23.3	0.7	5.1	23.1	0.7
Total Del/Veh (s)	82.9	35.6	34.6	92.8	73.5	70.6	69.2	63.0	26.1	59.7	46.1	20.7
Vehicles Entered	170	745	132	161	722	196	165	1306	99	296	1762	122
Vehicles Exited	170	748	132	161	718	194	163	1301	98	296	1762	122
Hourly Exit Rate	170	748	132	161	718	194	163	1301	98	296	1762	122
Input Volume	169	764	132	157	715	200	165	1312	97	291	1785	120
% of Volume	101	98	100	102	100	97	99	99	101	102	99	102

6: 700 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	0.6
Denied Del/Veh (s)	0.4
Total Delay (hr)	91.9
Total Del/Veh (s)	55.3
Vehicles Entered	5876
Vehicles Exited	5865
Hourly Exit Rate	5865
Input Volume	5907
% of Volume	99

9: 3300 South & 540 East Performance by movement Interval #1 4:00

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.3	0.0	0.0	0.0	0.4
Total Del/Veh (s)	9.9	1.1	4.5	7.5	40.9	17.4	3.0
Vehicles Entered	3	249	227	2	1	3	485
Vehicles Exited	4	247	233	2	1	3	490
Hourly Exit Rate	16	988	932	8	4	12	1960
Input Volume	10	1014	951	8	7	11	2001
% of Volume	160	97	98	100	57	109	98

9: 3300 South & 540 East Performance by movement Interval #2 4:15

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.3	0.0	0.0	0.0	0.4
Total Del/Veh (s)	11.6	1.1	4.8	4.1	24.6	10.0	3.1
Vehicles Entered	2	249	251	3	2	3	510
Vehicles Exited	2	251	243	2	2	3	503
Hourly Exit Rate	8	1004	972	8	8	12	2012
Input Volume	10	1014	951	8	7	11	2001
% of Volume	80	99	102	100	114	109	101

9: 3300 South & 540 East Performance by movement Interval #3 4:30

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.4	0.0	0.0	0.0	0.5
Total Del/Veh (s)	12.0	1.2	5.0	3.1	45.2	21.1	3.3
Vehicles Entered	2	294	256	2	2	4	560
Vehicles Exited	2	290	262	2	2	4	562
Hourly Exit Rate	8	1160	1048	8	8	16	2248
Input Volume	11	1188	1114	9	8	12	2342
% of Volume	73	98	94	89	100	133	96

9: 3300 South & 540 East Performance by movement Interval #4 4:45

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.3	0.0	0.0	0.0	0.4
Total Del/Veh (s)	5.6	1.0	4.6	4.9	42.1	7.2	3.0
Vehicles Entered	2	251	260	2	1	2	518
Vehicles Exited	2	254	255	2	1	2	516
Hourly Exit Rate	8	1016	1020	8	4	8	2064
Input Volume	10	1014	951	8	7	11	2001
% of Volume	80	100	107	100	57	73	103

9: 3300 South & 540 East Performance by movement Entire Run

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Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.3	1.3	0.0	0.1	0.1	1.8
Total Del/Veh (s)	9.8	1.1	4.8	5.2	37.1	14.5	3.2
Vehicles Entered	10	1043	994	9	6	12	2074
Vehicles Exited	10	1042	993	9	6	12	2072
Hourly Exit Rate	10	1042	993	9	6	12	2072
Input Volume	10	1058	992	8	7	11	2086
% of Volume	98	99	100	109	83	107	99

11: 500 East & 3360 South Performance by movement Interval #1 4:00

Movement	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.2	0.2	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)	5.0	3.1	0.3	1.3	1.4	0.9
Vehicles Entered	2	2	53	71	1	129
Vehicles Exited	2	2	54	73	1	132
Hourly Exit Rate	8	8	216	292	4	528
Input Volume	7	7	231	310	3	559
% of Volume	114	114	94	94	133	94

11: 500 East & 3360 South Performance by movement Interval #2 4:15

Movement	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.6	0.2	0.0		0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)	3.6	3.8	0.3	1.4		1.0
Vehicles Entered	2	2	59	78	0	141
Vehicles Exited	2	2	59	75	0	138
Hourly Exit Rate	8	8	236	300	0	552
Input Volume	7	7	231	310	3	559
% of Volume	114	114	102	97	0	99

11: 500 East & 3360 South Performance by movement Interval #3 4:30

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)		0.1	0.1	0.3	0.0		0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)		3.6	4.0	0.5	1.4		1.1
Vehicles Entered	0	2	2	70	90	0	164
Vehicles Exited	0	2	2	70	92	0	166
Hourly Exit Rate	0	8	8	280	368	0	664
Input Volume	1	8	8	271	364	3	655
% of Volume	0	100	100	103	101	0	101

11: 500 East & 3360 South Performance by movement Interval #4 4:45

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)		0.1	0.2	0.2	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)		6.0	3.3	0.3	1.4	1.4	1.0
Vehicles Entered	0	1	1	53	82	1	138
Vehicles Exited	0	1	1	53	80	1	136
Hourly Exit Rate	0	4	4	212	320	4	544
Input Volume	1	7	7	231	310	3	559
% of Volume	0	57	57	92	103	133	97

11: 500 East & 3360 South Performance by movement Entire Run

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)		0.1	0.3	0.2	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.2
Total Del/Veh (s)		4.3	3.1	0.4	1.4	1.4	1.0
Vehicles Entered	0	7	8	236	322	3	576
Vehicles Exited	0	7	8	235	321	3	574
Hourly Exit Rate	0	7	8	235	321	3	574
Input Volume	1	7	7	241	324	3	583
% of Volume	0	97	110	98	99	100	98

Total Network Performance By Interval

Interval Start	4:00	4:15	4:30	4:45	All
Denied Delay (hr)	0.2	0.2	0.2	0.2	0.8
Denied Del/Veh (s)	0.4	0.4	0.5	0.5	0.5
Total Delay (hr)	23.3	23.0	37.5	30.9	114.8
Total Del/Veh (s)	48.4	48.5	66.9	61.4	62.3
Vehicles Entered	1545	1543	1812	1535	6442
Vehicles Exited	1570	1505	1744	1608	6428
Hourly Exit Rate	6280	6020	6976	6432	6428
Input Volume	16913	16913	19810	16913	17637
% of Volume	37	36	35	38	36

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	59	225	222	176	270	287	87	162	95	177	
Average Queue (ft)	25	133	116	72	196	222	54	97	51	104	
95th Queue (ft)	60	222	217	173	298	316	103	171	110	188	
Link Distance (ft)		941	941		290	290		394		694	
Upstream Blk Time (%)					1	1					
Queuing Penalty (veh)					3	5					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)		12		3	16		4	13	2	15	
Queuing Penalty (veh)		6		13	13		6	9	3	9	

Intersection: 3: 500 East & 3300 South, Interval #2

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	60	231	207	154	272	285	103	185	93	191	
Average Queue (ft)	32	145	121	72	190	219	58	111	45	114	
95th Queue (ft)	71	243	219	165	297	317	114	189	90	200	
Link Distance (ft)		941	941		290	290		394		694	
Upstream Blk Time (%)					0	1					
Queuing Penalty (veh)					2	5					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	13		5	15		5	17	2	21	
Queuing Penalty (veh)	0	7		19	12		8	12	3	12	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	115	259	236	214	288	300	137	192	132	212	
Average Queue (ft)	44	167	150	90	229	248	80	117	59	146	
95th Queue (ft)	139	265	254	202	314	327	146	211	124	242	
Link Distance (ft)		941	941		290	290		394		694	
Upstream Blk Time (%)					1	3					
Queuing Penalty (veh)					7	15					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	18		7	20		6	22	2	28	
Queuing Penalty (veh)	2	11		32	20		12	18	5	18	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	66	220	212	156	277	291	100	177	95	175	
Average Queue (ft)	35	137	120	81	207	229	52	104	51	109	
95th Queue (ft)	73	226	217	168	291	310	102	179	102	180	
Link Distance (ft)		941	941		290	290		394		694	
Upstream Blk Time (%)					0	1					
Queuing Penalty (veh)					1	3					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	11		5	16		2	16	4	18	
Queuing Penalty (veh)	1	6		21	13		3	11	7	10	

Intersection: 3: 500 East & 3300 South, All Intervals

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	125	288	267	238	298	302	149	222	144	240	
Average Queue (ft)	34	146	126	79	206	230	61	107	52	118	
95th Queue (ft)	93	242	229	178	304	320	120	189	108	207	
Link Distance (ft)		941	941		290	290		394		694	
Upstream Blk Time (%)					1	1					
Queuing Penalty (veh)					3	7					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	13		5	17		4	17	2	21	
Queuing Penalty (veh)	1	7		21	14		7	13	5	12	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	T	Т	Т	TR	L
Maximum Queue (ft)	191	313	351	225	384	408	199	396	371	328	230	348
Average Queue (ft)	123	223	258	137	276	294	132	310	285	233	152	227
95th Queue (ft)	206	358	388	249	409	441	216	419	391	339	258	354
Link Distance (ft)		1147	1147		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	2	10		33	55			0				0
Queuing Penalty (veh)	6	17		115	83			1				0

Movement	SB	SB	SB	SB
Directions Served	T	T	T	TR
Maximum Queue (ft)	481	442	344	231
Average Queue (ft)	380	354	271	168
95th Queue (ft)	503	476	376	256
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)	4			
Queuing Penalty (veh)	11			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	Т	Т	Т	TR	L
Maximum Queue (ft)	254	323	345	252	393	394	202	370	343	302	212	297
Average Queue (ft)	145	217	247	159	306	306	124	293	274	225	132	190
95th Queue (ft)	253	343	368	294	431	415	229	384	360	318	237	317
Link Distance (ft)		1147	1147		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	7	10		33	52			0				
Queuing Penalty (veh)	26	16		114	79			0				

Movement	SB	SB	SB	SB
Directions Served	T	T	T	TR
Maximum Queue (ft)	439	416	348	234
Average Queue (ft)	357	329	251	154
95th Queue (ft)	456	429	358	248
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)	2			
Queuing Penalty (veh)	4			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	T	T	Т	TR	L
Maximum Queue (ft)	299	413	427	400	590	589	257	513	479	431	338	480
Average Queue (ft)	204	284	309	270	455	456	177	412	385	329	250	350
95th Queue (ft)	367	452	480	487	718	700	304	570	532	469	382	546
Link Distance (ft)		1147	1147		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	19	16		53	69			11				2
Queuing Penalty (veh)	79	30		215	121			20				8

Movement	SB	SB	SB	SB
Directions Served	T	Т	T	TR
Maximum Queue (ft)	578	526	432	326
Average Queue (ft)	482	439	354	252
95th Queue (ft)	665	597	505	367
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)	2	0		
Queuing Penalty (veh)	0	0		
Storage Bay Dist (ft)				
Storage Blk Time (%)	17			
Queuing Penalty (veh)	57			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	Т	TR	L	Т	TR	L	T	Т	Т	TR	L
Maximum Queue (ft)	292	362	398	398	658	660	192	491	472	414	320	428
Average Queue (ft)	217	255	281	262	518	515	125	367	344	291	190	256
95th Queue (ft)	371	434	463	487	912	884	219	510	482	432	348	451
Link Distance (ft)		1147	1147		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)					0	0						
Queuing Penalty (veh)					0	0						
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	23	15		36	62			5				1
Queuing Penalty (veh)	83	24		124	94			9				3

Movement	SB	SB	SB	SB
Directions Served	T	T	T	TR
Maximum Queue (ft)	523	480	385	279
Average Queue (ft)	383	357	277	184
95th Queue (ft)	559	504	414	309
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)	0			
Queuing Penalty (veh)	0			
Storage Bay Dist (ft)				
Storage Blk Time (%)	6			
Queuing Penalty (veh)	16			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	T	Т	T	TR	L
Maximum Queue (ft)	328	421	443	400	682	682	272	530	498	438	346	514
Average Queue (ft)	172	245	274	207	389	393	139	346	322	270	181	256
95th Queue (ft)	319	405	432	411	692	679	249	495	465	410	328	448
Link Distance (ft)		1147	1147		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)					0	0						
Queuing Penalty (veh)					0	0						
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	13	13		39	59			4				1
Queuing Penalty (veh)	48	22		142	94			7				3

Intersection: 6: 700 East & 3300 South, All Intervals

Movement	SB	SB	SB	SB
Directions Served	T	Т	T	TR
Maximum Queue (ft)	601	549	453	329
Average Queue (ft)	400	370	288	189
95th Queue (ft)	570	520	430	313
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)	1	0		
Queuing Penalty (veh)	0	0		
Storage Bay Dist (ft)				
Storage Blk Time (%)	7			
Queuing Penalty (veh)	22			

Intersection: 9: 3300 South & 540 East, Interval #1

Movement	EB	WB	WB	SB	
Directions Served	L	T	TR	LR	_
Maximum Queue (ft)	29	23	38	37	
Average Queue (ft)	8	4	7	18	
95th Queue (ft)	29	34	39	47	
Link Distance (ft)		1147	1147	488	
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	25				
Storage Blk Time (%)	3				
Queuing Penalty (veh)	16				

Intersection: 9: 3300 South & 540 East, Interval #2

Movement	EB	WB	WB	SB
Directions Served	L	T	TR	LR
Maximum Queue (ft)	24	10	26	38
Average Queue (ft)	6	1	4	16
95th Queue (ft)	26	16	28	43
Link Distance (ft)		1147	1147	488
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	2			
Queuing Penalty (veh)	10			

Intersection: 9: 3300 South & 540 East, Interval #3

Movement	EB	EB	WB	WB	SB
Directions Served	L	Т	Т	TR	LR
Maximum Queue (ft)	19	5	37	61	38
Average Queue (ft)	4	0	7	11	23
95th Queue (ft)	20	0	42	53	47
Link Distance (ft)		290	1147	1147	488
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	25				
Storage Blk Time (%)	2				
Queuing Penalty (veh)	12				

Intersection: 9: 3300 South & 540 East, Interval #4

Movement	EB	WB	WB	SB	
Directions Served	L	Т	TR	LR	
Maximum Queue (ft)	15	8	16	33	
Average Queue (ft)	3	1	3	12	
95th Queue (ft)	17	13	22	38	
Link Distance (ft)		1147	1147	488	
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	25				
Storage Blk Time (%)	1				
Queuing Penalty (veh)	3				

Intersection: 9: 3300 South & 540 East, All Intervals

Movement	EB	EB	WB	WB	SB
Directions Served	L	Т	T	TR	LR
Maximum Queue (ft)	35	5	62	70	46
Average Queue (ft)	5	0	3	6	17
95th Queue (ft)	23	0	28	37	45
Link Distance (ft)		290	1147	1147	488
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	25				
Storage Blk Time (%)	2				
Queuing Penalty (veh)	10				

Intersection: 11: 500 East & 3360 South, Interval #1

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	30	18
Average Queue (ft)	8	2
95th Queue (ft)	30	15
Link Distance (ft)	490	699
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 11: 500 East & 3360 South, Interval #2

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	24	17
Average Queue (ft)	8	3
95th Queue (ft)	31	20
Link Distance (ft)	490	699
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

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Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	28	20
Average Queue (ft)	7	2
95th Queue (ft)	27	19
Link Distance (ft)	490	699
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 11: 500 East & 3360 South, Interval #4

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	18	19
Average Queue (ft)	5	2
95th Queue (ft)	24	23
Link Distance (ft)	490	699
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 11: 500 East & 3360 South, All Intervals

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	33	38
Average Queue (ft)	7	2
95th Queue (ft)	28	20
Link Distance (ft)	490	699
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary

etwork wide Queuing Penalty, Interval #1: 315	
etwork wide Queuing Penalty, Interval #2: 329	
etwork wide Queuing Penalty, Interval #3: 681	
etwork wide Queuing Penalty, Interval #4: 430	
etwork wide Queuing Penalty, All Intervals: 439	

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Project: South Salt Lake - Wasatch Granite Townhomes TIS

Analysis Period: Existing (2018) Plus Project

Time Period: Evening Peak Hour Project #: UT18-1209

Intersection: 500 East & 3300 South

Type: Signalized

Annroach	Mayamant	Demand	Volume	e Served	Delay/Veh (sec)		
Approach	Movement	Volume	Avg	%	Avg	LOS	
	L	73	72	99	52.6	D	
NB	Т	115	111	97	40.1	D	
ND	R	58	58	100	24.6	С	
	Subtotal	246	241	98	40.1	D	
	L	62	59	96	51.1	D	
SB	Т	131	136	104	44.7	D	
SB	R	56	54	96	29.4	С	
	Subtotal	249	249	100	42.9	D	
	L	53	55	103	21.8	С	
EB	Т	969	978	101	9.3	Α	
EB	R	110	114	104	7.0	Α	
	Subtotal	1,132	1,147	101	9.7	Α	
	L	87	86	99	43.1	D	
WB	Т	858	858	100	17.9	В	
VVD	R	59	61	103	15.8	В	
	Subtotal	1,004	1,005	100	19.9	В	
Total		2,632	2,642	100	19.5	В	

Intersection: 700 East & 3300 South

Type: Signalized

турс.		Olgitalized				
Approach	Movement	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	wovement	Volume	Avg	%	Avg	LOS
	L	173	174	101	67.4	Ε
NB	Т	1,312	1,312	100	59.1	E
IND	R	97	94	97	25.7	С
	Subtotal	1,582	1,580	100	58.0	E
	L	291	287	99	60.9	Ε
SB	Т	1,785	1,780	100	45.9	D
SD	R	126	129	102	21.3	С
	Subtotal	2,202	2,196	100	46.4	D
	L	173	172	99	89.7	F
EB	Т	768	776	101	42.8	D
LD	R	137	133	97	44.2	D
	Subtotal	1,078	1,081	100	50.4	D
	L	157	154	98	95.0	F
WB	Т	721	718	100	75.1	Ε
VVD	R	200	192	96	65.9	E
	Subtotal	1,078	1,064	99	76.3	Ε
Total		5,940	5,921	100	55.7	Ε



Project: South Salt Lake - Wasatch Granite Townhomes TIS

Analysis Period: Existing (2018) Plus Project

Time Period: Evening Peak Hour Project #: UT18-1209

Intersection: 3300 South & 540 East

Type: Unsignalized

Approach	Movement	Demand	Volume	e Served	Delay/Veh (sec)		
Арргоасп	Movement	Volume	Avg	%	Avg	LOS	
	L	7	7	97	31.9	D	
SB	R	11	10	89	14.5	В	
35							
	Subtotal	18	17	94	21.7	С	
	L	10	10	98	9.2	Α	
EB	Т	1,080	1,087	101	1.2	Α	
	Subtotal	1,090	1,097	101	1.3	Α	
	Т	993	994	100	0.5	Α	
WB	R	8	8	97	0.0	Α	
,,,,							
	Subtotal	1,001	1,002	100	0.5	Α	
Total		2,110	2,116	100	1.1	Α	

Intersection: 500 East & 3360 South

Type: Unsignalized

туре:		Unsignalized				
Annyocoh	Mayamant	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	Approach Movement		Avg	%	Avg	LOS
	L	7	9	124	3.1	Α
NB	Т	245	243	99	0.3	Α
	Subtotal	252	252	100	0.4	Α
	Т	326	331	102	1.4	Α
SB	R	3	4	133	1.3	Α
	Subtotal	329	335	102	1.4	Α
	L	1	1	100	3.5	Α
EB	R	7	9	124	3.7	Α
	Subtotal	8	10	125	3.7	Α
Total		589	597	101	1.0	Α



Project: South Salt Lake - Wasatch Granite Townhomes TIS

Analysis Period: Existing (2018) Plus Project

Time Period: Evening Peak Hour Project #: UT18-1209

Intersection: East Access & 3300 South

Type: Unsignalized

Annyosok	Mayamant	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	7	6	83	27.8	D
NB	R	7	9	124	7.7	Α
NB I						_
	Subtotal	14	15	107	15.7	С
	Т	1,070	1,073	100	0.6	Α
EB	R	10	10	98	0.4	Α
	Subtotal	1,080	1,083	100	0.6	Α
	L	12	13	106	8.9	Α
WB	Т	1,008	1,010	100	3.4	Α
""						
	Subtotal	1,020	1,023	100	3.5	Α
Total		2 445	0.404	100	2.1	4
Total		2,115	2,121	100	2.1	Α

Intersection: West Access & 3300 South

Type: Unsignalized

Type.		Ulisighanzeu				
Approach	Movement	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	4	3	75	22.3	С
NB	R	6	6	96	7.3	Α
	Subtotal	10	9	90	12.3	В
	Т	1,074	1,077	100	0.1	Α
EB	R	12	15	122	0.0	Α
	Subtotal	1,086	1,092	101	0.1	Α
	L	8	8	97	5.3	Α
WB	Т	997	998	100	1.0	Α
	Subtotal	1,005	1,006	100	1.0	Α
Total		2,102	2,107	100	0.6	Α

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.4	0.5
Total Delay (hr)	0.1	0.6	0.0	0.2	1.1	0.1	0.3	0.3	0.1	0.2	0.4	0.1
Total Del/Veh (s)	18.8	8.7	5.8	36.2	17.7	16.8	52.2	38.4	23.3	48.2	44.4	29.3
Vehicles Entered	12	227	28	19	210	17	18	27	12	13	32	13
Vehicles Exited	12	232	28	20	220	18	18	26	12	14	32	13
Hourly Exit Rate	48	928	112	80	880	72	72	104	48	56	128	52
Input Volume	51	929	105	83	823	57	70	110	56	59	126	54
% of Volume	94	100	107	96	107	126	103	95	86	95	102	96

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.3
Total Delay (hr)	3.4
Total Del/Veh (s)	18.7
Vehicles Entered	628
Vehicles Exited	645
Hourly Exit Rate	2580
Input Volume	2523
% of Volume	102

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.4	0.5
Total Delay (hr)	0.1	0.6	0.0	0.2	1.0	0.0	0.2	0.3	0.1	0.2	0.5	0.1
Total Del/Veh (s)	19.8	8.4	6.2	37.0	16.9	12.6	52.6	42.6	21.9	52.0	46.0	33.9
Vehicles Entered	13	234	27	22	209	13	15	25	16	15	36	13
Vehicles Exited	13	232	27	22	200	13	14	26	16	15	34	12
Hourly Exit Rate	52	928	108	88	800	52	56	104	64	60	136	48
Input Volume	51	929	105	83	823	57	70	110	56	59	126	54
% of Volume	102	100	103	106	97	91	80	95	114	102	108	89

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.3
Total Delay (hr)	3.4
Total Del/Veh (s)	18.9
Vehicles Entered	638
Vehicles Exited	624
Hourly Exit Rate	2496
Input Volume	2523
% of Volume	99

