ATTACHMENT NO. 6

Park Century School Transportation Impact Study

Prepared for: Park Century School

October 2018

LA16-2985





Memorandum

Date: August 9,2019

To: Jose Mendivil & Heba El-Guindy (Culver City)

CC: Paul Jennings and Jennifer Palmer (Park Century School)

From: John Muggridge (Fehr & Peers)

Subject: 3939 Landmark Street Transportation Impact Study, October 2018– Public

Works Traffic Conditions of Development

LA17-2985

Revised Traffic Conditions of Development

The following revisions to the project conditions have been requested and provided by the Culver City Department of Public Works, replacing and adding to what is currently described in the traffic study. Condition 1 below replaces the proposed Washington Boulevard left turn restriping on page 48 of the 3939 Landmark Street Park Century School Transportation Impact Study, October 2018. Conditions 4, 6 and 7 (which apply during construction) replace the pickup and drop off operation and location described as part of the Construction Traffic Management Program on pages 43 and 44 of the 3939 Landmark Street Park Century School Transportation Impact Study, October 2018.

Conditions 2, 3 and 5 were not described in the 3939 Landmark Street Park Century School Transportation Impact Study, October 2018 and are new conditions for the project.

1. The Project shall be responsible for designing and restriping the turn lanes and striped center median on Washington Boulevard between Landmark Street and National Boulevard. The restriping shall increase the left-turn lane storage for both westbound Washington Boulevard at Landmark Street and eastbound Washington Boulevard at National Boulevard. The striping shall provide equal lengths of back-to back left-turn storage for both left-turn lanes and associated tapering. The striping plan, form of removal and application of the pavement markings must be approved by the City. In the future, the



City may restripe this reach of Washington Boulevard to facilitate bicycle traffic or for other future traffic demands.

- 2. The Project shall provide ADA compliant sidewalk along its whole frontage on Landmark Street, this would involve replacement of the tree at the easterly limit of the project site.
- 3. The Project shall improve/replace its existing driveway off Landmark Street to become ADA compliant.
- 4. During construction, drop-off and pick-up of students shall take place at the parking stalls abutting to the school site on the south side of Landmark Street. The designated parking meters zone will be temporarily restricted to students' drop-off/pick-up for a maximum period of three hours covering both drop-off and pick-up time periods. Regular operation of the parking meters will continue outside of the drop-off and pick-up periods. The Project shall be responsible to pay for the cost of signs along with all sign removals and installations to accommodate the temporary drop-off/pick-up area, and for any other traffic and parking control devices needed during project construction. The Project shall also be responsible to pay for the lost parking meters revenue for the construction period. The Department of Public Works will determine the amount of lost revenue and apply necessary parking changes prior to beginning the new pick-up and drop-off procedure.
- 5. Should immediate use be needed prior to construction of the sidewalk along the project frontage, the Project shall provide safe and ADA compliant path of travel to accommodate the use of the temporary drop-off/pick-up zone on Landmark Street.
- 6. In view of the limited number of parking spaces along the frontage of the school site, the Project shall provide trained volunteers and/or school staff to assist with the drop-off/pick-up activities to minimize any potential delays. If feasible, it is also recommended that the Project stagger the start and end times of the school day in order to spread and reduce the peak demand for students' drop-off/pick-up.
- 7. Prior to the use of the temporary drop-off/pick-up zone on Landmark Street, the School shall use the school's newsletter and/or other form of communication to inform all parents of the revised drop-off/pick-up zone. Parents must not park in the existing No-Parking zones, and must drive to the end of the cul de sac to return to Washington Boulevard rather than making a three-point turn at any other location on Landmark Street.