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	1.9	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.4	0.3
Total Delay (hr)	0.1	0.9	0.1	0.4	1.2	0.1	0.3	0.3	0.1	0.2	0.4	0.1
Total Del/Veh (s)	25.2	10.8	8.5	58.5	19.6	19.2	47.2	36.6	23.9	43.0	38.3	27.3
Vehicles Entered	16	282	34	21	219	14	21	32	16	17	36	15
Vehicles Exited	15	283	33	19	228	14	22	31	15	17	38	15
Hourly Exit Rate	60	1132	132	76	912	56	88	124	60	68	152	60
Input Volume	60	1089	124	98	965	66	82	129	65	70	147	63
% of Volume	100	104	106	78	95	85	107	96	92	97	103	95

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.2
Total Del/Veh (s)	20.3
Vehicles Entered	723
Vehicles Exited	730
Hourly Exit Rate	2920
Input Volume	2958
% of Volume	99

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.4	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.4	0.5
Total Delay (hr)	0.1	0.5	0.1	0.2	1.0	0.1	0.3	0.3	0.1	0.2	0.4	0.1
Total Del/Veh (s)	18.2	7.9	6.9	34.2	16.2	14.4	51.4	39.3	28.0	49.1	42.0	25.7
Vehicles Entered	13	233	26	23	220	16	18	28	14	14	32	14
Vehicles Exited	14	232	26	24	211	16	17	28	15	13	31	14
Hourly Exit Rate	56	928	104	96	844	64	68	112	60	52	124	56
Input Volume	51	929	105	83	823	57	70	110	56	59	126	54
% of Volume	110	100	99	116	103	112	97	102	107	88	98	104

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.3
Total Delay (hr)	3.4
Total Del/Veh (s)	18.1
Vehicles Entered	651
Vehicles Exited	641
Hourly Exit Rate	2564
Input Volume	2523
% of Volume	102

3: 500 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Denied Del/Veh (s)	2.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.4	0.4
Total Delay (hr)	0.3	2.5	0.2	1.0	4.3	0.3	1.1	1.3	0.4	0.9	1.7	0.4
Total Del/Veh (s)	21.8	9.3	7.0	43.1	17.9	15.8	52.6	40.1	24.6	51.1	44.7	29.4
Vehicles Entered	54	976	114	86	858	60	72	112	59	60	136	54
Vehicles Exited	55	978	114	86	858	61	72	111	58	59	136	54
Hourly Exit Rate	55	978	114	86	858	61	72	111	58	59	136	54
Input Volume	53	969	110	87	858	59	73	115	58	62	131	56
% of Volume	103	101	104	99	100	103	99	97	100	96	104	96

3: 500 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.3
Total Delay (hr)	14.5
Total Del/Veh (s)	19.5
Vehicles Entered	2641
Vehicles Exited	2642
Hourly Exit Rate	2642
Input Volume	2632
% of Volume	100

6: 700 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.5	0.3	0.4	2.3	0.1	0.2	1.9	0.2	0.3
Total Delay (hr)	0.7	1.6	0.3	0.6	3.3	0.7	1.0	4.6	0.1	1.1	4.8	0.2
Total Del/Veh (s)	62.0	31.3	28.6	55.4	62.3	55.8	72.6	48.0	17.1	50.6	36.4	17.7
Vehicles Entered	37	180	31	37	181	46	45	317	21	69	425	31
Vehicles Exited	36	170	29	35	167	43	44	335	22	73	458	33
Hourly Exit Rate	144	680	116	140	668	172	176	1340	88	292	1832	132
Input Volume	166	736	131	151	691	192	166	1258	93	279	1711	121
% of Volume	87	92	89	93	97	90	106	107	95	105	107	109

6: 700 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.4
Total Delay (hr)	19.0
Total Del/Veh (s)	44.3
Vehicles Entered	1420
Vehicles Exited	1445
Hourly Exit Rate	5780
Input Volume	5695
% of Volume	101

6: 700 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.7	0.3	0.3	2.2	0.1	0.2	2.0	0.2	0.3
Total Delay (hr)	1.0	1.8	0.3	0.7	2.7	0.6	0.7	4.5	0.1	1.1	5.3	0.2
Total Del/Veh (s)	74.9	32.4	30.9	58.7	51.8	41.3	55.2	49.0	17.4	55.7	42.4	22.2
Vehicles Entered	44	189	32	37	168	46	42	317	23	68	436	32
Vehicles Exited	46	200	33	38	184	49	43	296	22	67	405	31
Hourly Exit Rate	184	800	132	152	736	196	172	1184	88	268	1620	124
Input Volume	166	736	131	151	691	192	166	1258	93	279	1711	121
% of Volume	111	109	101	101	107	102	104	94	95	96	95	102

6: 700 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.4
Total Delay (hr)	19.2
Total Del/Veh (s)	45.0
Vehicles Entered	1434
Vehicles Exited	1414
Hourly Exit Rate	5656
Input Volume	5695
% of Volume	99

6: 700 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.5	0.3	0.3	2.1	0.1	0.2	1.8	0.2	0.3
Total Delay (hr)	1.2	3.2	0.6	1.3	4.2	1.1	1.0	7.2	0.3	1.5	7.2	0.2
Total Del/Veh (s)	87.1	51.2	54.0	105.8	72.1	66.0	70.6	65.1	35.6	65.5	48.7	23.4
Vehicles Entered	46	218	38	41	200	57	47	364	25	78	488	35
Vehicles Exited	42	198	37	34	170	50	46	367	26	79	510	35
Hourly Exit Rate	168	792	148	136	680	200	184	1468	104	316	2040	140
Input Volume	194	863	154	176	810	225	194	1474	109	327	2006	142
% of Volume	87	92	96	77	84	89	95	100	95	97	102	99

6: 700 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.4
Total Delay (hr)	29.0
Total Del/Veh (s)	59.6
Vehicles Entered	1637
Vehicles Exited	1594
Hourly Exit Rate	6376
Input Volume	6674
% of Volume	96

6: 700 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.3	0.3	2.2	0.1	0.2	1.9	0.2	0.3
Total Delay (hr)	1.4	2.7	0.5	1.5	5.1	1.2	0.6	5.7	0.2	1.2	6.0	0.2
Total Del/Veh (s)	102.2	45.1	48.9	111.4	86.5	76.8	48.5	59.8	25.7	56.3	47.7	19.8
Vehicles Entered	44	190	32	40	175	47	40	316	25	70	428	31
Vehicles Exited	48	208	35	46	197	51	41	314	24	68	407	30
Hourly Exit Rate	192	832	140	184	788	204	164	1256	96	272	1628	120
Input Volume	166	736	131	151	691	192	166	1258	93	279	1711	121
% of Volume	116	113	107	122	114	106	99	100	103	97	95	99

6: 700 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.4
Total Delay (hr)	26.4
Total Del/Veh (s)	59.4
Vehicles Entered	1438
Vehicles Exited	1469
Hourly Exit Rate	5876
Input Volume	5695
% of Volume	103

6: 700 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.2	0.1	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.3	0.3	2.2	0.1	0.2	1.9	0.2	0.3
Total Delay (hr)	4.4	9.3	1.6	4.2	15.3	3.6	3.3	22.1	0.7	5.0	23.2	0.8
Total Del/Veh (s)	89.7	42.8	44.2	95.0	75.1	65.9	67.4	59.1	25.7	60.9	45.9	21.3
Vehicles Entered	172	777	133	155	724	195	174	1314	95	286	1777	129
Vehicles Exited	172	776	133	154	718	192	174	1312	94	287	1780	129
Hourly Exit Rate	172	776	133	154	718	192	174	1312	94	287	1780	129
Input Volume	173	768	137	157	721	200	173	1312	97	291	1785	126
% of Volume	99	101	97	98	100	96	101	100	97	99	100	102

6: 700 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	0.6
Denied Del/Veh (s)	0.4
Total Delay (hr)	93.5
Total Del/Veh (s)	55.7
Vehicles Entered	5931
Vehicles Exited	5921
Hourly Exit Rate	5921
Input Volume	5940
% of Volume	100

9: 3300 South & 540 East Performance by movement Interval #1 4:00

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.2	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.2
Total Del/Veh (s)	13.0	1.1	0.5	0.0	36.2	16.6	1.1
Vehicles Entered	2	255	244	2	2	2	507
Vehicles Exited	2	252	245	2	2	2	505
Hourly Exit Rate	8	1008	980	8	8	8	2020
Input Volume	10	1036	952	8	7	11	2024
% of Volume	80	97	103	100	114	73	100

9: 3300 South & 540 East Performance by movement Interval #2 4:15

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	9.8	1.1	0.4	0.0	21.5	11.2	1.0
Vehicles Entered	3	261	243	2	2	2	513
Vehicles Exited	3	264	242	2	2	2	515
Hourly Exit Rate	12	1056	968	8	8	8	2060
Input Volume	10	1036	952	8	7	11	2024
% of Volume	120	102	102	100	114	73	102

9: 3300 South & 540 East Performance by movement Interval #3 4:30

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.2
Total Del/Veh (s)	8.2	1.4	0.5	0.0	38.3	13.3	1.2
Vehicles Entered	2	312	251	2	2	3	572
Vehicles Exited	2	309	252	2	2	2	569
Hourly Exit Rate	8	1236	1008	8	8	8	2276
Input Volume	11	1213	1117	9	8	12	2370
% of Volume	73	102	90	89	100	67	96

9: 3300 South & 540 East Performance by movement Interval #4 4:45

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	10.3	1.1	0.5	0.0	30.9	12.5	1.0
Vehicles Entered	2	258	256	2	1	3	522
Vehicles Exited	2	262	255	2	1	3	525
Hourly Exit Rate	8	1048	1020	8	4	12	2100
Input Volume	10	1036	952	8	7	11	2024
% of Volume	80	101	107	100	57	109	104

9: 3300 South & 540 East Performance by movement Entire Run

h 4	EDI	EDT	WDT	WDD	CDI	CDD	A 11
Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.4	0.1	0.0	0.1	0.0	0.6
Total Del/Veh (s)	9.2	1.2	0.5	0.0	31.9	14.5	1.1
Vehicles Entered	10	1087	994	8	7	10	2116
Vehicles Exited	10	1087	994	8	7	10	2116
Hourly Exit Rate	10	1087	994	8	7	10	2116
Input Volume	10	1080	993	8	7	11	2110
% of Volume	98	101	100	97	97	89	100

11: 500 East & 3360 South Performance by movement Interval #1 4:00

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)		0.1	0.2	0.2	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)		3.4	3.3	0.3	1.4	0.8	1.0
Vehicles Entered	0	2	3	56	78	2	141
Vehicles Exited	0	2	3	56	80	2	143
Hourly Exit Rate	0	8	12	224	320	8	572
Input Volume	1	7	7	235	312	3	565
% of Volume	0	114	171	95	103	267	101

11: 500 East & 3360 South Performance by movement Interval #2 4:15

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)		0.1	0.2	0.2	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)		3.4	3.2	0.2	1.4	1.6	1.0
Vehicles Entered	0	3	2	56	83	1	145
Vehicles Exited	0	3	2	57	81	1	144
Hourly Exit Rate	0	12	8	228	324	4	576
Input Volume	1	7	7	235	312	3	565
% of Volume	0	171	114	97	104	133	102

11: 500 East & 3360 South Performance by movement Interval #3 4:30

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)		0.1	0.3	0.3	0.0		0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)		5.0	3.5	0.5	1.3	0.5	1.0
Vehicles Entered	0	2	2	70	90	0	164
Vehicles Exited	0	2	2	70	92	1	167
Hourly Exit Rate	0	8	8	280	368	4	668
Input Volume	1	8	8	275	366	3	661
% of Volume	0	100	100	102	101	133	101

11: 500 East & 3360 South Performance by movement Interval #4 4:45

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)		0.1	0.3	0.2	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Del/Veh (s)		3.2	2.1	0.3	1.3	1.5	0.9
Vehicles Entered	0	2	1	60	81	1	145
Vehicles Exited	0	2	2	60	78	1	143
Hourly Exit Rate	0	8	8	240	312	4	572
Input Volume	1	7	7	235	312	3	565
% of Volume	0	114	114	102	100	133	101

11: 500 East & 3360 South Performance by movement Entire Run

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.0	0.0	0.1
Total Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.2
Total Del/Veh (s)	3.5	3.7	3.1	0.3	1.4	1.3	1.0
Vehicles Entered	1	9	8	243	331	4	596
Vehicles Exited	1	9	9	243	331	4	597
Hourly Exit Rate	1	9	9	243	331	4	597
Input Volume	1	7	7	245	326	3	589
% of Volume	100	124	124	99	102	133	101

14: East Access & 3300 South Performance by movement Interval #1 4:00

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.2	0.0	0.0	0.3
Total Del/Veh (s)	0.5	0.3	7.1	3.3	17.6	8.7	2.0
Vehicles Entered	250	2	3	241	2	1	499
Vehicles Exited	246	2	3	244	2	1	498
Hourly Exit Rate	984	8	12	976	8	4	1992
Input Volume	1026	10	12	966	7	7	2028
% of Volume	96	80	100	101	114	57	98

14: East Access & 3300 South Performance by movement Interval #2 4:15

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.2	0.0	0.0	0.3
Total Del/Veh (s)	0.6	0.4	5.9	3.4	23.0	7.8	2.1
Vehicles Entered	259	2	3	254	1	2	521
Vehicles Exited	263	2	3	253	1	2	524
Hourly Exit Rate	1052	8	12	1012	4	8	2096
Input Volume	1026	10	12	966	7	7	2028
% of Volume	103	80	100	105	57	114	103

14: East Access & 3300 South Performance by movement Interval #3 4:30

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.0	0.0	0.2	0.0	0.0	0.3
Total Del/Veh (s)	0.7	0.5	11.2	3.3	33.7	9.6	2.1
Vehicles Entered	304	3	2	249	2	2	562
Vehicles Exited	300	3	3	250	2	2	560
Hourly Exit Rate	1200	12	12	1000	8	8	2240
Input Volume	1203	11	13	1133	8	8	2376
% of Volume	100	109	92	88	100	100	94

14: East Access & 3300 South Performance by movement Interval #4 4:45

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.0	0.0	0.3	0.0	0.0	0.3
Total Del/Veh (s)	0.7	0.6	9.3	3.5	20.8	8.7	2.3
Vehicles Entered	261	2	4	264	2	3	536
Vehicles Exited	264	2	4	264	2	2	538
Hourly Exit Rate	1056	8	16	1056	8	8	2152
Input Volume	1026	10	12	966	7	7	2028
% of Volume	103	80	133	109	114	114	106

14: East Access & 3300 South Performance by movement Entire Run

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0	
Total Delay (hr)	0.2	0.0	0.0	1.0	0.0	0.0	1.3	
Total Del/Veh (s)	0.6	0.4	8.9	3.4	27.8	7.7	2.1	
Vehicles Entered	1073	10	13	1008	6	9	2119	
Vehicles Exited	1073	10	13	1010	6	9	2121	
Hourly Exit Rate	1073	10	13	1010	6	9	2121	
Input Volume	1070	10	12	1008	7	7	2115	
% of Volume	100	98	106	100	83	124	100	

16: West Access & 3300 South Performance by movement Interval #1 4:00

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Total Del/Veh (s)	0.1	0.0	5.7	1.1	24.2	10.4	0.7
Vehicles Entered	251	2	2	242	1	2	500
Vehicles Exited	250	2	2	245	1	2	502
Hourly Exit Rate	1000	8	8	980	4	8	2008
Input Volume	1030	12	8	956	4	6	2016
% of Volume	97	67	100	103	100	133	100

16: West Access & 3300 South Performance by movement Interval #2 4:15

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Total Del/Veh (s)	0.1	0.0	7.1	0.9	15.5	4.7	0.6
Vehicles Entered	259	6	2	249	1	1	518
Vehicles Exited	260	6	2	245	1	2	516
Hourly Exit Rate	1040	24	8	980	4	8	2064
Input Volume	1030	12	8	956	4	6	2016
% of Volume	101	200	100	103	100	133	102

16: West Access & 3300 South Performance by movement Interval #3 4:30

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0	
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1	
Total Del/Veh (s)	0.1	0.0	4.5	1.0	29.0	5.4	0.6	
Vehicles Entered	307	4	2	247	1	1	562	
Vehicles Exited	305	4	2	251	1	1	564	
Hourly Exit Rate	1220	16	8	1004	4	4	2256	
Input Volume	1207	13	9	1120	4	7	2360	
% of Volume	101	123	89	90	100	57	96	

16: West Access & 3300 South Performance by movement Interval #4 4:45

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Total Del/Veh (s)	0.1	0.0	4.0	1.0	20.5	8.1	0.6
Vehicles Entered	260	3	2	261	1	1	528
Vehicles Exited	262	3	2	257	1	1	526
Hourly Exit Rate	1048	12	8	1028	4	4	2104
Input Volume	1030	12	8	956	4	6	2016
% of Volume	102	100	100	108	100	67	104

16: West Access & 3300 South Performance by movement Entire Run

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
	LDI	LDK	VVDL	WDI	NDL	NDK	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.3	0.0	0.0	0.4
Total Del/Veh (s)	0.1	0.0	5.3	1.0	22.3	7.3	0.6
Vehicles Entered	1077	15	8	998	3	6	2107
Vehicles Exited	1077	15	8	998	3	6	2107
Hourly Exit Rate	1077	15	8	998	3	6	2107
Input Volume	1074	12	8	997	4	6	2102
% of Volume	100	122	97	100	75	96	100

Total Network Performance By Interval

Interval Start	4:00	4:15	4:30	4:45	All
Denied Delay (hr)	0.2	0.2	0.2	0.2	0.8
Denied Del/Veh (s)	0.5	0.4	0.5	0.4	0.5
Total Delay (hr)	24.7	24.8	35.9	32.1	117.5
Total Del/Veh (s)	50.0	50.5	64.0	62.3	62.6
Vehicles Entered	1568	1577	1820	1578	6547
Vehicles Exited	1596	1559	1746	1635	6535
Hourly Exit Rate	6384	6236	6984	6540	6535
Input Volume	21112	21112	24729	21112	22016
% of Volume	30	30	28	31	30

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	66	219	210	168	284	288	96	148	116	217	
Average Queue (ft)	29	141	118	69	203	224	61	93	54	126	
95th Queue (ft)	69	230	214	171	296	310	113	167	126	241	
Link Distance (ft)		941	941		290	290		394		694	
Upstream Blk Time (%)					1	1					
Queuing Penalty (veh)					3	7					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	15		2	18		3	12	1	20	
Queuing Penalty (veh)	1	8		9	15		4	9	2	12	

Intersection: 3: 500 East & 3300 South, Interval #2

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	65	194	187	177	282	292	89	172	123	226	
Average Queue (ft)	33	140	128	76	205	226	52	103	57	125	
95th Queue (ft)	73	216	205	180	304	321	93	177	124	224	
Link Distance (ft)		941	941		290	290		394		694	
Upstream Blk Time (%)					0	1					
Queuing Penalty (veh)					2	5					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	13		4	16		2	15	3	23	
Queuing Penalty (veh)	2	7		18	13		4	11	6	14	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Τ	TR	L	Τ	TR	L	TR	L	TR	
Maximum Queue (ft)	94	274	264	186	295	297	158	234	109	214	
Average Queue (ft)	36	174	168	75	223	243	85	124	57	128	
95th Queue (ft)	82	283	276	172	309	322	162	244	117	226	
Link Distance (ft)		941	941		290	290		394		694	
Upstream Blk Time (%)					1	2					
Queuing Penalty (veh)					7	12					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	1	19		8	21		7	15	3	21	
Queuing Penalty (veh)	5	11		36	21		13	13	6	14	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	62	212	198	164	281	292	113	163	104	177	
Average Queue (ft)	33	133	118	77	208	231	58	103	47	108	
95th Queue (ft)	69	224	210	175	317	333	110	170	87	174	
Link Distance (ft)		941	941		290	290		394		694	
Upstream Blk Time (%)					1	2					
Queuing Penalty (veh)					3	9					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	11		6	15		3	18	2	19	
Queuing Penalty (veh)	1	6		24	13		5	12	4	11	

Intersection: 3: 500 East & 3300 South, All Intervals

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	99	276	264	229	298	302	166	245	172	268	
Average Queue (ft)	32	147	133	74	210	231	64	106	54	122	
95th Queue (ft)	74	243	233	175	308	323	125	194	115	219	
Link Distance (ft)		941	941		290	290		394		694	
Upstream Blk Time (%)					1	2					
Queuing Penalty (veh)					4	8					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	15		5	18		4	15	2	21	
Queuing Penalty (veh)	2	8		22	15		7	11	4	13	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	Т	Т	T	TR	L
Maximum Queue (ft)	205	322	342	305	470	455	233	397	373	329	222	344
Average Queue (ft)	135	216	238	161	341	345	158	312	284	230	145	232
95th Queue (ft)	240	333	358	360	577	562	259	410	384	329	230	346
Link Distance (ft)		783	783		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	5	9		23	60			0				0
Queuing Penalty (veh)	17	15		79	91			1				0

Movement	SB	SB	SB	SB
Directions Served	T	T	T	TR
Maximum Queue (ft)	459	441	346	273
Average Queue (ft)	373	345	264	177
95th Queue (ft)	471	453	365	284
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)	2			
Queuing Penalty (veh)	6			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	Т	Т	T	TR	L
Maximum Queue (ft)	254	335	364	292	463	442	206	388	373	321	225	375
Average Queue (ft)	177	243	270	152	323	320	141	305	282	234	144	225
95th Queue (ft)	305	374	406	323	506	483	234	398	377	330	250	394
Link Distance (ft)		783	783		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	17	13		27	54			0				0
Queuing Penalty (veh)	61	21		92	82			0				0

Movement	SB	SB	SB	SB
Directions Served	T	Т	T	TR
Maximum Queue (ft)	461	433	377	249
Average Queue (ft)	372	341	267	179
95th Queue (ft)	479	443	387	259
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)	3			
Queuing Penalty (veh)	8			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	Т	Т	T	TR	L
Maximum Queue (ft)	375	494	516	372	579	543	235	489	460	406	298	481
Average Queue (ft)	239	350	377	245	409	412	155	378	353	299	214	321
95th Queue (ft)	465	608	628	451	709	692	254	524	506	448	339	529
Link Distance (ft)		783	783		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)		0	0									
Queuing Penalty (veh)		0	1									
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	19	33		51	64			6				2
Queuing Penalty (veh)	79	65		205	112			12				10

Movement	SB	SB	SB	SB
Directions Served	T	T	T	TR
Maximum Queue (ft)	595	516	419	334
Average Queue (ft)	473	425	337	234
95th Queue (ft)	644	554	455	346
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)	1			
Queuing Penalty (veh)	0			
Storage Bay Dist (ft)				
Storage Blk Time (%)	14			
Queuing Penalty (veh)	46			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	T	Т	Т	TR	L
Maximum Queue (ft)	316	452	479	365	652	644	186	444	426	378	280	353
Average Queue (ft)	227	309	344	277	526	517	125	355	332	272	183	216
95th Queue (ft)	453	590	611	480	839	804	202	479	460	407	309	369
Link Distance (ft)		783	783		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)		0	0									
Queuing Penalty (veh)		2	2									
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	27	23		52	61			2				0
Queuing Penalty (veh)	97	38		179	92			4				0