Table of Contents

1. INTRODUCTION	6
Project Description	6
Study Scope	6
Organization Of Report	10
2. EXISTING CONDITIONS	11
Study Area	11
Existing Street System	11
Existing Transit Service	13
Existing Traffic Volumes and Levels of Service	15
Existing Traffic Volumes	15
Level of Service Methodology	18
Existing Levels of Service	20
3. TRAFFIC PROJECTIONS	22
Project Traffic	22
Project Traffic Generation	22
Project Traffic Distribution	24
Project Traffic Assignment	24
Existing plus Project Traffic Conditions	29
Future Base Traffic Conditions	29
Areawide Traffic Growth	29
Cumulative Project Traffic Generation	31
Cumulative Project Trip Distribution and Traffic Assignment	31
Future Plus Project Traffic Volumes	31
4. TRAFFIC IMPACT ANALYSIS	37
Significant Traffic Impact Criteria	37
City of Culver City	37
City of Los Angeles	38

Existing plus Project Impact Analysis	38
Existing plus Project Traffic Level of Service	38
Existing plus Project Intersection Impacts	38
Future Plus Project Impact Analysis	40
Future Base Traffic Conditions	40
Future Plus Project Traffic Conditions	40
Future Plus Project Intersection Impacts	40
Traffic Management Program	43
Construction Traffic Management Program	43
Post-Construction Traffic Management Program	43
Simulation Analysis	47
5. TRANSPORTATION DEMAND MANAGEMENT AND BICYCLE AND PEDESTRI	AN CONNECTIONS 51
Shared Commuting and Transit	51
Bicycle Parking	51
Existing and Future Bikeways	52
6. REGIONAL TRANSPORTATION IMPACT ANALYSIS	53
CMP Traffic Impact Analysis	53
Criteria for Analysis	53
Arterial Monitoring Station Analysis	54
Freeway Mainline Monitoring Station Analysis	54
Regional Transit Impact Analysis	54
7. SUMMARY AND CONCLUSIONS	56

Appendices

Appendix A: INTERSECTION TRAFFIC COUNTS

Appendix B: LOS ANALYSIS

Appendix C: MEMORANDUM OF UNDERSTANDING

Appendix D: SIMTRAFFIC RESULTS

List of Figures

Figure 1 – Study Area and Analyzed Intersections and Street Segments	8
Figure 2 – Park Century School Site Plan	9
Figure 3 – Existing Transit Service	.14
Figure 4 – Existing Peak Hour Traffic Volumes	.16
Figure 5-Project Trip Distribution	. 25
Figure 6–Project Only Peak Hour Traffic Volumes	.27
Figure 7- Existing plus Project Peak Hour Traffic Volumes	30
Figure 8– Location of Related Projects	.33
Figure 9– Related Project Peak Hour Traffic Volumes	34
Figure 10 -Future Base Peak Hour Traffic Volumes	35
Figure 11 – Future plus Project Peak Hour Traffic Volumes	.36
Figure 12 – Location of Temporary Construction Drop-Off and Pick-Up	45
Figure 13 – Vehicle Storage Capacity of Parking Area	46
Figure 14 - Conceptual Stripping Plan for Extend Westbound Left-Turn Pocket at Washington Boulevard Landmark Street	

List of Tables

Table 1 – Level of Service Definitions for Signalized Intersections	19
Table 2 – Existing Intersection Level of Service	21
Table 3– Project Trip Generation Estimates	23
Table 4– Cumulative Project Traffic Generation	32
Table 5– Existing Plus Project Level of Service	39
Table 6 – Future Base Level of Service Analysis	41
Table 7– Future Plus Project Level of Service Analysis	42
Table 8– Simulation Queue Results	49



1. INTRODUCTION

This technical report summarizes the results of a traffic study conducted by Fehr & Peers to evaluate the potential traffic impacts of the Park Century School expansion on Landmark Street in the City of Culver City, California.

PROJECT DESCRIPTION

The proposed project is located at 3939 Landmark Street in Culver City, California. Figure 1 illustrates the location of the proposed project in relation to the surrounding street system and the intersections that were analyzed as part of the development.

The Project will expand the Park Century School by 50 students and eight staff. As part of the project, the school will provide staff with subsidized transit passes to encourage transit use. This is described in more detail in chapter 3. The project traffic will enter the site from the existing driveway on Landmark Street. The site plan is illustrated Figure 2.