Movement	SB	SB	SB	SB
Directions Served	T	T	T	TR
Maximum Queue (ft)	499	469	378	264
Average Queue (ft)	397	371	292	182
95th Queue (ft)	521	490	399	293
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)	6			
Queuing Penalty (veh)	18			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	T	Т	Т	TR	L
Maximum Queue (ft)	393	504	527	400	708	674	268	502	473	434	313	490
Average Queue (ft)	195	280	307	209	400	399	145	337	313	259	171	249
95th Queue (ft)	387	507	531	423	694	672	240	465	444	389	293	427
Link Distance (ft)		783	783		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)		0	0									
Queuing Penalty (veh)		0	1									
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	17	19		38	60			2				1
Queuing Penalty (veh)	63	35		139	94			4				3

Intersection: 6: 700 East & 3300 South, All Intervals

Movement	SB	SB	SB	SB
Directions Served	T	T	T	TR
Maximum Queue (ft)	618	528	440	343
Average Queue (ft)	404	370	290	193
95th Queue (ft)	549	498	412	304
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)	0			
Queuing Penalty (veh)	0			
Storage Bay Dist (ft)				
Storage Blk Time (%)	6			
Queuing Penalty (veh)	19			

Intersection: 9: 3300 South & 540 East, Interval #1

Movement	EB	WB	WB	SB
Directions Served	L	T	TR	LR
Maximum Queue (ft)	21	11	27	35
Average Queue (ft)	5	2	6	17
95th Queue (ft)	24	16	28	45
Link Distance (ft)		8	8	488
Upstream Blk Time (%)		0	1	
Queuing Penalty (veh)		2	6	
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	2			
Queuing Penalty (veh)	12			

Intersection: 9: 3300 South & 540 East, Interval #2

Movement	EB	WB	WB	SB
Directions Served	L	T	TR	LR
Maximum Queue (ft)	28	3	22	35
Average Queue (ft)	7	0	5	17
95th Queue (ft)	27	6	25	43
Link Distance (ft)		8	8	488
Upstream Blk Time (%)		0	1	
Queuing Penalty (veh)		1	3	
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	2			
Queuing Penalty (veh)	13			

Intersection: 9: 3300 South & 540 East, Interval #3

Movement	EB	WB	WB	SB
Directions Served	L	Т	TR	LR
Maximum Queue (ft)	18	27	31	38
Average Queue (ft)	4	4	6	19
95th Queue (ft)	20	25	26	47
Link Distance (ft)		8	8	488
Upstream Blk Time (%)		1	2	
Queuing Penalty (veh)		4	9	
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	1			
Queuing Penalty (veh)	7			

Intersection: 9: 3300 South & 540 East, Interval #4

Movement	EB	EB	WB	WB	SB
Directions Served	L	T	T	TR	LR
Maximum Queue (ft)	32	2	9	50	40
Average Queue (ft)	4	0	1	12	16
95th Queue (ft)	21	5	12	47	45
Link Distance (ft)		290	8	8	488
Upstream Blk Time (%)			0	2	
Queuing Penalty (veh)			1	9	
Storage Bay Dist (ft)	25				
Storage Blk Time (%)	2				
Queuing Penalty (veh)	8				

Intersection: 9: 3300 South & 540 East, All Intervals

Movement	EB	EB	WB	WB	SB
Directions Served	L	Т	T	TR	LR
Maximum Queue (ft)	33	2	37	53	48
Average Queue (ft)	5	0	2	7	17
95th Queue (ft)	23	2	16	33	45
Link Distance (ft)		290	8	8	488
Upstream Blk Time (%)			0	1	
Queuing Penalty (veh)			2	7	
Storage Bay Dist (ft)	25				
Storage Blk Time (%)	2				
Queuing Penalty (veh)	10				

Intersection: 11: 500 East & 3360 South, Interval #1

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	30	22
Average Queue (ft)	8	5
95th Queue (ft)	30	27
Link Distance (ft)	490	699
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 11: 500 East & 3360 South, Interval #2

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	28	9
Average Queue (ft)	9	1
95th Queue (ft)	32	12
Link Distance (ft)	490	699
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

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Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	31	24
Average Queue (ft)	9	4
95th Queue (ft)	31	23
Link Distance (ft)	490	699
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 11: 500 East & 3360 South, Interval #4

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	28	12
Average Queue (ft)	8	2
95th Queue (ft)	31	13
Link Distance (ft)	490	699
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 11: 500 East & 3360 South, All Intervals

Movement	EB	NB
Directions Served	LR	LT
Maximum Queue (ft)	31	35
Average Queue (ft)	9	3
95th Queue (ft)	31	20
Link Distance (ft)	490	699
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

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Intersection: 14: East Access & 3300 South, Interval #1

Movement	WB	NB
	VVD	
Directions Served	L	LR
Maximum Queue (ft)	30	31
Average Queue (ft)	8	12
95th Queue (ft)	29	36
Link Distance (ft)		361
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 14: East Access & 3300 South, Interval #2

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	21	31
Average Queue (ft)	5	11
95th Queue (ft)	24	35
Link Distance (ft)		361
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 14: East Access & 3300 South, Interval #3

Movement	EB	EB	WB	NB
Directions Served	T	TR	L	LR
Maximum Queue (ft)	5	10	28	41
Average Queue (ft)	1	2	8	18
95th Queue (ft)	11	22	29	47
Link Distance (ft)	243	243		361
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)			100	
Storage Blk Time (%)				
Queuing Penalty (veh)				

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Intersection: 14: East Access & 3300 South, Interval #4

Movement	EB	EB	WB	NB
Directions Served	T	TR	L	LR
Maximum Queue (ft)	20	18	29	40
Average Queue (ft)	3	4	7	13
95th Queue (ft)	32	36	28	42
Link Distance (ft)	243	243		361
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)			100	
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 14: East Access & 3300 South, All Intervals

Movement	EB	EB	WB	NB
Directions Served	T	TR	L	LR
Maximum Queue (ft)	20	18	33	46
Average Queue (ft)	1	1	7	13
95th Queue (ft)	16	20	28	40
Link Distance (ft)	243	243		361
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)			100	
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 16: West Access & 3300 South, Interval #1

Movement	WB	WB	WB	NB	
Directions Served	L	Т	T	LR	
Maximum Queue (ft)	18	20	28	33	
Average Queue (ft)	4	1	4	10	
95th Queue (ft)	21	13	26	36	
Link Distance (ft)		243	243	303	
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	100				
Storage Blk Time (%)		0			
Queuing Penalty (veh)		0			

Intersection: 16: West Access & 3300 South, Interval #2

Movement	WB	WB	WB	NB
Directions Served	L	Т	T	LR
Maximum Queue (ft)	18	8	17	32
Average Queue (ft)	6	1	2	9
95th Queue (ft)	24	17	20	32
Link Distance (ft)		243	243	303
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	100			
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 16: West Access & 3300 South, Interval #3

Movement	WB	WB	WB	NB
Directions Served	L	Т	T	LR
Maximum Queue (ft)	18	20	37	30
Average Queue (ft)	3	3	5	9
95th Queue (ft)	17	28	38	32
Link Distance (ft)		243	243	303
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	100			
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 16: West Access & 3300 South, Interval #4

Movement	WB	WB	WB	NB	
Directions Served	L	T	Т	LR	
Maximum Queue (ft)	18	3	27	28	
Average Queue (ft)	3	0	5	8	
95th Queue (ft)	18	6	27	30	
Link Distance (ft)		243	243	303	
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	100				
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 16: West Access & 3300 South , All Intervals

Movement	WB	WB	WB	NB
Directions Served	L	Т	T	LR
Maximum Queue (ft)	31	46	66	35
Average Queue (ft)	4	1	4	9
95th Queue (ft)	20	18	28	32
Link Distance (ft)		243	243	303
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	100			
Storage Blk Time (%)		0		
Queuing Penalty (veh)		0		

Network Summary

Network wide Queuing Penalty, Interval #1: 298	
Network wide Queuing Penalty, Interval #2: 362	
Network wide Queuing Penalty, Interval #3: 690	
Network wide Queuing Penalty, Interval #4: 539	
Network wide Queuing Penalty, All Intervals: 472	



SimTraffic LOS Report

South Salt Lake - Wasatch Granite Townhomes TIS Project:

Analysis Period: Future (2024) Background Evening Peak Hour

Time Period: Project #: UT18-1209

Intersection: 500 East & 3300 South

Type: Signalized

Annroach	Mayamant	Demand	Volume	e Served	Delay/Vel	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	100	101	101	55.9	Ε
NB	Т	158	161	102	40.3	D
ND	R	95	89	93	29.9	С
	Subtotal	353	351	99	42.2	D
	L	70	65	93	52.6	D
SB	Т	170	174	102	41.7	D
SB	R	60	61	102	30.4	С
	Subtotal	300	300	100	41.8	D
	L	60	61	102	27.0	С
EB	Т	985	982	100	11.8	В
LD	R	146	142	97	9.5	Α
	Subtotal	1,191	1,185	99	12.3	В
	L	110	112	102	57.2	Ε
WB	Т	891	879	99	20.6	С
VVD	R	70	72	103	18.7	В
	Subtotal	1,071	1,063	99	24.3	С
Total		2,914	2,899	99	23.5	С

Intersection: 700 East & 3300 South

Type: Signalized

1) ро.		Cignanzea				
Approach	Movement	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	175	174	99	75.8	Ε
NB	Т	1,390	1,363	98	104.2	F
IND	R	110	108	98	59.7	E
	Subtotal	1,675	1,645	98	98.3	F
	L	335	341	102	79.2	Ε
SB	Т	1,875	1,883	100	53.3	D
SD	R	150	148	99	27.7	С
	Subtotal	2,360	2,372	101	55.4	E
	L	210	200	95	82.0	F
EB	Т	795	794	100	41.9	D
LD	R	145	139	96	43.7	D
	Subtotal	1,150	1,133	99	49.2	D
	L	170	162	95	126.8	F
WB	Т	740	729	99	131.3	F
VVD	R	240	239	100	130.6	F
	Subtotal	1,150	1,130	98	130.5	F
Total		6,335	6,280	99	79.4	Ε



SimTraffic LOS Report

South Salt Lake - Wasatch Granite Townhomes TIS Project:

Analysis Period: Future (2024) Background Evening Peak Hour

Project #: UT18-1209 Time Period:

Intersection: 3300 South & 540 East

Type: Unsignalized

Approach	Movement	Demand	Volume	e Served	Delay/Vel	h (sec)
Арргоасп	Movement	Volume	Avg	%	Avg	LOS
	L	10	10	98	28.0	D
SB	R	15	20	131	14.7	В
35						
	Subtotal	25	30	120	19.1	С
	L	10	10	98	9.9	Α
EB	Т	1,140	1,127	99	1.3	Α
	Subtotal	1,150	1,137	99	1.4	Α
	Т	1,056	1,044	99	4.8	Α
WB	R	10	9	88	3.8	Α

	Subtotal	1,066	1,053	99	4.8	Α
Total		2,242	2,220	99	3.2	Α

Intersection: 500 East & 3360 South

Unsignalized Type:

туре:		Unsignalized				
Annyocoh	Movement	Demand	Volume	e Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	10	9	88	4.4	Α
NB	Т	250	253	101	1.0	Α
IND	R	35	38	109	0.5	Α
	Subtotal	295	300	102	1.0	Α
	L	91	91	100	4.9	Α
SB	Т	330	332	101	2.6	Α
Sb	R	5	5	100	1.5	Α
	Subtotal	426	428	100	3.1	Α
	L	5	4	80	11.9	В
EB	R	10	10	98	3.7	Α
LD						
	Subtotal	15	14	93	6.0	Α
	L	40	43	108	11.6	В
WB	R	97	93	96	5.6	Α
WD						
	Subtotal	137	136	99	7.5	Α
Total		874	878	100	3.1	Α

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.4	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.4	0.5
Total Delay (hr)	0.1	8.0	0.1	0.4	1.3	0.1	0.4	0.4	0.1	0.3	0.5	0.1
Total Del/Veh (s)	26.4	11.5	9.8	56.6	21.3	20.4	49.0	35.6	23.1	50.1	38.2	25.8
Vehicles Entered	15	239	33	25	213	21	23	38	21	17	44	15
Vehicles Exited	15	241	33	26	222	22	24	38	22	18	45	15
Hourly Exit Rate	60	964	132	104	888	88	96	152	88	72	180	60
Input Volume	58	960	142	107	869	68	97	155	93	68	166	58
% of Volume	103	100	93	97	102	129	99	98	95	106	108	103

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.7
Total Del/Veh (s)	22.5
Vehicles Entered	704
Vehicles Exited	721
Hourly Exit Rate	2884
Input Volume	2841
% of Volume	102

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.5	0.5
Total Delay (hr)	0.1	8.0	0.1	0.4	1.2	0.1	0.4	0.4	0.2	0.3	0.5	0.2
Total Del/Veh (s)	25.6	11.4	8.8	48.5	19.8	17.6	51.7	38.8	31.5	54.3	41.4	35.3
Vehicles Entered	16	239	38	29	220	18	25	38	23	16	44	16
Vehicles Exited	16	237	37	29	211	18	24	39	23	16	44	16
Hourly Exit Rate	64	948	148	116	844	72	96	156	92	64	176	64
Input Volume	58	960	142	107	869	68	97	155	93	68	166	58
% of Volume	110	99	104	108	97	106	99	101	99	94	106	110

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.7
Total Del/Veh (s)	22.6
Vehicles Entered	722
Vehicles Exited	710
Hourly Exit Rate	2840
Input Volume	2841
% of Volume	100

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3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.2	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.5	0.4
Total Delay (hr)	0.1	1.0	0.1	0.5	1.4	0.1	0.4	0.5	0.2	0.2	0.5	0.1
Total Del/Veh (s)	28.6	13.1	10.7	61.5	21.0	18.4	52.1	37.6	27.6	47.1	40.6	30.8
Vehicles Entered	17	263	39	29	222	16	27	42	24	16	45	17
Vehicles Exited	17	263	38	28	230	16	27	41	23	16	45	17
Hourly Exit Rate	68	1052	152	112	920	64	108	164	92	64	180	68
Input Volume	65	1059	157	118	958	75	108	169	102	75	183	65
% of Volume	105	99	97	95	96	85	100	97	90	85	98	105

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	5.2
Total Del/Veh (s)	23.8
Vehicles Entered	757
Vehicles Exited	761
Hourly Exit Rate	3044
Input Volume	3134
% of Volume	97

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.5	0.4
Total Delay (hr)	0.1	0.7	0.1	0.4	1.2	0.1	0.5	0.5	0.2	0.3	0.5	0.1
Total Del/Veh (s)	21.6	9.7	7.5	49.4	19.4	17.9	58.2	42.3	32.4	50.1	42.0	27.3
Vehicles Entered	13	242	32	28	225	17	26	42	21	16	41	13
Vehicles Exited	13	241	33	30	215	16	26	43	21	15	39	13
Hourly Exit Rate	52	964	132	120	860	64	104	172	84	60	156	52
Input Volume	58	960	142	107	869	68	97	155	93	68	166	58
% of Volume	90	100	93	112	99	94	107	111	90	88	94	90

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.6
Total Del/Veh (s)	22.3
Vehicles Entered	716
Vehicles Exited	705
Hourly Exit Rate	2820
Input Volume	2841
% of Volume	99

3: 500 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Denied Del/Veh (s)	2.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.5	0.4
Total Delay (hr)	0.5	3.3	0.4	1.8	5.1	0.4	1.6	1.8	0.8	1.0	2.0	0.5
Total Del/Veh (s)	27.0	11.8	9.5	57.2	20.6	18.7	55.9	40.3	29.9	52.6	41.7	30.4
Vehicles Entered	61	982	142	112	880	72	101	161	89	65	173	60
Vehicles Exited	61	982	142	112	879	72	101	161	89	65	174	61
Hourly Exit Rate	61	982	142	112	879	72	101	161	89	65	174	61
Input Volume	60	985	146	110	891	70	100	158	95	70	170	60
% of Volume	102	100	97	102	99	103	101	102	93	93	102	102

3: 500 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.3
Total Delay (hr)	19.2
Total Del/Veh (s)	23.5
Vehicles Entered	2898
Vehicles Exited	2899
Hourly Exit Rate	2899
Input Volume	2914
% of Volume	99

6: 700 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.5	0.6	2.1	0.1	0.2	1.9	0.2	0.4
Total Delay (hr)	1.0	1.7	0.3	1.0	5.7	1.8	0.9	8.5	0.4	1.7	6.7	0.2
Total Del/Veh (s)	64.6	30.8	30.3	84.3	99.9	100.0	71.1	80.5	44.1	64.3	46.5	22.5
Vehicles Entered	49	194	34	40	187	60	40	332	26	84	468	35
Vehicles Exited	47	183	35	36	168	54	44	355	27	88	496	36
Hourly Exit Rate	188	732	140	144	672	216	176	1420	108	352	1984	144
Input Volume	205	775	141	166	721	234	171	1355	107	327	1828	146
% of Volume	92	94	99	87	93	92	103	105	101	108	109	99

6: 700 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.4
Total Delay (hr)	29.9
Total Del/Veh (s)	63.0
Vehicles Entered	1549
Vehicles Exited	1569
Hourly Exit Rate	6276
Input Volume	6176
% of Volume	102

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6: 700 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.4	0.4	2.1	0.1	0.2	1.9	0.2	0.4
Total Delay (hr)	1.1	2.2	0.4	1.4	5.6	1.7	8.0	6.9	0.2	1.7	6.8	0.3
Total Del/Veh (s)	73.4	37.0	40.8	98.7	94.1	90.8	62.0	70.1	28.6	66.8	50.4	22.8
Vehicles Entered	48	198	33	43	179	58	42	329	27	83	462	39
Vehicles Exited	50	208	33	45	196	63	39	314	26	77	438	37
Hourly Exit Rate	200	832	132	180	784	252	156	1256	104	308	1752	148
Input Volume	205	775	141	166	721	234	171	1355	107	327	1828	146
% of Volume	98	107	94	108	109	108	91	93	97	94	96	101

6: 700 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.4
Total Delay (hr)	29.0
Total Del/Veh (s)	62.3
Vehicles Entered	1541
Vehicles Exited	1526
Hourly Exit Rate	6104
Input Volume	6176
% of Volume	99

6: 700 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	3.2	1.0	1.0	2.0	0.1	0.2	1.8	0.3	0.5
Total Delay (hr)	1.2	2.7	0.5	1.6	7.5	2.6	1.1	11.7	0.5	2.2	8.3	0.4
Total Del/Veh (s)	75.4	43.5	45.0	118.8	123.9	125.2	73.8	101.9	62.3	77.0	54.2	33.1
Vehicles Entered	52	211	35	44	198	67	49	373	29	88	504	41
Vehicles Exited	48	196	33	36	171	58	47	351	27	94	523	42
Hourly Exit Rate	192	784	132	144	684	232	188	1404	108	376	2092	168
Input Volume	226	856	156	183	796	258	188	1495	118	360	2016	161
% of Volume	85	92	85	79	86	90	100	94	92	104	104	104

6: 700 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.5
Total Delay (hr)	40.1
Total Del/Veh (s)	78.2
Vehicles Entered	1691
Vehicles Exited	1626
Hourly Exit Rate	6504
Input Volume	6813
% of Volume	95

6: 700 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	11.7	9.2	7.5	2.1	0.1	0.2	2.0	0.3	0.4
Total Delay (hr)	1.5	2.7	0.5	2.0	8.9	2.9	1.0	14.2	0.7	2.3	6.9	0.3
Total Del/Veh (s)	86.5	45.6	48.3	137.6	142.0	140.4	73.2	127.5	83.7	84.9	52.0	27.1
Vehicles Entered	53	194	36	40	178	58	43	341	28	90	448	34
Vehicles Exited	55	207	38	44	195	64	44	342	28	82	426	33
Hourly Exit Rate	220	828	152	176	780	256	176	1368	112	328	1704	132
Input Volume	205	775	141	166	721	234	171	1355	107	327	1828	146
% of Volume	107	107	108	106	108	109	103	101	105	100	93	90

6: 700 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.8
Denied Del/Veh (s)	2.0
Total Delay (hr)	43.9
Total Del/Veh (s)	89.9
Vehicles Entered	1543
Vehicles Exited	1558
Hourly Exit Rate	6232
Input Volume	6176
% of Volume	101

6: 700 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.2	0.6	0.2	0.1	0.1	0.0	0.2	0.1	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	5.0	2.7	2.4	2.1	0.1	0.2	1.9	0.2	0.4
Total Delay (hr)	4.7	9.4	1.7	6.0	27.7	9.0	3.8	41.2	1.9	7.9	28.6	1.2
Total Del/Veh (s)	82.0	41.9	43.7	126.8	131.3	130.6	75.8	104.2	59.7	79.2	53.3	27.7
Vehicles Entered	202	796	138	166	741	243	174	1376	109	345	1883	149
Vehicles Exited	200	794	139	162	729	239	174	1363	108	341	1883	148
Hourly Exit Rate	200	794	139	162	729	239	174	1363	108	341	1883	148
Input Volume	210	795	145	170	740	240	175	1390	110	335	1875	150
% of Volume	95	100	96	95	99	100	99	98	98	102	100	99

6: 700 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	1.4
Denied Del/Veh (s)	0.8
Total Delay (hr)	142.9
Total Del/Veh (s)	79.4
Vehicles Entered	6322
Vehicles Exited	6280
Hourly Exit Rate	6280
Input Volume	6335
% of Volume	99

9: 3300 South & 540 East Performance by movement Interval #1 4:00

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.3	0.0	0.0	0.0	0.5
Total Del/Veh (s)	14.3	1.3	4.8	3.5	20.7	14.0	3.2
Vehicles Entered	2	279	246	2	2	6	537
Vehicles Exited	2	275	253	2	2	6	540
Hourly Exit Rate	8	1100	1012	8	8	24	2160
Input Volume	10	1112	1029	10	10	15	2186
% of Volume	80	99	98	80	80	160	99

9: 3300 South & 540 East Performance by movement Interval #2 4:15

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.2	0.0
Total Delay (hr)	0.0	0.1	0.4	0.0	0.0	0.0	0.5
Total Del/Veh (s)	10.1	1.3	4.8	5.0	18.9	12.7	3.2
Vehicles Entered	3	273	270	2	3	4	555
Vehicles Exited	3	277	263	2	3	4	552
Hourly Exit Rate	12	1108	1052	8	12	16	2208
Input Volume	10	1112	1029	10	10	15	2186
% of Volume	120	100	102	80	120	107	101

9: 3300 South & 540 East Performance by movement Interval #3 4:30

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.0	0.0	0.0	0.1	0.1	0.0	
Total Delay (hr)	0.0	0.1	0.3	0.0	0.0	0.0	0.5	
Total Del/Veh (s)	10.4	1.5	4.5	4.0	33.0	18.3	3.2	
Vehicles Entered	3	300	258	2	3	4	570	
Vehicles Exited	2	294	263	2	3	4	568	
Hourly Exit Rate	8	1176	1052	8	12	16	2272	
Input Volume	11	1226	1135	11	11	16	2410	
% of Volume	73	96	93	73	109	100	94	

9: 3300 South & 540 East Performance by movement Interval #4 4:45

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.4	0.0	0.0	0.0	0.5
Total Del/Veh (s)	4.5	1.2	4.6	4.4	27.5	17.2	3.1
Vehicles Entered	2	275	270	2	2	5	556
Vehicles Exited	2	281	266	2	2	5	558
Hourly Exit Rate	8	1124	1064	8	8	20	2232
Input Volume	10	1112	1029	10	10	15	2186
% of Volume	80	101	103	80	80	133	102

9: 3300 South & 540 East Performance by movement Entire Run

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.4	1.4	0.0	0.1	0.1	2.0
Total Del/Veh (s)	9.9	1.3	4.8	3.8	28.0	14.7	3.2
Vehicles Entered	10	1127	1044	9	10	20	2220
Vehicles Exited	10	1127	1044	9	10	20	2220
Hourly Exit Rate	10	1127	1044	9	10	20	2220
Input Volume	10	1140	1056	10	10	15	2242
% of Volume	98	99	99	88	98	131	99

11: 500 East & 3360 South Performance by movement Interval #1 4:00

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	6.4	4.2	11.4	5.2	5.2	1.0	0.5	4.8	2.7	2.0	3.2	
Vehicles Entered	1	2	10	23	3	59	10	24	79	1	212	
Vehicles Exited	1	2	11	23	3	59	10	24	80	1	214	
Hourly Exit Rate	4	8	44	92	12	236	40	96	320	4	856	
Input Volume	5	10	39	95	10	244	34	89	322	5	853	
% of Volume	80	80	113	97	120	97	118	108	99	80	100	

11: 500 East & 3360 South Performance by movement Interval #2 4:15

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	10.1	3.3	9.2	5.1	4.6	8.0	0.3	4.9	2.5	1.8	2.8	
Vehicles Entered	1	2	9	22	2	62	8	23	85	1	215	
Vehicles Exited	1	3	9	22	2	62	8	23	84	1	215	
Hourly Exit Rate	4	12	36	88	8	248	32	92	336	4	860	
Input Volume	5	10	39	95	10	244	34	89	322	5	853	
% of Volume	80	120	92	93	80	102	94	103	104	80	101	

11: 500 East & 3360 South Performance by movement Interval #3 4:30

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	12.2	5.4	12.9	5.9	3.1	0.9	0.4	5.1	2.6	1.4	3.2	
Vehicles Entered	1	2	11	24	2	68	9	22	87	1	227	
Vehicles Exited	1	2	11	24	2	68	9	23	89	1	230	
Hourly Exit Rate	4	8	44	96	8	272	36	92	356	4	920	
Input Volume	5	11	43	104	11	269	38	98	355	5	939	
% of Volume	80	73	102	92	73	101	95	94	100	80	98	

11: 500 East & 3360 South Performance by movement Interval #4 4:45

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	19.1	3.7	11.6	5.9	4.3	1.1	0.5	4.4	2.4	2.2	3.1	
Vehicles Entered	1	2	12	24	2	64	11	21	80	1	218	
Vehicles Exited	1	2	12	24	2	64	11	21	78	1	216	
Hourly Exit Rate	4	8	48	96	8	256	44	84	312	4	864	
Input Volume	5	10	39	95	10	244	34	89	322	5	853	
% of Volume	80	80	123	101	80	105	129	94	97	80	101	

11: 500 East & 3360 South Performance by movement Entire Run

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.2	0.1	0.2	0.2	0.3	0.3	0.2	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.2	0.0	8.0	
Total Del/Veh (s)	11.9	3.7	11.6	5.6	4.4	1.0	0.5	4.9	2.6	1.5	3.1	
Vehicles Entered	4	10	43	93	9	253	38	91	332	5	878	
Vehicles Exited	4	10	43	93	9	253	38	91	332	5	878	
Hourly Exit Rate	4	10	43	93	9	253	38	91	332	5	878	
Input Volume	5	10	40	97	10	250	35	91	330	5	874	
% of Volume	80	98	108	96	88	101	109	100	101	100	100	

Total Network Performance By Interval

Interval Start	4:00	4:15	4:30	4:45	All
Denied Delay (hr)	0.2	0.2	0.3	0.9	1.7
Denied Del/Veh (s)	0.5	0.5	0.6	1.9	0.9
Total Delay (hr)	37.1	36.2	48.1	51.1	172.5
Total Del/Veh (s)	66.6	65.4	80.0	88.3	83.8
Vehicles Entered	1752	1744	1914	1740	7151
Vehicles Exited	1761	1744	1820	1780	7108
Hourly Exit Rate	7044	6976	7280	7120	7108
Input Volume	19025	19025	20985	19025	19515
% of Volume	37	37	35	37	36

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	83	235	240	200	281	297	121	221	127	230	
Average Queue (ft)	39	162	149	85	225	256	81	140	67	144	
95th Queue (ft)	87	241	242	173	300	322	129	245	136	263	
Link Distance (ft)		941	941		290	290		399		694	
Upstream Blk Time (%)					1	3					
Queuing Penalty (veh)					5	18					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	20		13	24		8	21	4	24	
Queuing Penalty (veh)	1	12		55	25		21	20	10	16	

Intersection: 3: 500 East & 3300 South, Interval #2

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	98	269	247	187	285	296	141	249	118	240	
Average Queue (ft)	52	180	163	103	229	253	78	153	61	146	
95th Queue (ft)	122	274	272	205	312	332	156	257	122	246	
Link Distance (ft)		941	941		290	290		399		694	
Upstream Blk Time (%)					1	3					
Queuing Penalty (veh)					3	14					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	1	19		14	20		8	29	3	32	
Queuing Penalty (veh)	4	11		59	22		19	28	8	22	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	97	296	295	204	283	300	165	252	118	242	
Average Queue (ft)	42	192	184	102	233	252	105	157	58	158	
95th Queue (ft)	83	295	297	200	302	318	187	270	121	266	
Link Distance (ft)		941	941		290	290		399		694	
Upstream Blk Time (%)					1	3					
Queuing Penalty (veh)					6	16					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	1	23		22	24		14	26	3	29	
Queuing Penalty (veh)	5	15		107	28		38	29	8	21	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	63	253	232	218	286	292	173	275	114	219	
Average Queue (ft)	34	160	139	123	231	254	96	165	54	123	
95th Queue (ft)	68	261	247	236	323	326	198	294	101	208	
Link Distance (ft)		941	941		290	290		399		694	
Upstream Blk Time (%)					1	3		0			
Queuing Penalty (veh)					5	13		0			
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	16		15	20		14	33	3	25	
Queuing Penalty (veh)	1	9		67	21		34	32	8	17	

Intersection: 3: 500 East & 3300 South, All Intervals

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	137	315	317	249	300	310	221	315	174	291	
Average Queue (ft)	42	174	159	103	229	254	90	154	60	143	
95th Queue (ft)	93	271	268	206	310	325	172	268	121	248	
Link Distance (ft)		941	941		290	290		399		694	
Upstream Blk Time (%)					1	3		0			
Queuing Penalty (veh)					5	16		0			
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	1	19		16	22		11	27	4	27	
Queuing Penalty (veh)	3	12		72	24		28	27	8	19	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	Т	Т	Т	TR	L
Maximum Queue (ft)	250	335	350	355	643	671	237	496	480	424	342	495
Average Queue (ft)	176	224	253	261	542	545	149	423	404	347	261	321
95th Queue (ft)	295	363	379	497	940	936	270	566	547	475	399	525
Link Distance (ft)		1147	1147		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)					2	2						
Queuing Penalty (veh)					0	0						
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	10	9		30	68			10				6
Queuing Penalty (veh)	38	19		110	113			18				25

Movement	SB	SB	SB	SB
Directions Served	T	T	T	TR
Maximum Queue (ft)	572	484	398	319
Average Queue (ft)	451	398	323	230
95th Queue (ft)	599	511	425	335
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)	0			
Queuing Penalty (veh)	0			
Storage Bay Dist (ft)				
Storage Blk Time (%)	10			
Queuing Penalty (veh)	32			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	T	Т	Т	TR	L
Maximum Queue (ft)	300	403	423	396	719	699	220	500	478	399	290	480
Average Queue (ft)	194	261	287	280	564	563	147	394	364	299	204	299
95th Queue (ft)	354	446	469	498	995	966	257	527	503	433	315	501
Link Distance (ft)		1147	1147		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)					1	1						
Queuing Penalty (veh)					0	0						
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	14	17		45	65			5				2
Queuing Penalty (veh)	56	36		161	107			9				7

Movement	SB	SB	SB	SB
Directions Served	T	Т	T	TR
Maximum Queue (ft)	593	524	419	282
Average Queue (ft)	444	404	325	216
95th Queue (ft)	609	539	448	317
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)	0			
Queuing Penalty (veh)	0			
Storage Bay Dist (ft)				
Storage Blk Time (%)	10			
Queuing Penalty (veh)	32			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	T	TR	L	T	Т	Т	TR	L
Maximum Queue (ft)	380	431	456	395	883	858	414	660	631	563	466	513
Average Queue (ft)	226	301	333	278	704	694	213	508	482	411	327	383
95th Queue (ft)	406	519	555	511	1153	1126	491	729	702	617	518	581
Link Distance (ft)		1147	1147		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)					4	3						
Queuing Penalty (veh)					0	0						
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	18	23		42	71			31				8
Queuing Penalty (veh)	78	52		166	130			58				39

Movement	SB	SB	SB	SB
Directions Served	T	T	T	TR
Maximum Queue (ft)	645	581	459	367
Average Queue (ft)	500	448	374	275
95th Queue (ft)	678	584	482	379
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)	1			
Queuing Penalty (veh)	0			
Storage Bay Dist (ft)				
Storage Blk Time (%)	17			
Queuing Penalty (veh)	63			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	Т	Т	Т	TR	L
Maximum Queue (ft)	363	451	464	400	969	912	384	690	666	598	494	487
Average Queue (ft)	249	303	327	332	834	810	227	602	576	507	403	353
95th Queue (ft)	426	525	545	515	1294	1274	545	866	835	750	644	544
Link Distance (ft)		1147	1147		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)					13	10						
Queuing Penalty (veh)					0	0						
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	27	26		48	67			45				5
Queuing Penalty (veh)	106	54		174	112			78				25

Movement	SB	SB	SB	SB
Directions Served	T	T	Т	TR
Maximum Queue (ft)	554	499	433	312
Average Queue (ft)	432	395	324	217
95th Queue (ft)	598	549	468	341
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)	0	0		
Queuing Penalty (veh)	0	0		
Storage Bay Dist (ft)				
Storage Blk Time (%)	9			
Queuing Penalty (veh)	30			

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB	SB
Directions Served	L	T	TR	L	Т	TR	L	T	Т	Т	TR	L
Maximum Queue (ft)	432	523	544	400	1011	971	477	706	683	620	520	524
Average Queue (ft)	211	272	300	288	661	653	184	482	456	391	299	339
95th Queue (ft)	379	473	498	511	1138	1112	418	721	695	615	515	544
Link Distance (ft)		1147	1147		1123	1123		1296	1296	1296	1296	
Upstream Blk Time (%)					5	4						
Queuing Penalty (veh)					0	0						
Storage Bay Dist (ft)	200			100			440					425
Storage Blk Time (%)	18	19		41	68			23				5
Queuing Penalty (veh)	70	40		153	116			41				24

Intersection: 6: 700 East & 3300 South, All Intervals

Movement	SB	SB	SB	SB
Directions Served	T	T	Т	TR
Maximum Queue (ft)	697	627	494	390
Average Queue (ft)	456	411	336	235
95th Queue (ft)	627	551	462	350
Link Distance (ft)	702	702	702	702
Upstream Blk Time (%)	1	0		
Queuing Penalty (veh)	0	0		
Storage Bay Dist (ft)				
Storage Blk Time (%)	12			
Queuing Penalty (veh)	39			

Intersection: 9: 3300 South & 540 East, Interval #1

Movement	EB	WB	WB	SB
Directions Served	L	Т	TR	LR
Maximum Queue (ft)	21	21	48	49
Average Queue (ft)	6	3	12	22
95th Queue (ft)	26	24	50	54
Link Distance (ft)		1147	1147	488
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	2			
Queuing Penalty (veh)	14			

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Intersection: 9: 3300 South & 540 East, Interval #2

Movement	EB	WB	WB	SB
Directions Served	L	Т	TR	LR
Maximum Queue (ft)	26	3	56	46
Average Queue (ft)	5	0	9	22
95th Queue (ft)	26	7	46	52
Link Distance (ft)		1147	1147	488
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	2			
Queuing Penalty (veh)	13			

Intersection: 9: 3300 South & 540 East, Interval #3

Movement	EB	WB	WB	SB
Directions Served	L	T	TR	LR
Maximum Queue (ft)	27	24	46	52
Average Queue (ft)	8	4	9	26
95th Queue (ft)	30	33	46	59
Link Distance (ft)		1147	1147	488
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	3			
Queuing Penalty (veh)	17			

Intersection: 9: 3300 South & 540 East, Interval #4

Movement	EB	WB	WB	SB	
Directions Served	L	T	TR	LR	
Maximum Queue (ft)	15	10	32	52	
Average Queue (ft)	2	2	5	24	
95th Queue (ft)	13	17	29	55	
Link Distance (ft)		1147	1147	488	
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	25				
Storage Blk Time (%)	1				
Queuing Penalty (veh)	3				

Intersection: 9: 3300 South & 540 East, All Intervals

Movement	EB	WB	WB	SB
Directions Served	L	Т	TR	LR
Maximum Queue (ft)	33	47	75	67
Average Queue (ft)	5	2	9	24
95th Queue (ft)	24	22	44	55
Link Distance (ft)		1147	1147	488
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	2			
Queuing Penalty (veh)	12			

Intersection: 11: 500 East & 3360 South, Interval #1

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	37	84	41	95
Average Queue (ft)	11	48	7	30
95th Queue (ft)	38	86	32	99
Link Distance (ft)	490	657	693	399
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Ouguing Danalty (yah)				

Intersection: 11: 500 East & 3360 South, Interval #2

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	30	69	19	86
Average Queue (ft)	12	42	3	31
95th Queue (ft)	37	68	20	87
Link Distance (ft)	490	657	693	399
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

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Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	31	76	17	93
Average Queue (ft)	14	48	2	32
95th Queue (ft)	39	76	14	84
Link Distance (ft)	490	657	693	399
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				

Intersection: 11: 500 East & 3360 South, Interval #4

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	31	85	20	86
Average Queue (ft)	11	50	4	30
95th Queue (ft)	35	83	21	83
Link Distance (ft)	490	657	693	399
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 11: 500 East & 3360 South, All Intervals

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	40	100	44	140
Average Queue (ft)	12	47	4	31
95th Queue (ft)	38	79	23	89
Link Distance (ft)	490	657	693	399
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				

Network Summary

Queuing Penalty (veh)

Queuing Penalty (veh)

Network wide Queuing Penalty, Interval #1: 553	
Network wide Queuing Penalty, Interval #2: 612	
Network wide Queuing Penalty, Interval #3: 876	
Network wide Queuing Penalty, Interval #4: 788	
Network wide Queuing Penalty, All Intervals: 707	

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South Salt Lake - Wasatch Granite Townhomes TIS Project:

Analysis Period:

Future (2024) Background - Mitigated Evening Peak Hour Project #: UT18-1209 Time Period:

Intersection: 500 East & 3300 South

Type: Signalized

Annyoneh	Mayamant	Demand	Volume	e Served	Delay/Veh (sec)		
Арргоасп	Movement	Volume	Avg	%	Avg	LOS	
	L	100	99	99	55.4	Ε	
NB	Т	158	167	105	40.6	D	
IND	R	95	92	97	30.7	С	
	Subtotal	353	358	101	42.1	D	
	L	70	70	100	52.7	D	
SB	Т	170	173	102	39.9	D	
SD	R	60	62	104	29.1	С	
	Subtotal	300	305	102	40.6	D	
	L	60	56	94	29.0	С	
EB	Т	985	983	100	12.4	В	
	R	146	149	102	10.8	В	
	Subtotal	1,191	1,188	100	13.0	В	
	L	110	108	98	60.0	Ε	
WB	Т	891	897	101	22.0	С	
∥ VVB	R	70	73	105	21.0	С	
	Subtotal	1,071	1,078	101	25.7	С	
Total		2,914	2,929	101	24.1	С	

700 East & 3300 South Intersection:

Type: Signalized

Type.		Signanzeu				
Annroach	Movement	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	175	174	99	72.4	Ε
NB	Т	1,390	1,388	100	75.0	E
IND	R	110	111	101	38.3	D
	Subtotal	1,675	1,673	100	72.3	E
	L	335	332	99	62.0	Ε
SB	Т	1,875	1,881	100	45.3	D
SD	R	150	152	102	23.3	С
	Subtotal	2,360	2,365	100	46.2	D
	L	210	203	97	54.5	D
EB	Т	795	802	101	32.5	С
LD	R	145	138	95	8.3	Α
	Subtotal	1,150	1,143	99	33.5	С
	L	170	166	98	68.2	Ε
WB	Т	740	746	101	49.3	D
WB	R	240	235	98	10.6	В
	Subtotal	1,150	1,147	100	44.1	D
Total		6,335	6,328	100	50.5	D



South Salt Lake - Wasatch Granite Townhomes TIS Project:

Analysis Period:

Future (2024) Background - Mitigated Evening Peak Hour Project #: UT18-1209 Time Period:

Intersection: 3300 South & 540 East

Type: Unsignalized

Approach	Movement	Demand	Volume	e Served	Delay/Veh (sec)		
Approach	Movement	Volume	Avg	%	Avg	LOS	
	L	10	9	88	31.3	D	
SB	R	15	15	98	17.8	С	
						_	
	Subtotal	25	24	96	22.9	С	
	L	10	10	98	10.4	В	
EB	Т	1,140	1,136	100	1.3	Α	
	Subtotal	1,150	1,146	100	1.4	Α	
	Т	1,056	1,064	101	6.4	Α	
WB	R	10	10	98	5.8	Α	
"							
	Subtotal	1,066	1,074	101	6.4	Α	
Total		2,242	2,244	100	4.0	Α	

Intersection: 500 East & 3360 South

Unsignalized

Type:		Unsignalized				
Ammunaah	Mayamant	Demand	Volume	e Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	10	10	98	3.6	Α
NB	Т	250	253	101	0.8	Α
IND	R	35	36	103	0.5	Α
	Subtotal	295	299	101	0.9	Α
	L	91	87	95	4.6	Α
SB	Т	330	338	102	2.6	Α
SB	R	5	6	120	1.7	Α
	Subtotal	426	431	101	3.0	Α
	L	5	5	100	8.2	Α
EB	R	10	12	117	4.6	Α
LD						
	Subtotal	15	17	113	5.7	Α
	L	40	44	110	11.4	В
WB	R	97	101	104	5.9	Α

	Subtotal	137	145	106	7.6	Α
Total		874	892	102	3.1	Α

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.4	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.4	0.5
Total Delay (hr)	0.1	8.0	0.1	0.4	1.4	0.1	0.3	0.4	0.2	0.2	0.5	0.1
Total Del/Veh (s)	25.5	11.7	10.0	52.8	22.4	21.6	45.4	36.9	24.9	50.5	39.1	29.5
Vehicles Entered	14	234	37	26	218	17	24	40	21	16	46	16
Vehicles Exited	13	237	38	26	227	18	24	40	20	16	46	16
Hourly Exit Rate	52	948	152	104	908	72	96	160	80	64	184	64
Input Volume	58	960	142	107	869	68	97	155	93	68	166	58
% of Volume	90	99	107	97	104	106	99	103	86	94	111	110

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.8
Total Del/Veh (s)	23.1
Vehicles Entered	709
Vehicles Exited	721
Hourly Exit Rate	2884
Input Volume	2841
% of Volume	102

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.4	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.4	0.5
Total Delay (hr)	0.1	8.0	0.1	0.4	1.3	0.1	0.4	0.5	0.2	0.3	0.5	0.1
Total Del/Veh (s)	27.3	11.7	9.8	50.8	20.5	19.2	52.7	38.6	30.0	52.5	37.6	25.8
Vehicles Entered	14	240	37	27	220	19	23	41	24	17	42	16
Vehicles Exited	15	236	35	26	209	18	24	41	24	17	42	17
Hourly Exit Rate	60	944	140	104	836	72	96	164	96	68	168	68
Input Volume	58	960	142	107	869	68	97	155	93	68	166	58
% of Volume	103	98	99	97	96	106	99	106	103	100	101	117

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.7
Total Del/Veh (s)	22.7
Vehicles Entered	720
Vehicles Exited	704
Hourly Exit Rate	2816
Input Volume	2841
% of Volume	99

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.5	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.4	0.5
Total Delay (hr)	0.1	1.1	0.1	0.6	1.6	0.1	0.5	0.5	0.2	0.3	0.5	0.1
Total Del/Veh (s)	33.7	13.7	11.4	70.3	23.0	22.0	57.7	39.6	30.4	50.5	37.6	26.3
Vehicles Entered	15	267	40	27	234	18	28	43	24	18	45	14
Vehicles Exited	14	268	42	26	244	19	27	43	24	18	44	14
Hourly Exit Rate	56	1072	168	104	976	76	108	172	96	72	176	56
Input Volume	65	1059	157	118	958	75	108	169	102	75	183	65
% of Volume	86	101	107	88	102	101	100	102	94	96	96	86

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	5.7
Total Del/Veh (s)	25.2
Vehicles Entered	773
Vehicles Exited	783
Hourly Exit Rate	3132
Input Volume	3134
% of Volume	100

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.2	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.5	0.4
Total Delay (hr)	0.1	8.0	0.1	0.4	1.3	0.1	0.4	0.5	0.2	0.2	0.5	0.1
Total Del/Veh (s)	25.1	11.1	10.3	51.2	20.7	20.0	51.0	39.9	29.4	46.0	38.1	29.6
Vehicles Entered	13	243	35	28	227	19	25	43	24	18	39	15
Vehicles Exited	14	242	34	29	217	18	24	43	24	18	41	16
Hourly Exit Rate	56	968	136	116	868	72	96	172	96	72	164	64
Input Volume	58	960	142	107	869	68	97	155	93	68	166	58
% of Volume	97	101	96	108	100	106	99	111	103	106	99	110

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.8
Total Del/Veh (s)	22.6
Vehicles Entered	729
Vehicles Exited	720
Hourly Exit Rate	2880
Input Volume	2841
% of Volume	101