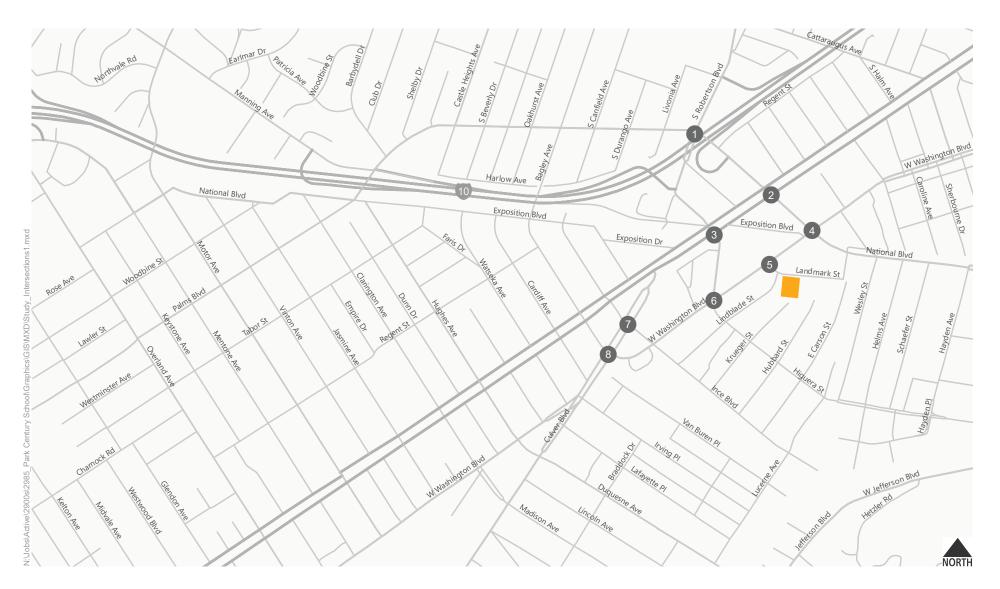
STUDY SCOPE

The scope of work for this study was developed in conjunction with the City of Culver City. The base assumptions and technical methodologies were discussed as part of a detailed Memorandum of Understanding (MOU, signed in January 2018 and updated in October 2018, included in Appendix C). The project is expected to be completed by the year 2019. The analysis of the future year traffic forecast is based on projected conditions in 2019 both with and without the addition of the project traffic. The following traffic scenarios have been developed and analyzed as part of this study:

- Existing (2018) Conditions The analysis of existing traffic conditions is intended to provide a basis for the remainder of the study. The existing conditions analysis includes a description of the street system serving the site, current traffic volumes, and an assessment of the operating conditions at these locations.
- <u>Existing (2018) plus Project Conditions</u> This traffic scenario provides projected traffic volumes and an assessment of operating conditions under existing conditions with the addition of projectgenerated traffic. The impacts of the proposed Project on existing traffic operating conditions were then identified.
- <u>Future Base (2019) Conditions</u> Future traffic conditions without the proposed project will be developed for the year 2019. The objective of this analysis is to project future traffic growth and



operating conditions that could be expected to result from regional growth and related projects in the vicinity of the project site by 2019.



Legend



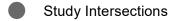
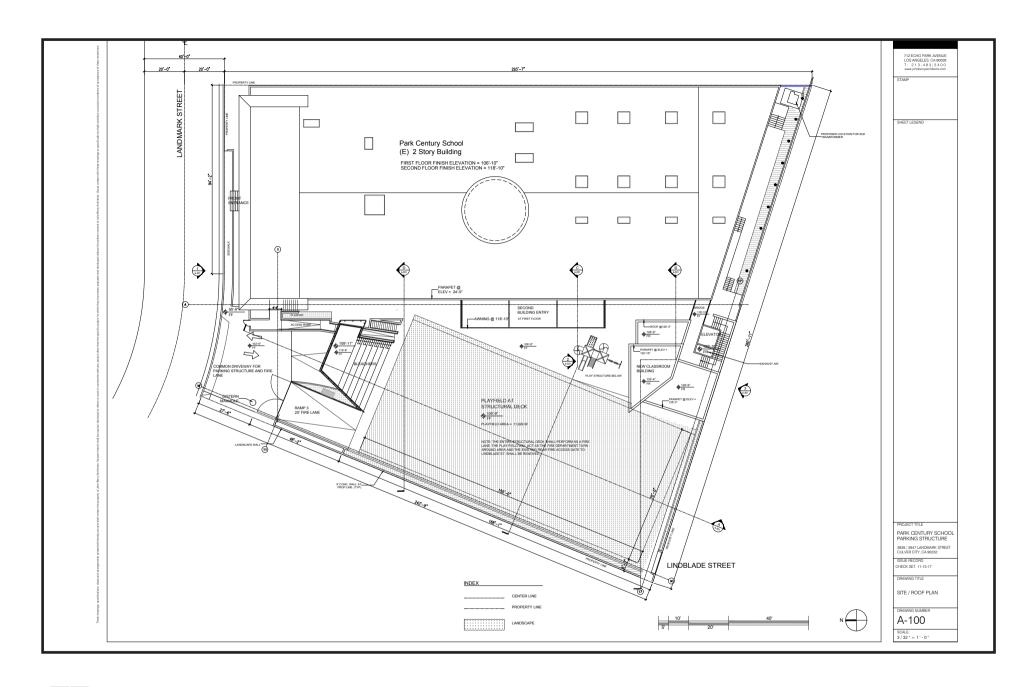




Figure 1







 <u>Future (2019) plus Project Conditions</u> – This traffic scenario provides projected traffic volumes and an assessment of operating conditions under future conditions with the addition of projectgenerated traffic. The impacts of the proposed project on future traffic operating conditions can then be identified.

The City of Culver City has identified the following eight intersections to be analyzed as part of the scope of work for this project:

- 1. Robertson Boulevard/National Boulevard (City of Los Angeles)
- 2. Venice Boulevard/ National Boulevard (City of Los Angeles)
- 3. Venice Boulevard/ Robertson Boulevard (City of Los Angeles)
- 4. Washington Boulevard/National Boulevard (City of Culver City)
- 5. Washington Boulevard/Landmark Street (City of Culver City)
- 6. Washington Boulevard/Robertson Boulevard/Higuera Street (City of Culver City)
- 7. Washington Boulevard/Culver Boulevard/Canfield Street (City of Culver City)
- 8. Culver Boulevard/Main Street (City of Culver City)

ORGANIZATION OF REPORT

This report is divided into six chapters, including this introduction. Chapter 2 describes the existing transportation conditions including an inventory of the streets, highways, and transit service in the study area, a summary of traffic volumes, and an assessment of operating conditions. The methodologies used to develop traffic forecasts for the existing, existing plus project, future base, and future plus project scenarios and the forecasts themselves are included in Chapter 3. Chapter 4 presents an assessment of potential intersection traffic impacts of the proposed project under both existing and future conditions. A discussion of Transportation Demand Management strategies and active transportation connections is provided in Chapter 5. A regional transportation impact assessment is included in Chapter 6. Chapter 7 contains the study conclusions. Appendices to this report include details of the technical analysis.



2. EXISTING CONDITIONS

A comprehensive data collection effort was undertaken to develop a detailed description of existing conditions in the study area. The assessment of conditions relevant to this study includes a description of the study area, an inventory of the local street system in the vicinity of the project site, a review of traffic volumes on these facilities, an assessment of the resultant operating conditions, and the current transit service in the study area. A detailed description of these elements is presented in this chapter.