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3: 500 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Denied Del/Veh (s)	2.4	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.4	0.5
Total Delay (hr)	0.5	3.4	0.5	1.8	5.5	0.4	1.6	1.9	0.8	1.0	1.9	0.5
Total Del/Veh (s)	29.0	12.4	10.8	60.0	22.0	21.0	55.4	40.6	30.7	52.7	39.9	29.1
Vehicles Entered	56	985	149	108	897	73	100	167	93	69	172	62
Vehicles Exited	56	983	149	108	897	73	99	167	92	70	173	62
Hourly Exit Rate	56	983	149	108	897	73	99	167	92	70	173	62
Input Volume	60	985	146	110	891	70	100	158	95	70	170	60
% of Volume	94	100	102	98	101	105	99	105	97	100	102	104

3: 500 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.3
Total Delay (hr)	19.9
Total Del/Veh (s)	24.1
Vehicles Entered	2931
Vehicles Exited	2929
Hourly Exit Rate	2929
Input Volume	2914
% of Volume	101

6: 700 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.7	0.4	2.5	2.1	0.1	0.2	1.9	0.2	0.3
Total Delay (hr)	0.7	1.7	0.1	8.0	2.5	0.1	0.9	5.6	0.2	1.5	5.4	0.2
Total Del/Veh (s)	49.0	30.9	7.0	63.7	47.3	8.7	66.9	55.3	22.9	56.7	38.8	19.4
Vehicles Entered	46	192	32	40	181	54	43	330	26	83	457	37
Vehicles Exited	43	179	32	38	169	54	44	349	26	88	491	39
Hourly Exit Rate	172	716	128	152	676	216	176	1396	104	352	1964	156
Input Volume	205	775	141	166	721	234	171	1355	107	327	1828	146
% of Volume	84	92	91	92	94	92	103	103	97	108	107	107

6: 700 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.5
Total Delay (hr)	19.7
Total Del/Veh (s)	42.9
Vehicles Entered	1521
Vehicles Exited	1552
Hourly Exit Rate	6208
Input Volume	6176
% of Volume	101

6: 700 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.4	2.5	2.1	0.1	0.2	1.9	0.2	0.3
Total Delay (hr)	0.7	1.7	0.1	0.6	2.5	0.2	0.9	5.8	0.2	1.5	5.3	0.2
Total Del/Veh (s)	41.6	29.7	7.0	49.7	44.2	9.8	68.2	57.9	27.5	60.2	40.8	22.0
Vehicles Entered	51	194	35	42	182	60	42	342	26	83	454	38
Vehicles Exited	52	204	36	45	195	60	41	323	25	79	422	38
Hourly Exit Rate	208	816	144	180	780	240	164	1292	100	316	1688	152
Input Volume	205	775	141	166	721	234	171	1355	107	327	1828	146
% of Volume	101	105	102	108	108	103	96	95	93	97	92	104

6: 700 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.5
Total Delay (hr)	19.7
Total Del/Veh (s)	43.0
Vehicles Entered	1549
Vehicles Exited	1520
Hourly Exit Rate	6080
Input Volume	6176
% of Volume	98

6: 700 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.4	2.4	2.0	0.1	0.2	1.8	0.2	0.4
Total Delay (hr)	1.0	1.8	0.1	8.0	2.8	0.2	1.0	8.9	0.4	1.5	7.6	0.3
Total Del/Veh (s)	61.7	29.3	9.1	62.0	48.6	11.9	69.1	78.0	43.0	57.2	49.5	27.8
Vehicles Entered	56	211	37	43	199	63	46	374	30	84	505	40
Vehicles Exited	55	199	36	38	182	62	45	366	30	88	527	41
Hourly Exit Rate	220	796	144	152	728	248	180	1464	120	352	2108	164
Input Volume	226	856	156	183	796	258	188	1495	118	360	2016	161
% of Volume	97	93	92	83	91	96	96	98	102	98	105	102

6: 700 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.5
Total Delay (hr)	26.3
Total Del/Veh (s)	52.1
Vehicles Entered	1688
Vehicles Exited	1669
Hourly Exit Rate	6676
Input Volume	6813
% of Volume	98

6: 700 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.5	0.4	2.5	2.2	0.1	0.2	2.0	0.2	0.3
Total Delay (hr)	0.8	2.1	0.1	1.0	2.5	0.2	0.9	9.4	0.4	1.4	5.9	0.2
Total Del/Veh (s)	48.2	33.2	8.6	74.9	43.8	10.5	64.2	88.0	47.7	59.0	43.9	21.8
Vehicles Entered	50	206	33	42	184	58	42	343	29	82	458	36
Vehicles Exited	53	219	35	45	199	60	43	349	30	77	441	35
Hourly Exit Rate	212	876	140	180	796	240	172	1396	120	308	1764	140
Input Volume	205	775	141	166	721	234	171	1355	107	327	1828	146
% of Volume	103	113	99	108	110	103	101	103	112	94	96	96

6: 700 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.5
Total Delay (hr)	24.9
Total Del/Veh (s)	52.4
Vehicles Entered	1563
Vehicles Exited	1586
Hourly Exit Rate	6344
Input Volume	6176
% of Volume	103

6: 700 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.0	0.2	0.1	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.4	2.5	2.1	0.1	0.2	1.9	0.2	0.3
Total Delay (hr)	3.1	7.3	0.3	3.2	10.4	0.7	3.6	29.7	1.2	5.9	24.2	1.0
Total Del/Veh (s)	54.5	32.5	8.3	68.2	49.3	10.6	72.4	75.0	38.3	62.0	45.3	23.3
Vehicles Entered	204	803	137	167	746	236	173	1389	111	332	1874	152
Vehicles Exited	203	802	138	166	746	235	174	1388	111	332	1881	152
Hourly Exit Rate	203	802	138	166	746	235	174	1388	111	332	1881	152
Input Volume	210	795	145	170	740	240	175	1390	110	335	1875	150
% of Volume	97	101	95	98	101	98	99	100	101	99	100	102

6: 700 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	0.8
Denied Del/Veh (s)	0.5
Total Delay (hr)	90.6
Total Del/Veh (s)	50.5
Vehicles Entered	6324
Vehicles Exited	6328
Hourly Exit Rate	6328
Input Volume	6335
% of Volume	100

9: 3300 South & 540 East Performance by movement Interval #1 4:00

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.4	0.0	0.0	0.0	0.6
Total Del/Veh (s)	9.0	1.3	6.1	5.6	25.6	18.2	3.9
Vehicles Entered	3	271	250	3	2	4	533
Vehicles Exited	2	268	256	3	2	4	535
Hourly Exit Rate	8	1072	1024	12	8	16	2140
Input Volume	10	1112	1029	10	10	15	2186
% of Volume	80	96	100	120	80	107	98

9: 3300 South & 540 East Performance by movement Interval #2 4:15

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.4	0.0	0.0	0.0	0.6
Total Del/Veh (s)	14.1	1.2	5.9	6.6	34.5	10.7	3.7
Vehicles Entered	2	275	272	2	2	4	557
Vehicles Exited	2	279	262	2	2	3	550
Hourly Exit Rate	8	1116	1048	8	8	12	2200
Input Volume	10	1112	1029	10	10	15	2186
% of Volume	80	100	102	80	80	80	101

9: 3300 South & 540 East Performance by movement Interval #3 4:30

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.5	0.0	0.0	0.0	0.7
Total Del/Veh (s)	7.7	1.4	6.6	5.6	30.3	16.3	4.1
Vehicles Entered	4	308	267	2	2	4	587
Vehicles Exited	4	302	276	2	2	4	590
Hourly Exit Rate	16	1208	1104	8	8	16	2360
Input Volume	11	1226	1135	11	11	16	2410
% of Volume	145	99	97	73	73	100	98

9: 3300 South & 540 East Performance by movement Interval #4 4:45

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.5	0.0	0.0	0.0	0.7
Total Del/Veh (s)	8.9	1.3	6.5	5.5	50.3	21.5	4.1
Vehicles Entered	2	282	274	3	2	3	566
Vehicles Exited	2	288	270	3	2	4	569
Hourly Exit Rate	8	1152	1080	12	8	16	2276
Input Volume	10	1112	1029	10	10	15	2186
% of Volume	80	104	105	120	80	107	104

9: 3300 South & 540 East Performance by movement Entire Run

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.4	1.9	0.0	0.1	0.1	2.5
Total Del/Veh (s)	10.4	1.3	6.4	5.8	31.3	17.8	4.0
Vehicles Entered	10	1136	1063	10	8	15	2242
Vehicles Exited	10	1136	1064	10	9	15	2244
Hourly Exit Rate	10	1136	1064	10	9	15	2244
Input Volume	10	1140	1056	10	10	15	2242
% of Volume	98	100	101	98	88	98	100

11: 500 East & 3360 South Performance by movement Interval #1 4:00

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	7.9	4.4	11.4	6.0	4.0	0.9	0.4	4.3	2.7	3.0	3.2	
Vehicles Entered	1	4	12	25	3	59	9	23	86	1	223	
Vehicles Exited	1	4	12	25	3	60	9	24	88	1	227	
Hourly Exit Rate	4	16	48	100	12	240	36	96	352	4	908	
Input Volume	5	10	39	95	10	244	34	89	322	5	853	
% of Volume	80	160	123	105	120	98	106	108	109	80	106	

11: 500 East & 3360 South Performance by movement Interval #2 4:15

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	6.4	4.0	10.8	4.8	2.4	8.0	0.6	4.7	2.5	1.3	2.8	
Vehicles Entered	1	2	10	24	3	63	9	20	82	2	216	
Vehicles Exited	1	2	11	24	2	63	9	20	80	2	214	
Hourly Exit Rate	4	8	44	96	8	252	36	80	320	8	856	
Input Volume	5	10	39	95	10	244	34	89	322	5	853	
% of Volume	80	80	113	101	80	103	106	90	99	160	100	

11: 500 East & 3360 South Performance by movement Interval #3 4:30

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	7.8	4.6	12.0	6.6	3.2	1.0	0.4	4.7	2.7	1.3	3.2	
Vehicles Entered	1	3	11	28	3	66	10	22	89	2	235	
Vehicles Exited	1	3	11	28	3	66	10	22	91	2	237	
Hourly Exit Rate	4	12	44	112	12	264	40	88	364	8	948	
Input Volume	5	11	43	104	11	269	38	98	355	5	939	
% of Volume	80	109	102	108	109	98	105	90	103	160	101	

11: 500 East & 3360 South Performance by movement Interval #4 4:45

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	9.5	3.9	10.5	5.5	3.4	0.8	0.4	4.5	2.4	2.2	2.9	
Vehicles Entered	2	3	11	25	2	66	8	22	81	1	221	
Vehicles Exited	2	4	11	24	2	65	8	22	79	1	218	
Hourly Exit Rate	8	16	44	96	8	260	32	88	316	4	872	
Input Volume	5	10	39	95	10	244	34	89	322	5	853	
% of Volume	160	160	113	101	80	107	94	99	98	80	102	

11: 500 East & 3360 South Performance by movement Entire Run

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.1	0.2	0.0	0.1	0.0	0.1	0.2	0.0	8.0	
Total Del/Veh (s)	8.2	4.6	11.4	5.9	3.6	0.8	0.5	4.6	2.6	1.7	3.1	
Vehicles Entered	5	12	44	101	10	254	36	87	338	6	893	
Vehicles Exited	5	12	44	101	10	253	36	87	338	6	892	
Hourly Exit Rate	5	12	44	101	10	253	36	87	338	6	892	
Input Volume	5	10	40	97	10	250	35	91	330	5	874	
% of Volume	100	117	110	104	98	101	103	95	102	120	102	

Total Network Performance By Interval

Interval Start	4:00	4:15	4:30	4:45	All
Denied Delay (hr)	0.3	0.3	0.3	0.3	1.1
Denied Del/Veh (s)	0.6	0.6	0.6	0.6	0.6
Total Delay (hr)	27.1	26.9	35.0	32.4	121.4
Total Del/Veh (s)	49.9	49.8	59.0	57.4	59.2
Vehicles Entered	1734	1753	1911	1759	7164
Vehicles Exited	1767	1718	1861	1810	7161
Hourly Exit Rate	7068	6872	7444	7240	7161
Input Volume	19025	19025	20985	19025	19515
% of Volume	37	36	35	38	37

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	73	245	243	233	288	298	143	226	126	240	
Average Queue (ft)	36	165	159	100	234	251	81	144	64	157	
95th Queue (ft)	79	247	247	224	326	332	140	246	133	266	
Link Distance (ft)		941	941		290	290		399		694	
Upstream Blk Time (%)					2	4					
Queuing Penalty (veh)					9	19					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	19		13	24		6	25	2	29	
Queuing Penalty (veh)	2	11		55	26		16	24	5	20	

Intersection: 3: 500 East & 3300 South, Interval #2

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	90	258	269	205	294	298	194	271	87	207	
Average Queue (ft)	46	179	175	106	226	244	90	155	53	132	
95th Queue (ft)	95	269	281	227	322	335	184	272	92	218	
Link Distance (ft)		941	941		290	290		399		694	
Upstream Blk Time (%)					2	4		0			
Queuing Penalty (veh)					11	19		0			
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	1	19		10	22		10	29	2	25	
Queuing Penalty (veh)	5	11		43	24		24	28	5	17	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Τ	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	175	325	302	239	305	306	176	259	106	217	
Average Queue (ft)	44	194	179	126	255	269	102	172	65	141	
95th Queue (ft)	112	303	294	257	339	340	187	291	117	236	
Link Distance (ft)		941	941		290	290		399		694	
Upstream Blk Time (%)					4	6					
Queuing Penalty (veh)					23	37					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	1	23		21	26		15	32	4	24	
Queuing Penalty (veh)	7	15		100	31		41	34	9	18	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	71	257	244	187	299	302	154	240	96	195	
Average Queue (ft)	39	170	160	110	239	255	81	157	56	128	
95th Queue (ft)	84	272	267	219	331	334	152	254	104	210	
Link Distance (ft)		941	941		290	290		399		694	
Upstream Blk Time (%)					2	4					
Queuing Penalty (veh)					13	22					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	1	17		14	22		9	34	3	25	
Queuing Penalty (veh)	4	10		63	24		22	33	6	17	

Intersection: 3: 500 East & 3300 South, All Intervals

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	182	327	323	250	309	311	234	323	143	271	
Average Queue (ft)	41	177	168	110	239	254	88	157	60	139	
95th Queue (ft)	94	275	274	233	331	337	168	267	113	235	
Link Distance (ft)		941	941		290	290		399		694	
Upstream Blk Time (%)					3	4		0			
Queuing Penalty (veh)					14	24		0			
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	1	20		14	24		10	30	3	26	
Queuing Penalty (veh)	5	12		65	26		26	30	6	18	

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	Т	Т	R	L	Т	T	T
Maximum Queue (ft)	254	308	323	201	239	357	335	232	232	434	410	352
Average Queue (ft)	144	196	215	67	138	252	231	87	145	339	314	262
95th Queue (ft)	261	328	344	206	269	360	343	232	249	458	436	382
Link Distance (ft)		1147	1147			1123	1123			1284	1284	1284
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			150	100			150	440			
Storage Blk Time (%)	5	7	18		30	56	28			1		
Queuing Penalty (veh)	19	14	25		107	93	65			2		

Movement	NB	SB	SB	SB	SB	SB
Directions Served	TR	L	T	T	Т	TR
Maximum Queue (ft)	267	451	514	453	374	276
Average Queue (ft)	167	307	393	363	286	184
95th Queue (ft)	297	476	545	491	414	309
Link Distance (ft)	1284		690	690	690	690
Upstream Blk Time (%)			1			
Queuing Penalty (veh)			0			
Storage Bay Dist (ft)		425				
Storage Blk Time (%)		2	5			
Queuing Penalty (veh)		10	17			

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	Т	R	L	Т	T	R	L	Т	T	T
Maximum Queue (ft)	259	290	312	158	224	361	351	281	191	424	412	340
Average Queue (ft)	151	203	216	58	132	270	253	110	143	343	326	267
95th Queue (ft)	252	302	323	183	228	367	355	268	291	443	429	354
Link Distance (ft)		1147	1147			1123	1123			1284	1284	1284
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			150	100			150	440			
Storage Blk Time (%)	5	8	18		27	52	29		0	1		
Queuing Penalty (veh)	20	17	26		97	87	68		0	1		

Movement	NB	SB	SB	SB	SB	SB
Directions Served	TR	L	Т	T	T	TR
Maximum Queue (ft)	248	431	496	425	366	248
Average Queue (ft)	178	268	366	332	268	164
95th Queue (ft)	270	459	521	455	394	270
Link Distance (ft)	1284		690	690	690	690
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)		425				
Storage Blk Time (%)		1	4			
Queuing Penalty (veh)		6	12			

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	Т	T	R	L	Т	T	T
Maximum Queue (ft)	287	333	366	277	234	375	363	234	245	548	518	466
Average Queue (ft)	197	208	225	91	132	277	258	118	148	429	407	346
95th Queue (ft)	351	343	370	263	252	400	387	283	247	559	536	480
Link Distance (ft)		1147	1147			1123	1123			1284	1284	1284
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			150	100			150	440			
Storage Blk Time (%)	15	7	20	0	29	60	34	0		13		
Queuing Penalty (veh)	63	16	31	0	116	110	87	0		25		

Movement	NB	SB	SB	SB	SB	SB
Directions Served	TR	L	T	T	T	TR
Maximum Queue (ft)	382	453	589	515	436	316
Average Queue (ft)	249	319	464	420	347	248
95th Queue (ft)	382	512	625	542	463	345
Link Distance (ft)	1284		690	690	690	690
Upstream Blk Time (%)			0			
Queuing Penalty (veh)			0			
Storage Bay Dist (ft)		425				
Storage Blk Time (%)		1	14			
Queuing Penalty (veh)		5	51			

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	Т	Т	T
Maximum Queue (ft)	243	348	368	273	286	375	367	236	321	571	544	492
Average Queue (ft)	158	229	249	86	180	285	257	101	164	459	436	378
95th Queue (ft)	252	356	384	255	337	404	377	251	361	687	666	611
Link Distance (ft)		1147	1147			1123	1123			1284	1284	1284
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			150	100			150	440			
Storage Blk Time (%)	4	11	24		40	53	27			19		
Queuing Penalty (veh)	17	23	34		143	87	64			33		

Movement	NB	SB	SB	SB	SB	SB
Directions Served	TR	L	Т	T	Т	TR
Maximum Queue (ft)	396	380	537	468	396	262
Average Queue (ft)	285	237	398	368	298	186
95th Queue (ft)	506	390	547	478	414	284
Link Distance (ft)	1284		690	690	690	690
Upstream Blk Time (%)			0			
Queuing Penalty (veh)			0			
Storage Bay Dist (ft)		425				
Storage Blk Time (%)		0	5			
Queuing Penalty (veh)		1	15			

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	Т	R	L	Т	T	T
Maximum Queue (ft)	328	383	407	300	342	428	416	300	370	624	588	539
Average Queue (ft)	163	209	226	75	146	271	250	104	150	392	371	314
95th Queue (ft)	286	335	358	230	278	385	367	260	293	568	547	488
Link Distance (ft)		1147	1147			1123	1123			1284	1284	1284
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			150	100			150	440			
Storage Blk Time (%)	7	8	20	0	31	55	29	0	0	9		
Queuing Penalty (veh)	30	17	29	0	116	94	71	0	0	15		

Intersection: 6: 700 East & 3300 South, All Intervals

Movement	NB	SB	SB	SB	SB	SB
Directions Served	TR	L	Т	Т	Т	TR
Maximum Queue (ft)	441	507	656	550	459	339
Average Queue (ft)	220	283	405	371	299	196
95th Queue (ft)	392	468	570	502	430	315
Link Distance (ft)	1284		690	690	690	690
Upstream Blk Time (%)			0			
Queuing Penalty (veh)			0			
Storage Bay Dist (ft)		425				
Storage Blk Time (%)		1	7			
Queuing Penalty (veh)		6	24			

Intersection: 9: 3300 South & 540 East, Interval #1

Movement	EB	WB	WB	SB	
Directions Served	L	T	TR	LR	
Maximum Queue (ft)	28	44	60	46	
Average Queue (ft)	6	9	16	20	
95th Queue (ft)	25	49	60	52	
Link Distance (ft)		1147	1147	488	
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	25				
Storage Blk Time (%)	2				
Queuing Penalty (veh)	13				

Intersection: 9: 3300 South & 540 East, Interval #2

Movement	EB	WB	WB	SB
Directions Served	L	T	TR	LR
Maximum Queue (ft)	21	46	63	44
Average Queue (ft)	4	10	16	19
95th Queue (ft)	20	47	68	49
Link Distance (ft)		1147	1147	488
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	3			
Queuing Penalty (veh)	14			

Intersection: 9: 3300 South & 540 East, Interval #3

Movement	EB	WB	WB	SB
Directions Served	L	Т	TR	LR
Maximum Queue (ft)	30	74	96	42
Average Queue (ft)	9	20	33	19
95th Queue (ft)	31	75	93	48
Link Distance (ft)		1147	1147	488
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	2			
Queuing Penalty (veh)	14			

Intersection: 9: 3300 South & 540 East, Interval #4

Movement	EB	WB	WB	SB
Directions Served	L	T	TR	LR
Maximum Queue (ft)	22	66	77	52
Average Queue (ft)	5	16	21	21
95th Queue (ft)	22	75	84	57
Link Distance (ft)		1147	1147	488
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	1			
Queuing Penalty (veh)	8			

Intersection: 9: 3300 South & 540 East, All Intervals

Movement	EB	WB	WB	SB
Directions Served	L	T	TR	LR
Maximum Queue (ft)	33	114	127	64
Average Queue (ft)	6	14	21	20
95th Queue (ft)	25	63	78	52
Link Distance (ft)		1147	1147	488
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	2			
Queuing Penalty (veh)	12			

Intersection: 11: 500 East & 3360 South, Interval #1

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	36	78	30	75
Average Queue (ft)	15	47	5	23
95th Queue (ft)	43	79	25	66
Link Distance (ft)	490	657	693	399
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 11: 500 East & 3360 South, Interval #2

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	33	77	14	62
Average Queue (ft)	9	47	3	25
95th Queue (ft)	33	83	18	68
Link Distance (ft)	490	657	693	399
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

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Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	33	85	26	84
Average Queue (ft)	13	50	4	29
95th Queue (ft)	39	89	24	83
Link Distance (ft)	490	657	693	399
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)	·			

Intersection: 11: 500 East & 3360 South, Interval #4

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	35	79	18	65
Average Queue (ft)	17	51	3	23
95th Queue (ft)	44	81	17	68
Link Distance (ft)	490	657	693	399
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 11: 500 East & 3360 South, All Intervals

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	40	109	47	99
Average Queue (ft)	14	49	3	25
95th Queue (ft)	40	83	21	71
Link Distance (ft)	490	657	693	399
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Network Summary

Queuing Penalty (veh)

Network wide Queuing Penalty, Interval #1: 550	
Network wide Queuing Penalty, Interval #2: 536	
Network wide Queuing Penalty, Interval #3: 834	
Network wide Queuing Penalty, Interval #4: 638	
Network wide Queuing Penalty, All Intervals: 639	

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South Salt Lake - Wasatch Granite Townhomes TIS Project:

Analysis Period: Future (2024) Plus Project Evening Peak Hour

Time Period: Project #: UT18-1209

Intersection: 500 East & 3300 South

Type: Signalized

Annyoneh	Mayamant	Demand	Volume	e Served	Delay/Veh (sec)		
Approach	Movement	Volume	Avg	%	Avg	LOS	
	L	100	100	100	53.2	D	
NB	Т	158	157	99	39.8	D	
IND	R	99	100	101	28.7	С	
	Subtotal	357	357	100	40.4	D	
	L	74	71	96	55.5	Ε	
SB	Т	170	168	99	41.6	D	
	R	60	60	100	28.7	С	
	Subtotal	304	299	98	42.3	D	
	L	60	64	107	28.4	С	
EB	Т	999	1,014	102	12.2	В	
	R	146	148	101	10.2	В	
	Subtotal	1,205	1,226	102	12.8	В	
	L	112	112	100	65.8	Ε	
WB	Т	897	893	100	21.8	С	
∥ VV D	R	72	70	97	20.3	С	
	Subtotal	1,081	1,075	99	26.3	С	
Total		2,947	2,957	100	24.0	С	

Intersection: 700 East & 3300 South

Type: Signalized

турс.		Olgitalized				
Annroach	Mayamant	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	183	187	102	78.8	Ε
NB	Т	1,390	1,363	98	71.8	E
IND	R	110	110	100	35.5	D
	Subtotal	1,683	1,660	99	70.2	E
	L	335	333	99	68.7	Ε
SB	Т	1,875	1,874	100	46.8	D
	R	156	150	96	24.4	С
	Subtotal	2,366	2,357	100	48.5	D
	L	214	221	103	62.2	Ε
EB	Т	800	803	100	31.5	С
LD	R	150	151	100	7.5	Α
	Subtotal	1,164	1,175	101	34.2	С
	L	170	173	102	78.4	Ε
WB	Т	746	743	100	49.1	D
	R	240	249	104	10.8	В
	Subtotal	1,156	1,165	101	45.3	D
Total		6,370	6,357	100	51.0	D



South Salt Lake - Wasatch Granite Townhomes TIS Project:

Analysis Period: Future (2024) Plus Project Evening Peak Hour

Project #: UT18-1209 Time Period:

Intersection: 3300 South & 540 East

Type: Unsignalized

Approach	Movement	Demand	Volum	e Served	Delay/Ve	h (sec)
Арргоасп	Movement	Volume	Avg	%	Avg	LOS
	L	10	9	88	33.8	D
SB	R	15	15	98	15.1	С
36						_
	Subtotal	25	24	96	22.1	С
	L	10	10	98	7.9	Α
EB	Т	1,162	1,176	101	1.3	Α
	Subtotal	1,172	1,186	101	1.4	Α
	Т	1,066	1,060	99	0.7	Α
WB	R	10	11	107	0.0	Α
VVD						
	Subtotal	1,076	1,071	100	0.7	Α
Total		2,274	2,281	100	1.2	Α

Intersection: 500 East & 3360 South

Unsignalized

Type:		Unsignalized				
Annroach	Mayamant	Demand	Volume	e Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	10	10	98	3.9	Α
NB	Т	254	252	99	0.9	Α
IND	R	35	36	103	0.5	Α
	Subtotal	299	298	100	1.0	Α
	L	91	96	106	4.7	Α
SB	Т	334	328	98	2.6	Α
SD	R	5	4	80	3.4	Α
	Subtotal	430	428	100	3.1	Α
	L	5	4	80	11.1	В
EB	R	10	11	107	4.6	Α
LD						
	Subtotal	15	15	100	6.3	Α
	L	40	40	100	11.6	В
WB	R	97	97	100	5.9	Α
** <i>B</i>						
	Subtotal	137	137	100	7.6	Α
Total		881	878	100	3.1	Α



South Salt Lake - Wasatch Granite Townhomes TIS Project:

Analysis Period: Future (2024) Plus Project Evening Peak Hour

Project #: UT18-1209 Time Period:

Intersection: East Access & 3300 South

Type: Unsignalized

Annyoooh	Mayamant	Demand	Volume	e Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	7	5	69	29.6	D
NB	R	7	8	110	8.3	Α
NB						_
	Subtotal	14	13	93	16.5	С
	Т	1,156	1,167	101	0.6	Α
EB	R	10	10	98	0.3	Α
	Subtotal	1,166	1,177	101	0.6	Α
	L	12	11	90	10.0	Α
WB	Т	1,074	1,072	100	4.1	Α
VVD						
	Subtotal	1,086	1,083	100	4.2	Α
		2.22	0.070	100		
Total		2,267	2,273	100	2.4	Α

West Access & 3300 South Intersection:

Type: Unsignalized

Type.		Ulisighanzeu				
Approach	Movement	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	4	3	75	36.6	Ε
NB	R	6	6	96	9.5	Α
	Subtotal	10	9	90	18.5	С
	Т	1,160	1,171	101	0.1	Α
EB	R	12	14	114	0.0	Α
	Subtotal	1,172	1,185	101	0.1	Α
	L	8	8	97	5.5	Α
WB	Т	1,072	1,068	100	1.3	Α
	Subtotal	1,080	1,076	100	1.3	Α
Total		2,262	2,270	100	0.8	Α

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.5	0.3
Total Delay (hr)	0.1	8.0	0.1	0.5	1.4	0.1	0.3	0.4	0.2	0.3	0.4	0.1
Total Del/Veh (s)	25.3	11.6	9.5	56.6	22.1	21.7	45.7	35.6	24.8	50.2	38.1	27.2
Vehicles Entered	15	244	37	28	215	16	23	39	24	19	40	14
Vehicles Exited	16	248	37	28	224	17	23	40	26	18	39	14
Hourly Exit Rate	64	992	148	112	896	68	92	160	104	72	156	56
Input Volume	58	970	142	109	871	70	97	154	96	72	165	58
% of Volume	110	102	104	103	103	97	95	104	108	100	95	97

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.7
Total Del/Veh (s)	22.7
Vehicles Entered	714
Vehicles Exited	730
Hourly Exit Rate	2920
Input Volume	2862
% of Volume	102

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.4	0.4
Total Delay (hr)	0.1	8.0	0.1	0.4	1.3	0.1	0.4	0.4	0.2	0.2	0.5	0.1
Total Del/Veh (s)	25.4	11.0	9.1	50.4	20.8	19.1	50.9	40.6	28.2	49.0	39.6	28.4
Vehicles Entered	15	251	37	27	216	17	25	37	25	16	43	16
Vehicles Exited	14	248	37	27	207	16	25	38	25	17	43	16
Hourly Exit Rate	56	992	148	108	828	64	100	152	100	68	172	64
Input Volume	58	970	142	109	871	70	97	154	96	72	165	58
% of Volume	97	102	104	99	95	91	103	99	104	94	104	110

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.7
Total Del/Veh (s)	22.5
Vehicles Entered	725
Vehicles Exited	713
Hourly Exit Rate	2852
Input Volume	2862
% of Volume	100

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.1	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.6	0.6
Total Delay (hr)	0.2	1.1	0.1	0.7	1.5	0.1	0.5	0.4	0.2	0.3	0.5	0.1
Total Del/Veh (s)	31.3	13.5	12.1	77.9	22.7	21.1	56.3	36.5	26.3	57.2	39.6	29.5
Vehicles Entered	19	273	40	29	234	18	27	40	27	20	46	15
Vehicles Exited	19	274	40	26	244	19	28	38	27	19	47	15
Hourly Exit Rate	76	1096	160	104	976	76	112	152	108	76	188	60
Input Volume	65	1086	159	122	975	78	109	171	108	80	185	65
% of Volume	117	101	101	85	100	97	103	89	100	95	102	92

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	5.8
Total Del/Veh (s)	25.2
Vehicles Entered	788
Vehicles Exited	796
Hourly Exit Rate	3184
Input Volume	3203
% of Volume	99

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.3	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.5	0.4
Total Delay (hr)	0.1	8.0	0.1	0.5	1.3	0.1	0.4	0.5	0.2	0.3	0.5	0.1
Total Del/Veh (s)	27.2	11.1	9.0	56.9	20.4	18.1	49.1	40.6	31.7	50.9	41.7	25.9
Vehicles Entered	15	245	36	28	228	19	25	40	22	18	40	14
Vehicles Exited	15	244	34	31	218	18	24	41	23	17	39	15
Hourly Exit Rate	60	976	136	124	872	72	96	164	92	68	156	60
Input Volume	58	970	142	109	871	70	97	154	96	72	165	58
% of Volume	103	101	96	114	100	103	99	106	96	94	95	103

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.8
Total Del/Veh (s)	22.9
Vehicles Entered	730
Vehicles Exited	719
Hourly Exit Rate	2876
Input Volume	2862
% of Volume	100

3: 500 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Denied Del/Veh (s)	2.2	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.5	0.4
Total Delay (hr)	0.5	3.5	0.4	2.1	5.5	0.4	1.5	1.8	0.8	1.1	2.0	0.5
Total Del/Veh (s)	28.4	12.2	10.2	65.8	21.8	20.3	53.2	39.8	28.7	55.5	41.6	28.7
Vehicles Entered	64	1013	149	112	894	70	100	156	98	73	169	60
Vehicles Exited	64	1014	148	112	893	70	100	157	100	71	168	60
Hourly Exit Rate	64	1014	148	112	893	70	100	157	100	71	168	60
Input Volume	60	999	146	112	897	72	100	158	99	74	170	60
% of Volume	107	102	101	100	100	97	100	99	101	96	99	100

3: 500 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.3
Total Delay (hr)	20.0
Total Del/Veh (s)	24.0
Vehicles Entered	2958
Vehicles Exited	2957
Hourly Exit Rate	2957
Input Volume	2947
% of Volume	100

6: 700 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.7	0.4	2.5	2.1	0.1	0.2	1.8	0.2	0.4
Total Delay (hr)	8.0	1.7	0.1	8.0	2.6	0.2	1.0	5.8	0.2	1.5	5.5	0.2
Total Del/Veh (s)	52.4	30.5	7.3	59.6	48.6	10.3	71.5	57.9	26.3	57.2	39.5	23.0
Vehicles Entered	51	192	38	45	182	56	46	325	29	83	459	36
Vehicles Exited	49	182	38	43	171	56	45	336	29	85	487	37
Hourly Exit Rate	196	728	152	172	684	224	180	1344	116	340	1948	148
Input Volume	208	777	146	165	724	233	178	1350	107	325	1821	151
% of Volume	94	94	104	104	94	96	101	100	108	105	107	98

6: 700 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.5
Total Delay (hr)	20.3
Total Del/Veh (s)	44.0
Vehicles Entered	1542
Vehicles Exited	1558
Hourly Exit Rate	6232
Input Volume	6185
% of Volume	101

6: 700 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.4	2.6	2.2	0.1	0.2	1.9	0.2	0.3
Total Delay (hr)	0.9	1.8	0.1	0.7	2.2	0.2	8.0	6.2	0.2	1.6	5.4	0.2
Total Del/Veh (s)	53.8	29.8	6.4	60.9	40.6	9.8	60.8	61.9	26.2	63.9	41.2	20.5
Vehicles Entered	54	202	38	39	173	64	44	341	29	83	455	37
Vehicles Exited	57	212	39	42	186	64	45	328	28	82	427	36
Hourly Exit Rate	228	848	156	168	744	256	180	1312	112	328	1708	144
Input Volume	208	777	146	165	724	233	178	1350	107	325	1821	151
% of Volume	110	109	107	102	103	110	101	97	105	101	94	95

6: 700 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.5
Total Delay (hr)	20.4
Total Del/Veh (s)	44.1
Vehicles Entered	1559
Vehicles Exited	1546
Hourly Exit Rate	6184
Input Volume	6185
% of Volume	100

6: 700 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.5	0.5	2.4	2.0	0.1	0.3	1.8	0.3	0.3
Total Delay (hr)	1.1	1.8	0.1	1.0	3.0	0.2	1.4	8.4	0.3	1.6	7.5	0.3
Total Del/Veh (s)	63.4	30.0	7.8	73.7	50.2	11.6	85.4	74.7	38.7	59.7	49.4	25.5
Vehicles Entered	61	206	40	48	206	70	52	369	28	86	507	38
Vehicles Exited	55	196	39	42	190	68	50	371	28	84	523	38
Hourly Exit Rate	220	784	156	168	760	272	200	1484	112	336	2092	152
Input Volume	233	869	163	185	811	261	199	1511	120	364	2038	170
% of Volume	94	90	96	91	94	104	101	98	93	92	103	89

6: 700 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.5
Total Delay (hr)	26.7
Total Del/Veh (s)	52.6
Vehicles Entered	1711
Vehicles Exited	1684
Hourly Exit Rate	6736
Input Volume	6924
% of Volume	97

6: 700 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.5	0.4	2.6	2.2	0.1	0.2	1.9	0.2	0.4
Total Delay (hr)	1.1	1.8	0.1	1.3	2.5	0.2	1.0	7.5	0.3	1.9	6.5	0.3
Total Del/Veh (s)	63.4	30.3	7.7	91.1	43.3	10.0	69.3	74.6	46.2	75.5	48.6	25.4
Vehicles Entered	55	203	34	43	182	59	46	329	24	82	455	40
Vehicles Exited	59	214	35	46	196	61	48	327	26	81	438	40
Hourly Exit Rate	236	856	140	184	784	244	192	1308	104	324	1752	160
Input Volume	208	777	146	165	724	233	178	1350	107	325	1821	151
% of Volume	113	110	96	112	108	105	108	97	97	100	96	106

6: 700 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.5
Total Delay (hr)	24.6
Total Del/Veh (s)	52.1
Vehicles Entered	1552
Vehicles Exited	1571
Hourly Exit Rate	6284
Input Volume	6185
% of Volume	102

6: 700 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.0	0.2	0.1	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	2.6	0.4	2.5	2.1	0.1	0.2	1.9	0.2	0.3
Total Delay (hr)	3.9	7.1	0.3	3.9	10.3	0.8	4.2	27.9	1.1	6.5	24.9	1.0
Total Del/Veh (s)	62.2	31.5	7.5	78.4	49.1	10.8	78.8	71.8	35.5	68.7	46.8	24.4
Vehicles Entered	222	804	150	176	744	249	189	1364	110	334	1876	151
Vehicles Exited	221	803	151	173	743	249	187	1363	110	333	1874	150
Hourly Exit Rate	221	803	151	173	743	249	187	1363	110	333	1874	150
Input Volume	214	800	150	170	746	240	183	1390	110	335	1875	156
% of Volume	103	100	100	102	100	104	102	98	100	99	100	96

6: 700 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	0.9
Denied Del/Veh (s)	0.5
Total Delay (hr)	91.9
Total Del/Veh (s)	51.0
Vehicles Entered	6369
Vehicles Exited	6357
Hourly Exit Rate	6357
Input Volume	6370
% of Volume	100

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9: 3300 South & 540 East Performance by movement Interval #1 4:00

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.2
Total Del/Veh (s)	9.0	1.3	0.6	0.0	22.4	17.1	1.2
Vehicles Entered	2	290	254	3	2	3	554
Vehicles Exited	2	286	255	3	2	3	551
Hourly Exit Rate	8	1144	1020	12	8	12	2204
Input Volume	10	1128	1035	10	10	15	2208
% of Volume	80	101	99	120	80	80	100

9: 3300 South & 540 East Performance by movement Interval #2 4:15

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.2
Total Del/Veh (s)	5.7	1.2	0.5	0.0	41.9	11.6	1.2
Vehicles Entered	3	287	257	2	2	4	555
Vehicles Exited	3	290	256	2	2	4	557
Hourly Exit Rate	12	1160	1024	8	8	16	2228
Input Volume	10	1128	1035	10	10	15	2208
% of Volume	120	103	99	80	80	107	101

9: 3300 South & 540 East Performance by movement Interval #3 4:30

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0	
Total Delay (hr)	0.0	0.1	0.1	0.0	0.0	0.0	0.2	
Total Del/Veh (s)	6.9	1.4	0.8	0.0	38.2	17.5	1.4	
Vehicles Entered	3	317	276	3	2	5	606	
Vehicles Exited	3	313	277	3	2	4	602	
Hourly Exit Rate	12	1252	1108	12	8	16	2408	
Input Volume	11	1263	1159	11	11	16	2471	
% of Volume	109	99	96	109	73	100	97	

9: 3300 South & 540 East Performance by movement Interval #4 4:45

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.2
Total Del/Veh (s)	11.5	1.2	0.6	0.1	33.1	14.4	1.2
Vehicles Entered	2	282	272	4	3	4	567
Vehicles Exited	2	287	271	4	3	4	571
Hourly Exit Rate	8	1148	1084	16	12	16	2284
Input Volume	10	1128	1035	10	10	15	2208
% of Volume	80	102	105	160	120	107	103

9: 3300 South & 540 East Performance by movement Entire Run

Movement	EBL	EBT	WBT	WBR	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.4	0.2	0.0	0.1	0.1	8.0
Total Del/Veh (s)	7.9	1.3	0.7	0.0	33.8	15.1	1.2
Vehicles Entered	10	1176	1060	11	9	16	2282
Vehicles Exited	10	1176	1060	11	9	15	2281
Hourly Exit Rate	10	1176	1060	11	9	15	2281
Input Volume	10	1162	1066	10	10	15	2274
% of Volume	98	101	99	107	88	98	100

11: 500 East & 3360 South Performance by movement Interval #1 4:00

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	7.8	5.3	9.9	5.5	4.6	8.0	0.5	4.2	2.2	1.4	2.9	
Vehicles Entered	2	2	10	23	2	62	8	24	79	1	213	
Vehicles Exited	1	2	10	23	2	62	8	24	80	1	213	
Hourly Exit Rate	4	8	40	92	8	248	32	96	320	4	852	
Input Volume	5	10	39	94	10	247	34	88	324	5	856	
% of Volume	80	80	103	98	80	100	94	109	99	80	100	

11: 500 East & 3360 South Performance by movement Interval #2 4:15

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	8.8	4.2	11.7	6.3	3.8	0.9	0.5	4.9	2.5	5.5	3.1	
Vehicles Entered	1	3	10	23	3	63	9	25	82	1	220	
Vehicles Exited	1	3	10	23	3	63	9	24	80	1	217	
Hourly Exit Rate	4	12	40	92	12	252	36	96	320	4	868	
Input Volume	5	10	39	94	10	247	34	88	324	5	856	
% of Volume	80	120	103	98	120	102	106	109	99	80	101	

11: 500 East & 3360 South Performance by movement Interval #3 4:30

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	12.5	4.1	12.2	6.0	3.7	0.9	0.6	4.5	2.9	2.0	3.3	
Vehicles Entered	1	3	12	26	3	66	11	26	86	2	236	
Vehicles Exited	1	3	11	26	3	66	11	26	87	2	236	
Hourly Exit Rate	4	12	44	104	12	264	44	104	348	8	944	
Input Volume	5	11	43	105	11	276	38	99	362	5	955	
% of Volume	80	109	102	99	109	96	116	105	96	160	99	

11: 500 East & 3360 South Performance by movement Interval #4 4:45

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
Total Del/Veh (s)	7.3	4.9	11.3	5.3	3.6	0.8	0.4	4.7	2.3	2.5	2.8	
Vehicles Entered	1	3	8	24	2	61	8	21	82	1	211	
Vehicles Exited	1	3	9	25	2	61	8	20	81	1	211	
Hourly Exit Rate	4	12	36	100	8	244	32	80	324	4	844	
Input Volume	5	10	39	94	10	247	34	88	324	5	856	
% of Volume	80	120	92	106	80	99	94	91	100	80	99	

11: 500 East & 3360 South Performance by movement Entire Run

Movement	EBL	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SBT	SBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.1	0.1	0.2	0.2	0.3	0.2	0.3	0.0	0.0	0.0	0.1	
Total Delay (hr)	0.0	0.0	0.1	0.2	0.0	0.1	0.0	0.1	0.2	0.0	0.8	
Total Del/Veh (s)	11.1	4.6	11.6	5.9	3.9	0.9	0.5	4.7	2.6	3.4	3.1	
Vehicles Entered	4	11	40	96	10	252	36	96	328	4	877	
Vehicles Exited	4	11	40	97	10	252	36	96	328	4	878	
Hourly Exit Rate	4	11	40	97	10	252	36	96	328	4	878	
Input Volume	5	10	40	97	10	254	35	91	334	5	881	
% of Volume	80	107	100	100	98	99	103	106	98	80	100	

14: East Access & 3300 South Performance by movement Interval #1 4:00

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.3	0.0	0.0	0.3
Total Del/Veh (s)	0.5	0.2	9.5	4.0	27.0	8.5	2.3
Vehicles Entered	282	3	3	251	1	2	542
Vehicles Exited	279	3	3	252	1	2	540
Hourly Exit Rate	1116	12	12	1008	4	8	2160
Input Volume	1122	10	12	1043	7	7	2201
% of Volume	99	120	100	97	57	114	98

14: East Access & 3300 South Performance by movement Interval #2 4:15

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.3	0.0	0.0	0.4
Total Del/Veh (s)	0.6	0.3	9.5	4.0	46.4	5.1	2.3
Vehicles Entered	290	2	3	264	1	2	562
Vehicles Exited	293	2	3	265	1	2	566
Hourly Exit Rate	1172	8	12	1060	4	8	2264
Input Volume	1122	10	12	1043	7	7	2201
% of Volume	104	80	100	102	57	114	103

14: East Access & 3300 South Performance by movement Interval #3 4:30

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.0	0.0	0.3	0.0	0.0	0.4
Total Del/Veh (s)	0.6	0.3	13.3	4.3	33.8	8.1	2.5
Vehicles Entered	309	3	2	276	1	2	593
Vehicles Exited	306	2	2	275	1	2	588
Hourly Exit Rate	1224	8	8	1100	4	8	2352
Input Volume	1257	11	13	1167	8	8	2464
% of Volume	97	73	62	94	50	100	95

14: East Access & 3300 South Performance by movement Interval #4 4:45

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.3	0.0	0.0	0.4
Total Del/Veh (s)	0.6	0.3	9.0	4.0	20.3	11.5	2.4
Vehicles Entered	286	3	3	280	2	2	576
Vehicles Exited	290	3	3	280	2	2	580
Hourly Exit Rate	1160	12	12	1120	8	8	2320
Input Volume	1122	10	12	1043	7	7	2201
% of Volume	103	120	100	107	114	114	105

14: East Access & 3300 South Performance by movement Entire Run

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All	
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0	
Total Delay (hr)	0.2	0.0	0.0	1.2	0.0	0.0	1.5	
Total Del/Veh (s)	0.6	0.3	10.0	4.1	29.6	8.3	2.4	
Vehicles Entered	1167	10	11	1072	5	8	2273	
Vehicles Exited	1167	10	11	1072	5	8	2273	
Hourly Exit Rate	1167	10	11	1072	5	8	2273	
Input Volume	1156	10	12	1074	7	7	2267	
% of Volume	101	98	90	100	69	110	100	