STUDY AREA

The proposed project is located at 3939 Landmark Street in Culver City, California. The project traffic will enter the site from the existing driveway on Landmark Street. The study area for this analysis is roughly bounded by Venice and National Boulevards on the north, Washington Boulevard on the south, National Boulevard on the east, and by Main Street on the west.

EXISTING STREET SYSTEM

Washington Boulevard provides direct access to the site. Primary regional access to the site is provided by I-10. The following is a brief description of the streets that serve the site:

Freeway

 <u>Santa Monica Freeway (I-10)</u> – The Santa Monica Freeway runs east/west approximately a half mile north of the Project Site. Access to the Santa Monica Freeway can be obtained via interchanges at Robertson Boulevard, Venice Boulevard, La Cienega Boulevard, and Washington Boulevard.

Primary Arterials

- <u>Venice Boulevard</u> Venice Boulevard is State Route 187 in the study area and provides six travel lanes, three per direction, with a raised median. Restricted and unrestricted parking is available on both sides of the street in the study area. The posted speed limit is 35 miles per hour (mph).
- Washington Boulevard Washington Boulevard is a major east/west arterial that provides four travel lanes, two per direction, with a raised median near the Project Site. Restricted and metered parking is available on both sides of the street in the study area. The posted speed limit is 35 mph.
- <u>Culver Boulevard</u> Culver Boulevard is a major east/west arterial that provides four travel lanes, two per direction, with a raised median. Restricted and metered parking is available on both sides of the street in the study area. The posted speed limit is 35 mph.



- Robertson Boulevard Robertson Boulevard is a north/south road that has on- and off-ramps to the I-10 freeway in the study area. It provides four travel lanes, two per direction. Restricted parking is allowed on one side of the street in the study area. South of Washington Boulevard, the street is renamed Higuera Street and has two travel lanes, one in each direction.
- <u>National Boulevard</u> National Boulevard is an east/west arterial that provides four travel lanes, two
 per direction, near the Project Site. Restricted parking is typically allowed on both sides of the street
 west of Washington Boulevard. The posted speed limit is 35 mph. West of Robertson Boulevard,
 the street has two travel lanes, one in each direction.

Collector/Local Streets

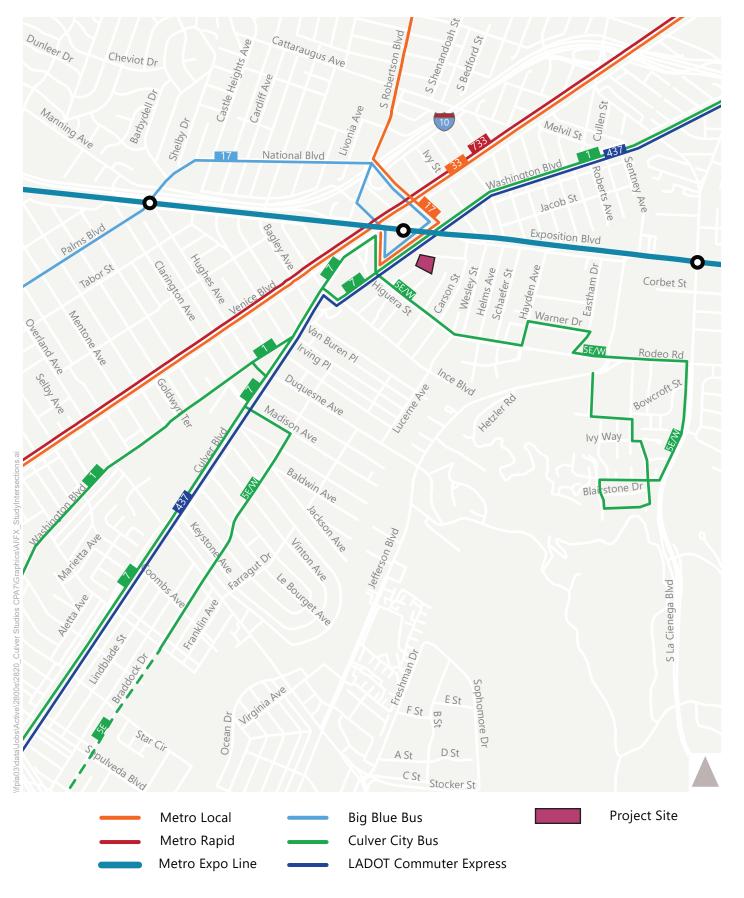
- <u>Main Street</u> Main Street is a north/south collector that provides one travel lane in each direction. Restricted parking is available on both sides of the street.
- <u>Landmark Street</u> Landmark Street is an east/west cul-de-sac that provides one travel lane in each direction. Restricted parking is available on both sides of the collector.

Diagrams of the existing and future lane configurations at each of the eight analyzed intersections are provided in Figure 4.



One rail line and six bus lines currently serve the study area. These transit lines are described below and illustrated in Figure 3:

- <u>Culver City Bus Line 1</u> Line 1 is a local east/west line that runs along Washington Boulevard from Venice Beach in the west to Washington and Fairfax in the east. This line travels along Washington Boulevard in the study area. The route travels along Washington Boulevard in the study area.
- <u>Culver City Bus Line 5</u> Line 5 is a local east/west line that runs from Blair Hills in the east to Washington and Inglewood Boulevards in the west. This line travels along Washington Boulevard, Braddock Drive and Higuera Street in the study area. Line 5 only operates when school is in session during AM and PM peak hours. The route travels along Washington Boulevard in the study area.
- <u>Culver City Bus Line 7</u> Line 7 is a local east/west line that runs from Venice Boulevard and Culver Boulevard in the east to Marina Del Rey in the west. This line travels primarily along Culver Boulevard and Washington Boulevard in the study area.
- Metro Expo Line The Expo Line is an east/west light rail line running from downtown Santa Monica to downtown Los Angeles. The study area is served by Culver City Station.
- Metro Line 17 Line 17 is an east/west line that travels from Culver City to Downtown Los Angeles.
 This line serves Culver City and Cheviot Hills. This line travels along Robertson Boulevard in the study area.
- Metro Line 33 and Line 733 Line 33/Line 733 is an east/west line that travels from downtown Los Angeles to Santa Monica. This line provides service to Union Station. This line travels along Venice Boulevard in the study area.
- <u>LADOT Commuter Express Line 437</u> Line 437 is a north/south commuter express line that travels from downtown Los Angeles to Venice. This line also serves Culver City and Marina Del Rey. This line travels along Robertson Boulevard and Culver Boulevard in the study area. Line 437 operates on weekdays only.
- Santa Monica Big Blue Bus Line 17 Line 17 travels from the Culver City Expo Station to UCLA.
 This line serves Culver City, Palms, and Sawtelle. This line travels along Palms Boulevard in the study area.







EXISTING BICYCLE AND PEDESTRIAN FACILITIES

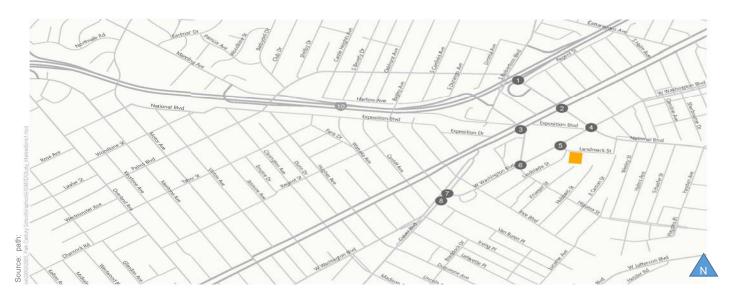
The project site is served by dedicated bicycle infrastructure within the study area. A Class I facility runs along Exposition Boulevard west of the project site, and National Boulevard east of the project site. Venice Boulevard has a Class II facility. All of the streets immediately bordering the project site and nearly all of the other streets in the vicinity include sidewalks, facilitating pedestrian movement. Marked crosswalks are present at most intersections in the study area. Pedestrian walk phases are either automatically provided at the intersections or are actuated by pedestrian push-buttons.