16: West Access & 3300 South Performance by movement Interval #1 4:00

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0		0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Total Del/Veh (s)	0.1	0.0	2.8	1.3		15.3	0.7
Vehicles Entered	284	4	1	252	0	1	542
Vehicles Exited	284	3	2	256	0	1	546
Hourly Exit Rate	1136	12	8	1024	0	4	2184
Input Volume	1126	12	8	1041	4	6	2197
% of Volume	101	100	100	98	0	67	99

16: West Access & 3300 South Performance by movement Interval #2 4:15

			11151				
Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Total Del/Veh (s)	0.1	0.0	5.8	1.1	35.8	6.6	0.7
Vehicles Entered	289	4	2	263	1	2	561
Vehicles Exited	290	4	2	259	1	2	558
Hourly Exit Rate	1160	16	8	1036	4	8	2232
Input Volume	1126	12	8	1041	4	6	2197
% of Volume	103	133	100	100	100	133	102

16: West Access & 3300 South Performance by movement Interval #3 4:30

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.2
Total Del/Veh (s)	0.1	0.0	7.9	1.6	39.5	8.0	0.9
Vehicles Entered	311	4	2	274	1	2	594
Vehicles Exited	310	4	2	278	1	2	597
Hourly Exit Rate	1240	16	8	1112	4	8	2388
Input Volume	1261	13	9	1165	4	7	2459
% of Volume	98	123	89	95	100	114	97

16: West Access & 3300 South Performance by movement Interval #4 4:45

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Total Del/Veh (s)	0.1	0.0	5.4	1.3	26.0	12.7	8.0
Vehicles Entered	286	3	2	279	1	1	572
Vehicles Exited	287	3	2	275	1	1	569
Hourly Exit Rate	1148	12	8	1100	4	4	2276
Input Volume	1126	12	8	1041	4	6	2197
% of Volume	102	100	100	106	100	67	104

16: West Access & 3300 South Performance by movement Entire Run

Movement	EBT	EBR	WBL	WBT	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.0	0.0	0.0	0.4	0.0	0.0	0.5
Total Del/Veh (s)	0.1	0.0	5.5	1.3	36.6	9.5	8.0
Vehicles Entered	1171	14	8	1068	3	6	2270
Vehicles Exited	1171	14	8	1068	3	6	2270
Hourly Exit Rate	1171	14	8	1068	3	6	2270
Input Volume	1160	12	8	1072	4	6	2262
% of Volume	101	114	97	100	75	96	100

Total Network Performance By Interval

Interval Start	4:00	4:15	4:30	4:45	All
Denied Delay (hr)	0.3	0.3	0.3	0.3	1.1
Denied Del/Veh (s)	0.6	0.6	0.6	0.6	0.6
Total Delay (hr)	27.7	27.7	35.6	32.1	123.2
Total Del/Veh (s)	50.6	50.4	59.2	57.2	59.6
Vehicles Entered	1749	1768	1952	1748	7221
Vehicles Exited	1759	1763	1894	1795	7210
Hourly Exit Rate	7036	7052	7576	7180	7210
Input Volume	23516	23516	26318	23516	24216
% of Volume	30	30	29	31	30

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	96	242	252	228	285	300	162	238	122	204	
Average Queue (ft)	39	168	161	99	225	249	85	152	67	132	
95th Queue (ft)	102	247	251	207	312	332	163	253	141	218	
Link Distance (ft)		941	941		290	290		400		694	
Upstream Blk Time (%)					1	3					
Queuing Penalty (veh)					4	17					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	20		12	24		8	25	6	23	
Queuing Penalty (veh)	1	12		54	27		19	24	14	17	

Intersection: 3: 500 East & 3300 South, Interval #2

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	74	261	240	211	287	300	160	253	90	215	
Average Queue (ft)	41	176	165	108	226	248	79	151	55	138	
95th Queue (ft)	84	265	260	213	325	336	147	257	96	223	
Link Distance (ft)		941	941		290	290		400		694	
Upstream Blk Time (%)					1	3					
Queuing Penalty (veh)					5	16					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	18		15	22		7	27	2	27	
Queuing Penalty (veh)	2	10		66	24		17	26	5	20	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	Τ	TR	L	TR	L	TR	
Maximum Queue (ft)	127	306	290	249	295	301	183	270	147	248	
Average Queue (ft)	55	200	188	121	250	266	106	160	75	160	
95th Queue (ft)	135	310	298	253	318	331	191	286	151	271	
Link Distance (ft)		941	941		290	290		400		694	
Upstream Blk Time (%)					3	5					
Queuing Penalty (veh)					16	29					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	1	24		26	26		15	25	7	30	
Queuing Penalty (veh)	7	16		129	32		42	27	18	24	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	119	274	265	246	296	299	153	257	128	225	
Average Queue (ft)	48	178	158	133	238	257	79	154	62	133	
95th Queue (ft)	133	286	277	256	329	339	153	261	127	231	
Link Distance (ft)		941	941		290	290		400		694	
Upstream Blk Time (%)					2	4					
Queuing Penalty (veh)					12	21					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	2	17		18	22		7	32	5	26	
Queuing Penalty (veh)	9	10		79	24		17	31	12	18	

Intersection: 3: 500 East & 3300 South, All Intervals

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	198	333	325	250	305	308	220	309	175	271	
Average Queue (ft)	46	180	168	115	235	255	87	154	65	141	
95th Queue (ft)	116	280	274	235	323	336	166	265	131	238	
Link Distance (ft)		941	941		290	290		400		694	
Upstream Blk Time (%)					2	4					
Queuing Penalty (veh)					9	21					
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	1	20		18	24		9	27	5	26	
Queuing Penalty (veh)	5	12		82	27		24	27	12	20	

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	Т	R	L	Т	T	R	L	Т	T	T
Maximum Queue (ft)	255	299	334	208	261	355	348	240	231	436	402	340
Average Queue (ft)	168	207	229	71	151	264	239	95	150	333	315	258
95th Queue (ft)	301	315	339	208	273	384	365	244	265	466	441	379
Link Distance (ft)		783	783			1123	1123			1284	1284	1284
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			150	100			150	440			
Storage Blk Time (%)	8	6	18		35	56	29	0		2		
Queuing Penalty (veh)	30	13	26		126	93	68	0		4		

Movement	NB	SB	SB	SB	SB	SB
Directions Served	TR	L	T	T	Т	TR
Maximum Queue (ft)	259	391	473	456	379	253
Average Queue (ft)	169	271	389	359	286	185
95th Queue (ft)	294	424	504	471	399	257
Link Distance (ft)	1284		690	690	690	690
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)		425				
Storage Blk Time (%)		1	3			
Queuing Penalty (veh)		6	11			

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	Т	R	L	Т	T	T
Maximum Queue (ft)	276	294	336	275	197	328	296	207	219	440	407	357
Average Queue (ft)	174	202	223	74	140	254	230	89	149	358	338	283
95th Queue (ft)	304	305	329	227	228	340	308	194	244	480	454	400
Link Distance (ft)		783	783			1123	1123			1284	1284	1284
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			150	100			150	440			
Storage Blk Time (%)	11	8	21		33	49	22	0		2		
Queuing Penalty (veh)	44	16	31		118	80	52	1		3		

Movement	NB	SB	SB	SB	SB	SB
Directions Served	TR	L	Т	T	Т	TR
Maximum Queue (ft)	284	420	456	418	345	241
Average Queue (ft)	200	280	364	333	276	172
95th Queue (ft)	328	457	494	446	381	266
Link Distance (ft)	1284		690	690	690	690
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)		425				
Storage Blk Time (%)		1	3			
Queuing Penalty (veh)		6	9			

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	Т	R	L	T	T	R	L	Т	T	T
Maximum Queue (ft)	309	295	320	240	280	372	357	286	327	505	492	440
Average Queue (ft)	212	213	227	88	169	289	273	134	191	407	389	330
95th Queue (ft)	373	314	334	249	328	408	393	310	332	534	521	463
Link Distance (ft)		783	783			1123	1123			1284	1284	1284
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			150	100			150	440			
Storage Blk Time (%)	17	7	18		43	58	35	0	0	8		
Queuing Penalty (veh)	73	17	29		172	108	92	1	1	15		

Movement	NB	SB	SB	SB	SB	SB
Directions Served	TR	L	Т	T	Т	TR
Maximum Queue (ft)	339	507	635	561	470	359
Average Queue (ft)	244	290	469	428	343	238
95th Queue (ft)	357	490	638	556	463	340
Link Distance (ft)	1284		690	690	690	690
Upstream Blk Time (%)			1			
Queuing Penalty (veh)			0			
Storage Bay Dist (ft)		425				
Storage Blk Time (%)		3	13			
Queuing Penalty (veh)		15	46			

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	Т	Т	R	L	Т	T	T
Maximum Queue (ft)	318	305	330	227	278	409	379	260	252	498	473	417
Average Queue (ft)	205	217	241	93	196	297	266	102	171	396	370	319
95th Queue (ft)	344	332	377	271	371	445	412	248	295	527	510	458
Link Distance (ft)		783	783			1123	1123			1284	1284	1284
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			150	100			150	440			
Storage Blk Time (%)	18	10	20		45	50	28	0		6		
Queuing Penalty (veh)	72	20	30		165	83	65	1		11		

Movement	NB	SB	SB	SB	SB	SB
Directions Served	TR	L	Т	T	Т	TR
Maximum Queue (ft)	315	493	598	509	412	321
Average Queue (ft)	227	323	429	381	297	201
95th Queue (ft)	372	548	628	546	447	338
Link Distance (ft)	1284		690	690	690	690
Upstream Blk Time (%)			1			
Queuing Penalty (veh)			0			
Storage Bay Dist (ft)		425				
Storage Blk Time (%)		6	8			
Queuing Penalty (veh)		27	27			

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	Т	R	L	Т	T	R	L	Т	T	T
Maximum Queue (ft)	375	342	390	300	343	448	430	299	345	532	509	466
Average Queue (ft)	190	209	230	82	164	276	252	105	165	374	353	298
95th Queue (ft)	334	317	346	240	308	400	376	254	289	511	490	434
Link Distance (ft)		783	783			1123	1123			1284	1284	1284
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	200			150	100			150	440			
Storage Blk Time (%)	14	8	19		39	53	29	0	0	4		
Queuing Penalty (veh)	54	17	29		145	91	70	1	0	8		

Intersection: 6: 700 East & 3300 South, All Intervals

Movement	NB	SB	SB	SB	SB	SB
Directions Served	TR	L	Т	T	Т	TR
Maximum Queue (ft)	362	524	677	585	485	367
Average Queue (ft)	210	291	413	375	300	199
95th Queue (ft)	346	484	583	519	431	311
Link Distance (ft)	1284		690	690	690	690
Upstream Blk Time (%)			0			
Queuing Penalty (veh)			0			
Storage Bay Dist (ft)		425				
Storage Blk Time (%)		3	7			
Queuing Penalty (veh)		13	23			

Intersection: 9: 3300 South & 540 East, Interval #1

Movement	EB	WB	WB	SB
Directions Served	L	T	TR	LR
Maximum Queue (ft)	21	15	44	42
Average Queue (ft)	4	2	11	20
95th Queue (ft)	21	15	41	48
Link Distance (ft)		8	8	488
Upstream Blk Time (%)		0	3	
Queuing Penalty (veh)		2	16	
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	1			
Queuing Penalty (veh)	8			

Intersection: 9: 3300 South & 540 East, Interval #2

Movement	EB	WB	WB	SB
Directions Served	L	T	TR	LR
Maximum Queue (ft)	21	3	35	48
Average Queue (ft)	5	0	10	21
95th Queue (ft)	23	6	37	52
Link Distance (ft)		8	8	488
Upstream Blk Time (%)		0	2	
Queuing Penalty (veh)		1	13	
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	1			
Queuing Penalty (veh)	6			

Intersection: 9: 3300 South & 540 East, Interval #3

Movement	EB	EB	WB	WB	SB
Directions Served	L	T	T	TR	LR
Maximum Queue (ft)	22	5	25	37	44
Average Queue (ft)	4	1	6	14	22
95th Queue (ft)	22	10	27	44	52
Link Distance (ft)		290	8	8	488
Upstream Blk Time (%)			2	4	
Queuing Penalty (veh)			11	26	
Storage Bay Dist (ft)	25				
Storage Blk Time (%)	1				
Queuing Penalty (veh)	9				

Intersection: 9: 3300 South & 540 East, Interval #4

Movement	EB	WB	WB	SB
Directions Served	L	T	TR	LR
Maximum Queue (ft)	15	24	31	46
Average Queue (ft)	3	3	10	22
95th Queue (ft)	17	19	33	55
Link Distance (ft)		8	8	488
Upstream Blk Time (%)		1	3	
Queuing Penalty (veh)		5	17	
Storage Bay Dist (ft)	25			
Storage Blk Time (%)	2			
Queuing Penalty (veh)	11			

Intersection: 9: 3300 South & 540 East, All Intervals

Movement	EB	EB	WB	WB	SB
Directions Served	L	T	T	TR	LR
Maximum Queue (ft)	28	5	31	52	60
Average Queue (ft)	4	0	3	11	21
95th Queue (ft)	21	5	18	39	52
Link Distance (ft)		290	8	8	488
Upstream Blk Time (%)			1	3	
Queuing Penalty (veh)			5	18	
Storage Bay Dist (ft)	25				
Storage Blk Time (%)	1				
Queuing Penalty (veh)	9				

Intersection: 11: 500 East & 3360 South, Interval #1

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	33	74	27	60
Average Queue (ft)	9	45	5	25
95th Queue (ft)	34	74	25	67
Link Distance (ft)	490	506	693	400
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Ouguing Donalty (yoh)				

Intersection: 11: 500 East & 3360 South, Interval #2

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	31	70	36	81
Average Queue (ft)	11	48	6	32
95th Queue (ft)	36	78	32	82
Link Distance (ft)	490	506	693	400
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

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Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	30	80	28	88
Average Queue (ft)	12	48	6	35
95th Queue (ft)	38	76	29	96
Link Distance (ft)	490	506	693	400
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				

Intersection: 11: 500 East & 3360 South, Interval #4

Queuing Penalty (veh)

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	31	74	28	81
Average Queue (ft)	14	46	4	29
95th Queue (ft)	39	75	21	78
Link Distance (ft)	490	506	693	400
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Owardan Danally (walk)				

Intersection: 11: 500 East & 3360 South, All Intervals

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	36	98	49	117
Average Queue (ft)	12	47	5	30
95th Queue (ft)	37	76	27	82
Link Distance (ft)	490	506	693	400
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

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Intersection: 14: East Access & 3300 South, Interval #1

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	24	34
Average Queue (ft)	7	13
95th Queue (ft)	27	39
Link Distance (ft)		361
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 14: East Access & 3300 South, Interval #2

Movement	EB	WB	NB
Directions Served	T	L	LR
Maximum Queue (ft)	5	27	33
Average Queue (ft)	1	7	10
95th Queue (ft)	11	28	35
Link Distance (ft)	243		361
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		100	
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 14: East Access & 3300 South, Interval #3

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	28	34
Average Queue (ft)	8	13
95th Queue (ft)	31	38
Link Distance (ft)		361
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 14: East Access & 3300 South, Interval #4

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	30	36
Average Queue (ft)	6	13
95th Queue (ft)	27	41
Link Distance (ft)		361
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 14: East Access & 3300 South, All Intervals

Movement	EB	WB	NB
Directions Served	T	L	LR
Maximum Queue (ft)	5	37	39
Average Queue (ft)	0	7	12
95th Queue (ft)	6	28	38
Link Distance (ft)	243		361
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		100	
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 16: West Access & 3300 South, Interval #1

Movement	WB	WB	WB	NB
Directions Served	L	T	Т	LR
Maximum Queue (ft)	12	17	50	27
Average Queue (ft)	2	3	12	7
95th Queue (ft)	13	23	50	29
Link Distance (ft)		243	243	360
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	100			
Storage Blk Time (%)				
Queuing Penalty (veh)				

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Intersection: 16: West Access & 3300 South, Interval #2

Movement	WB	WB	WB	NB
Directions Served	L	Т	T	LR
Maximum Queue (ft)	26	10	26	28
Average Queue (ft)	5	1	5	11
95th Queue (ft)	24	16	25	35
Link Distance (ft)		243	243	360
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	100			
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 16: West Access & 3300 South, Interval #3

Movement	WB	WB	WB	NB
Directions Served	L	T	T	LR
Maximum Queue (ft)	21	43	60	30
Average Queue (ft)	7	7	16	8
95th Queue (ft)	28	43	58	32
Link Distance (ft)		243	243	360
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	100			
Storage Blk Time (%)		0		
Queuing Penalty (veh)		0		

Intersection: 16: West Access & 3300 South, Interval #4

Movement	WB	WB	WB	NB
Directions Served	L	T	T	LR
Maximum Queue (ft)	18	32	50	26
Average Queue (ft)	3	5	10	8
95th Queue (ft)	19	31	45	32
Link Distance (ft)		243	243	360
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	100			
Storage Blk Time (%)				
Queuing Penalty (veh)				

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Intersection: 16: West Access & 3300 South , All Intervals

Movement	WB	WB	WB	NB
Directions Served	L	T	T	LR
Maximum Queue (ft)	33	59	79	40
Average Queue (ft)	4	4	10	9
95th Queue (ft)	22	30	46	32
Link Distance (ft)		243	243	360
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	100			
Storage Blk Time (%)		0		
Queuing Penalty (veh)		0		

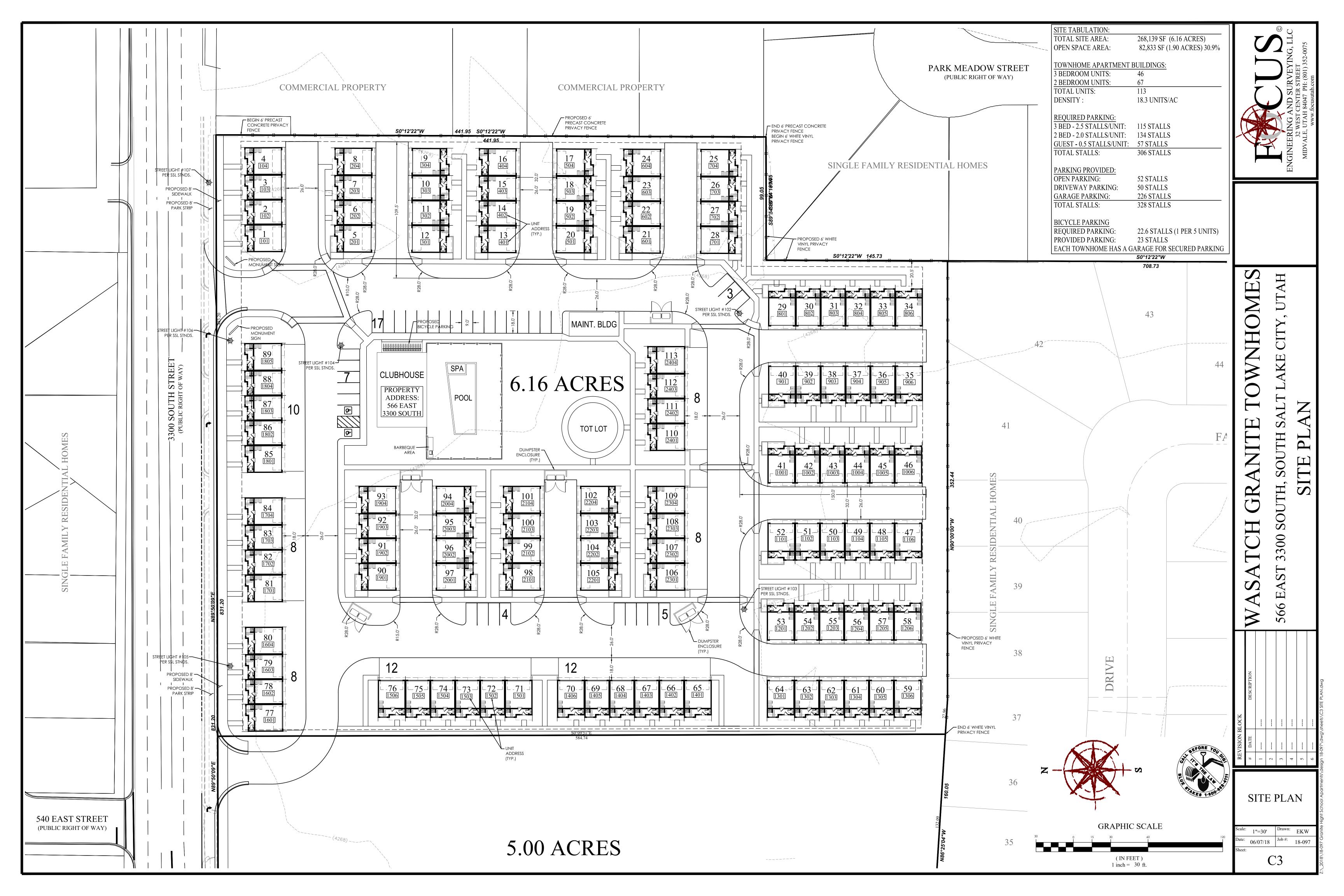
Network Summary

Network wide Queuing Penalty, Interval #1: 590	
Network wide Queuing Penalty, Interval #2: 572	
Network wide Queuing Penalty, Interval #3: 953	
Network wide Queuing Penalty, Interval #4: 765	
Network wide Queuing Penalty, All Intervals: 720	



APPENDIX C

Site Plan





APPENDIX D

95th Percentile Queue Length Reports

SimTraffic Queueing Report

HALES PENGINEERING Innovative transportation solutions

Project: South Salt Lake - Wasatch Granite Townhomes TIS Analysis: Existing (2018) Background Time Period: Evening Peak Hour

95th Percentile Queue Length (feet)

Project #: UT18-1209

			EB				NB			,	SB			WB	
Intersection	١	LR	Т	TR	L	LT	Т	TR	L	LR	Т	TR	L	T	TR
3300 South & 540 East	23		0							45				28	37
500 East & 3300 South	93		242	229	120			189	108			207	178	304	320
500 East & 3360 South		28				20									
700 East & 3300 South	319		405	432	249		457	328	448		507	313	411	692	679

SimTraffic Queueing Report

SimTraffic Queueing Report HALES ENGINEERING Project: South Salt Lake - Wasatch Granite Townhomes TIS ENGINEERING

Analysis: Existing (2018) Plus Project Time Period: Evening Peak Hour 95th Percentile Queue Length (feet)

D		щ.	LITA	0.4	200
Pro	ect	₩:	UII	8-1	209

			EB				N	3				SB			WE	3
Intersection	L	LR	T	TR	L	LR	LT	T	TR	L	LR	T	TR	L	Т	TR
3300 South & 540 East	23		2								45				16	33
500 East & 3300 South	74		243	233	125				194	115			219	175	308	323
500 East & 3360 South		31					20									
700 East & 3300 South	387		507	531	240			433	293	427		486	304	423	694	672
East Access & 3300 South			16	20		40								28		
West Access & 3300 South						32								20	23	

SimTraffic Queueing Report

Project: South Salt Lake - Wasatch Granite Townhomes TIS

Innovative transportation solutions

Analysis: Future (2024) Background Time Period: Evening Peak Hour 95th Percentile Queue Length (feet)

Project #: UT18-1209

			ЕΒ			N	IB				SB					WB	
Intersection	L	LTR	T	TR	L	LTR	T	TR	L	LR	LTR	T	TR	L	LTR	Т	TR
3300 South & 540 East	24									55						22	44
500 East & 3300 South	93		271	268	172			268	121				248	206		310	325
500 East & 3360 South		38				23					89				79		
700 East & 3300 South	379		473	498	418		677	515	544			547	350	511		1,138	1,112

Project: South Salt Lake - Wasatch Granite Townhomes TIS

Analysis: Future (2024) Background - Mitigated

Project #: UT18-1209

Analysis: Future (2024) Background - Mitigated

Time Period: Evening Peak Hour 95th Percentile Queue Length (feet)

			EB				١	NB				SB					WB		
Intersection	L	LTR	R	T	TR	L	LTR	T	TR	L	LR	LTR	T	TR	L	LTR	R	T	TR
3300 South & 540 East	25										52							63	78
500 East & 3300 South	94			275	274	168			267	113				235	233			331	337
500 East & 3360 South		40					21					71				83			
700 East & 3300 South	286		230	347		293		534	392	468			501	315	278		260	376	

SimTraffic Queueing Report

Project: South Salt Lake - Wasatch Granite Townhomes TIS

Analysis: Future (2024) Plus Project Time Period: Evening Peak Hour 95th Percentile Queue Length (feet)



Project #: UT18-1209

			EB					NB					SB					WB		
Intersection	L	LTR	R	T	TR	L	LR	LTR	T	TR	L	LR	LTR	Т	TR	L	LTR	R	T	TR
3300 South & 540 East	21			5								52							18	39
500 East & 3300 South	116			280	274	166				265	131				238	235			323	336
500 East & 3360 South		37						27					82				76			
700 East & 3300 South	334		240	332		289			478	346	484			511	311	308		254	388	
East Access & 3300 South				6			38									28				
West Access & 3300 South							32									22			38	



APPENDIX E

Right-turn Pocket Analysis (LOS & 95th Percentile Queue Results)



SimTraffic LOS Report

South Salt Lake - 500 East / 3300 South evaluation TIS Project:

Analysis Period:

Future (2024) No NB Right-turn Pocket Evening Peak Hour Time Period: Project #: *UT17-1000*

Intersection: 500 East & 3300 South

Type: Signalized

Type.		Orginanizoa				
Annroach	Mayamant	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	112	110	98	61.2	Ε
NB	Т	158	149	94	40.4	D
IND	R	111	108	97	29.1	С
	Subtotal	381	367	96	43.3	D
	L	74	74	100	53.3	D
SB	Т	171	168	98	41.4	D
SD	R	60	61	102	29.5	С
	Subtotal	305	303	99	41.9	D
	L	60	56	94	26.0	С
EB	Т	999	1,010	101	12.5	В
EB	R	167	165	99	10.6	В
	Subtotal	1,226	1,231	100	12.9	В
	L	122	121	99	74.1	Ε
WB	Т	898	880	98	21.9	С
VVD	R	72	75	104	19.9	В
	Subtotal	1,092	1,076	99	27.6	С
Total		3,004	2,977	99	25.0	С

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.4	0.6
Total Delay (hr)	0.1	0.9	0.1	0.5	1.4	0.1	0.5	0.4	0.2	0.3	0.4	0.1
Total Del/Veh (s)	23.5	13.0	10.7	60.7	22.2	18.9	55.3	36.4	27.2	57.8	36.6	28.8
Vehicles Entered	16	241	40	27	217	16	30	36	25	19	40	16
Vehicles Exited	15	243	40	27	227	17	30	36	25	20	39	16
Hourly Exit Rate	60	972	160	108	908	68	120	144	100	80	156	64
Input Volume	58	970	162	118	873	70	109	153	108	72	166	58
% of Volume	103	100	99	92	104	97	110	94	93	111	94	110

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	5.1
Total Del/Veh (s)	24.2
Vehicles Entered	723
Vehicles Exited	735
Hourly Exit Rate	2940
Input Volume	2917
% of Volume	101

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.4	0.4
Total Delay (hr)	0.1	0.8	0.1	0.4	1.2	0.1	0.5	0.5	0.2	0.3	0.5	0.1
Total Del/Veh (s)	22.7	11.0	9.2	48.9	20.4	21.0	59.7	42.9	31.6	53.5	40.4	30.4
Vehicles Entered	13	251	41	29	212	18	27	38	25	17	43	14
Vehicles Exited	13	248	40	28	202	17	26	38	25	16	44	13
Hourly Exit Rate	52	992	160	112	808	68	104	152	100	64	176	52
Input Volume	58	970	162	118	873	70	109	153	108	72	166	58
% of Volume	90	102	99	95	93	97	95	99	93	89	106	90

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.8
Total Del/Veh (s)	23.1
Vehicles Entered	728
Vehicles Exited	710
Hourly Exit Rate	2840
Input Volume	2917
% of Volume	97

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.5	0.5
Total Delay (hr)	0.1	1.2	0.2	1.0	1.5	0.1	0.6	0.4	0.2	0.2	0.5	0.2
Total Del/Veh (s)	28.5	14.2	12.7	97.2	22.5	20.3	62.7	36.8	28.0	44.7	40.6	35.3
Vehicles Entered	15	283	44	34	228	20	30	37	29	18	46	17
Vehicles Exited	14	283	44	30	236	20	30	37	29	19	45	17
Hourly Exit Rate	56	1132	176	120	944	80	120	148	116	76	180	68
Input Volume	65	1086	182	133	975	78	122	172	121	80	186	65
% of Volume	86	104	97	90	97	103	98	86	96	95	97	105

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	6.2
Total Del/Veh (s)	26.7
Vehicles Entered	801
Vehicles Exited	804
Hourly Exit Rate	3216
Input Volume	3265
% of Volume	98

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.5	0.5
Total Delay (hr)	0.1	0.8	0.1	0.6	1.3	0.1	0.4	0.5	0.3	0.3	0.5	0.1
Total Del/Veh (s)	22.3	11.1	9.6	61.7	20.8	17.8	56.7	42.0	29.1	51.5	41.0	26.4
Vehicles Entered	12	237	40	30	226	19	25	38	29	17	42	14
Vehicles Exited	13	237	40	33	217	18	25	38	29	17	42	13
Hourly Exit Rate	52	948	160	132	868	72	100	152	116	68	168	52
Input Volume	58	970	162	118	873	70	109	153	108	72	166	58
% of Volume	90	98	99	112	99	103	92	99	107	94	101	90

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	5.0
Total Del/Veh (s)	23.6
Vehicles Entered	729
Vehicles Exited	722
Hourly Exit Rate	2888
Input Volume	2917
% of Volume	99

3: 500 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Denied Del/Veh (s)	2.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.5	0.5
Total Delay (hr)	0.4	3.6	0.5	2.5	5.4	0.4	2.0	1.7	0.9	1.1	2.0	0.5
Total Del/Veh (s)	26.1	12.8	10.8	74.5	21.8	19.8	62.2	41.4	29.7	54.8	41.3	31.0
Vehicles Entered	55	1012	164	120	883	73	112	149	108	72	170	60
Vehicles Exited	55	1011	164	119	882	73	112	149	108	72	170	59
Hourly Exit Rate	55	1011	164	119	882	73	112	149	108	72	170	59
Input Volume	60	999	167	122	898	72	112	158	111	74	171	60
% of Volume	92	101	98	98	98	101	100	94	97	97	99	99

3: 500 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.3
Total Delay (hr)	21.1
Total Del/Veh (s)	25.2
Vehicles Entered	2978
Vehicles Exited	2974
Hourly Exit Rate	2974
Input Volume	3004
% of Volume	99

Total Zone Performance By Interval

Interval Start	4:00	4:15	4:30	4:45	All
Denied Delay (hr)	0.1	0.1	0.1	0.1	0.2
Denied Del/Veh (s)	0.6	0.5	0.6	0.5	0.6
Total Delay (hr)	5.1	4.8	6.2	5.0	21.1
Total Del/Veh (s)	831.9	422.1	640.1	439.2	1810.0
Vehicles Entered	372	379	423	362	1534
Vehicles Exited	1	1	0	1	2
Hourly Exit Rate	4	4	0	4	2
Input Volume	2917	2917	3265	2917	3004
% of Volume	0	0	0	0	0

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	94	302	293	201	290	306	176	228	154	224	
Average Queue (ft)	39	182	174	103	232	253	111	141	80	133	
95th Queue (ft)	102	293	288	206	314	333	203	254	163	235	
Link Distance (ft)		941	941		290	290		400		694	
Upstream Blk Time (%)					2	4		0			
Queuing Penalty (veh)					8	20		0			
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	20		17	25		17	26	9	24	
Queuing Penalty (veh)	2	12		75	29		45	28	21	17	

Intersection: 3: 500 East & 3300 South, Interval #2

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	73	251	237	181	296	294	158	238	106	237	
Average Queue (ft)	34	179	167	107	224	245	92	150	56	136	
95th Queue (ft)	78	264	254	217	314	321	164	257	107	238	
Link Distance (ft)		941	941		290	290		400		694	
Upstream Blk Time (%)					2	2		0			
Queuing Penalty (veh)					8	13		0			
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	19		10	22		14	32	6	27	
Queuing Penalty (veh)	1	11		46	26		36	35	14	19	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	TR	L	TR	
Maximum Queue (ft)	101	314	318	250	310	303	187	270	115	264	
Average Queue (ft)	42	206	214	150	248	260	115	172	63	166	
95th Queue (ft)	107	318	329	272	332	333	216	298	123	314	
Link Distance (ft)		941	941		290	290		400		694	
Upstream Blk Time (%)					6	5		1			
Queuing Penalty (veh)					37	31		5			
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	23		45	26		20	27	4	29	
Queuing Penalty (veh)	1	15		221	34		58	32	9	23	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	90	249	246	205	297	297	165	296	107	218	
Average Queue (ft)	37	173	159	124	240	253	88	153	59	134	
95th Queue (ft)	102	269	264	237	329	326	182	291	114	222	
Link Distance (ft)		941	941		290	290		400		694	
Upstream Blk Time (%)					3	3		1			
Queuing Penalty (veh)					16	17		3			
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	18		22	23		12	29	4	27	
Queuing Penalty (veh)	1	10		96	27		32	32	9	20	

Intersection: 3: 500 East & 3300 South, All Intervals

Movement	EB	EB	EB	WB	WB	WB	NB	NB	SB	SB	
Directions Served	L	Т	TR	L	Т	TR	L	TR	L	TR	
Maximum Queue (ft)	159	339	342	250	316	311	229	318	179	311	
Average Queue (ft)	38	185	179	121	236	253	101	154	64	142	
95th Queue (ft)	98	289	290	237	324	329	194	277	130	257	
Link Distance (ft)		941	941		290	290		400		694	
Upstream Blk Time (%)					3	4		1			
Queuing Penalty (veh)					17	20		2			
Storage Bay Dist (ft)	100			100			100		100		
Storage Blk Time (%)	0	20		24	24		16	28	6	27	
Queuing Penalty (veh)	1	12		110	29		43	32	13	20	

Zone Summary

Zone wide Queuing Penalty, Interval #1: 258

Zone wide Queuing Penalty, Interval #2: 208

Zone wide Queuing Penalty, Interval #3: 467

Zone wide Queuing Penalty, Interval #4: 262

Zone wide Queuing Penalty, All Intervals: 299

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SimTraffic Queueing Report

Project: South Salt Lake - 500 East / 3300 South evaluation TIS

Analysis: Future (2024) No NB Right-turn Pocket

Time Period: Evening Peak Hour 95th Percentile Queue Length (feet)

Pro	iect	#:	UT1	8-1	209
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		EB		NB		SB		WB		
Intersection	L	T	TR	L	TR	L	TR	L	T	TR
500 East & 3300 South	92	283	288	189	273	136	258	245	325	330



SimTraffic LOS Report

South Salt Lake - 500 East / 3300 South evaluation Project:

Analysis Period:

Future (2024) With NB Right-turn Pocket Evening Peak Hour Time Period: Project #: UT18-1209

Intersection: 500 East & 3300 South

Type: Signalized

Type.		Orginanizoa				
Annragah	Mayamant	Demand	Volume	Served	Delay/Ve	h (sec)
Approach	Movement	Volume	Avg	%	Avg	LOS
	L	112	110	98	58.2	Ε
NB	Т	158	156	99	37.5	D
IND	R	111	111	100	10.1	В
	Subtotal	381	377	99	35.5	D
	L	74	68	92	50.4	D
SB	Т	171	162	95	42.4	D
36	R	60	53	89	29.4	С
	Subtotal	305	283	93	41.9	D
	L	60	58	97	27.3	С
EB	Т	999	1,031	103	11.9	В
LD	R	167	170	102	10.9	В
	Subtotal	1,226	1,259	103	12.5	В
	L	122	119	98	90.2	F
WB	Т	898	900	100	20.8	С
WD	R	72	70	97	19.3	В
	Subtotal	1,092	1,089	100	28.3	С
Total		3,004	3,008	100	23.9	С

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.3	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.5	0.4
Total Delay (hr)	0.1	0.9	0.1	0.5	1.4	0.1	0.4	0.4	0.1	0.2	0.5	0.1
Total Del/Veh (s)	27.5	12.1	9.6	62.6	21.4	18.8	49.2	36.3	9.8	44.7	40.3	28.1
Vehicles Entered	14	249	43	28	216	16	26	40	24	16	41	13
Vehicles Exited	14	253	43	26	227	17	27	40	24	16	40	13
Hourly Exit Rate	56	1012	172	104	908	68	108	160	96	64	160	52
Input Volume	58	970	162	118	873	70	109	153	108	72	166	58
% of Volume	97	104	106	88	104	97	99	105	89	89	96	90

3: 500 East & 3300 South Performance by movement Interval #1 4:00

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.8
Total Del/Veh (s)	22.5
Vehicles Entered	726
Vehicles Exited	740
Hourly Exit Rate	2960
Input Volume	2917
% of Volume	101

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.1	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.4	0.5
Total Delay (hr)	0.1	0.7	0.1	0.7	1.2	0.1	0.4	0.4	0.1	0.2	0.5	0.1
Total Del/Veh (s)	21.8	9.9	8.8	69.7	19.0	17.5	57.6	37.4	8.2	48.6	39.9	29.2
Vehicles Entered	13	246	43	30	221	18	26	35	30	17	39	13
Vehicles Exited	13	243	42	32	210	18	24	36	31	16	39	13
Hourly Exit Rate	52	972	168	128	840	72	96	144	124	64	156	52
Input Volume	58	970	162	118	873	70	109	153	108	72	166	58
% of Volume	90	100	104	108	96	103	88	94	115	89	94	90

3: 500 East & 3300 South Performance by movement Interval #2 4:15

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.5
Total Del/Veh (s)	21.6
Vehicles Entered	731
Vehicles Exited	717
Hourly Exit Rate	2868
Input Volume	2917
% of Volume	98

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.1	3.7	0.4	0.5
Total Delay (hr)	0.2	1.1	0.2	1.1	1.5	0.1	0.5	0.4	0.1	0.3	0.5	0.1
Total Del/Veh (s)	31.0	13.2	13.3	114.2	22.1	20.1	56.8	34.0	11.1	43.8	37.2	25.8
Vehicles Entered	17	284	46	34	238	17	31	43	29	19	43	14
Vehicles Exited	16	283	46	29	248	18	33	40	28	19	43	14
Hourly Exit Rate	64	1132	184	116	992	72	132	160	112	76	172	56
Input Volume	65	1086	182	133	975	78	122	172	121	80	186	65
% of Volume	98	104	101	87	102	92	108	93	93	95	92	86

3: 500 East & 3300 South Performance by movement Interval #3 4:30

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	6.1
Total Del/Veh (s)	25.6
Vehicles Entered	815
Vehicles Exited	817
Hourly Exit Rate	3268
Input Volume	3265
% of Volume	100

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	2.2	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.4	0.3
Total Delay (hr)	0.1	8.0	0.1	0.7	1.2	0.1	0.5	0.4	0.1	0.2	0.5	0.1
Total Del/Veh (s)	22.2	11.0	10.4	75.8	19.1	18.9	57.2	37.1	10.8	48.8	43.8	30.6
Vehicles Entered	13	253	39	28	224	17	27	38	28	16	39	13
Vehicles Exited	14	252	39	31	215	17	26	40	28	16	40	13
Hourly Exit Rate	56	1008	156	124	860	68	104	160	112	64	160	52
Input Volume	58	970	162	118	873	70	109	153	108	72	166	58
% of Volume	97	104	96	105	99	97	95	105	104	89	96	90

3: 500 East & 3300 South Performance by movement Interval #4 4:45

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	4.9
Total Del/Veh (s)	22.7
Vehicles Entered	735
Vehicles Exited	731
Hourly Exit Rate	2924
Input Volume	2917
% of Volume	100

3: 500 East & 3300 South Performance by movement Entire Run

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Denied Del/Veh (s)	2.1	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.4	0.4
Total Delay (hr)	0.4	3.5	0.5	3.1	5.3	0.4	1.8	1.6	0.3	1.0	1.9	0.4
Total Del/Veh (s)	27.3	11.9	10.9	90.2	20.8	19.3	58.2	37.5	10.1	50.4	42.4	29.4
Vehicles Entered	58	1032	171	120	899	69	110	156	111	68	162	53
Vehicles Exited	58	1031	170	119	900	70	110	156	111	68	162	53
Hourly Exit Rate	58	1031	170	119	900	70	110	156	111	68	162	53
Input Volume	60	999	167	122	898	72	112	158	111	74	171	60
% of Volume	97	103	102	98	100	97	98	99	100	92	95	89

3: 500 East & 3300 South Performance by movement Entire Run

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.3
Total Delay (hr)	20.2
Total Del/Veh (s)	23.9
Vehicles Entered	3009
Vehicles Exited	3008
Hourly Exit Rate	3008
Input Volume	3004
% of Volume	100

Total Zone Performance By Interval

Interval Start	4:00	4:15	4:30	4:45	All
Denied Delay (hr)	0.1	0.1	0.1	0.1	0.2
Denied Del/Veh (s)	0.6	0.5	0.6	0.6	0.6
Total Delay (hr)	4.8	4.5	6.1	4.9	20.2
Total Del/Veh (s)	717.1	418.7	623.6	437.0	1734.4
Vehicles Entered	376	371	423	373	1545
Vehicles Exited	0	1	0	0	2
Hourly Exit Rate	0	4	0	0	2
Input Volume	2917	2917	3265	2917	3004
% of Volume	0	0	0	0	0

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	T	R	L	TR	
Maximum Queue (ft)	74	280	270	216	286	287	131	190	125	128	212	
Average Queue (ft)	37	173	173	102	221	237	82	109	46	64	140	
95th Queue (ft)	78	265	268	216	317	315	142	209	117	135	229	
Link Distance (ft)		941	941		279	279		400			694	
Upstream Blk Time (%)					2	4						
Queuing Penalty (veh)					11	19						
Storage Bay Dist (ft)	100			100			100		100	100		
Storage Blk Time (%)	0	20		17	22		11	17	0	3	24	
Queuing Penalty (veh)	2	12		73	26		27	37	1	6	18	

Intersection: 3: 500 East & 3300 South, Interval #2

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	T	R	L	TR	
Maximum Queue (ft)	59	237	230	216	270	283	128	156	84	115	208	
Average Queue (ft)	34	162	158	121	211	232	78	92	44	56	130	
95th Queue (ft)	71	247	245	225	296	309	131	159	87	124	213	
Link Distance (ft)		941	941		279	279		400			694	
Upstream Blk Time (%)					1	3						
Queuing Penalty (veh)					5	14						
Storage Bay Dist (ft)	100			100			100		100	100		
Storage Blk Time (%)	0	16		25	19		9	13	0	3	25	
Queuing Penalty (veh)	1	9		109	23		23	29	0	6	18	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	
Directions Served	L	Τ	TR	L	T	TR	L	T	R	L	TR	
Maximum Queue (ft)	130	289	305	248	298	290	164	196	102	99	221	
Average Queue (ft)	47	196	199	149	249	258	112	114	52	65	139	
95th Queue (ft)	118	305	315	281	322	320	189	217	115	108	237	
Link Distance (ft)		941	941		279	279		400			694	
Upstream Blk Time (%)					9	5						
Queuing Penalty (veh)					52	29						
Storage Bay Dist (ft)	100			100			100		100	100		
Storage Blk Time (%)	2	23		44	24		21	15	0	3	23	
Queuing Penalty (veh)	10	15		216	32		61	37	1	7	19	

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	T	R	L	TR	
Maximum Queue (ft)	89	266	274	204	284	289	138	169	108	102	218	
Average Queue (ft)	39	178	173	123	224	238	83	104	52	58	130	
95th Queue (ft)	104	284	286	240	316	315	142	177	111	118	215	
Link Distance (ft)		941	941		279	279		400			694	
Upstream Blk Time (%)					3	3						
Queuing Penalty (veh)					17	14						
Storage Bay Dist (ft)	100			100			100		100	100		
Storage Blk Time (%)	0	18		27	19		13	16	0	2	27	
Queuing Penalty (veh)	1	10		119	23		35	34	1	5	20	

Intersection: 3: 500 East & 3300 South, All Intervals

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	
Directions Served	L	T	TR	L	T	TR	L	T	R	L	TR	
Maximum Queue (ft)	134	314	316	249	307	298	186	229	153	172	249	
Average Queue (ft)	40	177	176	123	226	241	89	105	49	61	135	
95th Queue (ft)	95	278	282	244	316	317	156	193	109	122	224	
Link Distance (ft)		941	941		279	279		400			694	
Upstream Blk Time (%)					4	3						
Queuing Penalty (veh)					21	19						
Storage Bay Dist (ft)	100			100			100		100	100		
Storage Blk Time (%)	1	19		28	21		13	15	0	3	25	
Queuing Penalty (veh)	3	11		129	26		36	34	1	6	18	

Zone Summary

Zone wide Queuing Penalty, Interval #1: 231

Zone wide Queuing Penalty, Interval #2: 237

Zone wide Queuing Penalty, Interval #3: 477

Zone wide Queuing Penalty, Interval #4: 278

Zone wide Queuing Penalty, All Intervals: 306

SimTraffic Queueing Report

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Project #: UT18-1209

Project: South Salt Lake - 500 East / 3300 South evaluation TIS

Analysis: Future (2024) With NB Right-turn Pocket

Time Period: Evening Peak Hour 95th Percentile Queue Length (feet)

	EB		NB				SB	WB			
Intersection	L	T	TR	L	R	T	L	TR	L	T	TR
500 East & 3300 South	95	278	282	156	109	193	122	224	244	316	317