EXISTING TRAFFIC VOLUMES AND LEVELS OF SERVICE

This section presents the existing peak hour turning movement traffic volumes for each of the intersections analyzed in the study, describes the methodology used to assess the traffic conditions at each intersection, and analyzes the resulting operating conditions at each, indicating volume/capacity ratios and levels of service. Traffic counts are provided in Appendix A.

EXISTING TRAFFIC VOLUMES

Weekday morning, midday, and evening peak hour traffic counts were conducted at eight analyzed intersections in January 2018. Driveway counts were counted in October 2017. The existing weekday traffic volumes are illustrated in Figure 4.



Robertson BI/National BI		2. National I	BI/Venice BI	3. Robertson	BI/Venice BI	4. National Bl/Washington Bl		
245 (126) 237 (90) 237 (90) 237 (90) 24 (26) 2		(22) (1,404) Venice BI 174 (222) (1,391 (1,533) (1,533) (1,52)		Versice BI 369 (285) 1,602 (1,655) 87 (86) 87 (86) 1,602 (1,655) 87 (86) 1,602 (1,655) 87 (86) 1,602 (1,655) 1,602 (1,655) 87 (86) 1,602 (1,655) 1,602 (1,655) 87 (86)		(S)		
5. Landmark St.	/Washington Bl	6. Robertson B	/Washington BI	7. Washingto	n Bl/Culver Bl	8. Main St/Culver Bl		
Washington SI 798 (1,190) → 129 (51)	(77) 49 (77) 49 (77) 49 (77) 49 (74) 4	Washington Bl 79 (163) 713 (950) 85 (92) 85 (92)	240 (149) 1,092 (645) 77 (74) (288) 1,092 (645) (388) 1,092 (645) (688) 1,092 (645) 1,092 (645) 1,093 (645) 1,093 (645) 1,0	Cultver BI 24 (15) 732 (871) 755 (1,108)	3 (24) 222 (308) 31 (31) (627) (6	(661) 251 (001) 251 (002) 86 (111) 7 (1,430 (1,760)	100 (71) 1,322 (981) 1 (5) (0) (0) 0 0 0	

Figure 4

Peak Hour Traffic Volumes and Lane Configurations Existing (2017) Volumes- AM(PM)





1. Robertson Bl/National Bl	2. National Bl/Venice Bl	3. Robertson Bl/Venice Bl	National Bl/Washington Bl		
obertson Bi	National B	Obertson B	National Bi		
[275] [289] [99]	[64] (75) (75) (75) (75) (75) (75) (75) (75)	© 6 7 8 1 1,332	[9:2] [131] [556] [170]		
[161] 3 5 5 5 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	[116]	[324]	[52] → 「↑↑↑ [951] ⇒ □ □ □ □ □ [272] ⇒ □ □ □ □		
5. Landmark St/Washington BI	6. Robertson Bl/Washington Bl	7. Washington Bl/Culver Bl	8. Main St/Culver Bl		
[154] [154] [156] [158] Washington BI		[7] [236] Culver BI	Culver BI		
[1,133] [63] [53] [53] [53] [53] [53] [53] [53] [54] [55] [55] [55] [56	[92] \\ \[\] [965] \\ \[\] [964] \\ \[\] [92] \\ \[[18] \\ 1 \\ [613] \\ [7.073] \\ \\ [7.073] \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	[127] * ESE [1,498] = ESE		



Peak Hour Traffic Volumes and Lane Configurations Existing (2017) Volumes- MD





LEVEL OF SERVICE METHODOLOGY

Level of service (LOS) is a qualitative measure used to describe the condition of traffic flow on the street system, ranging from excellent conditions at LOS A to overloaded conditions at LOS F. LOS D is typically recognized as the minimum acceptable level of service in urban areas. Level of Service definitions for signalized intersections are provided in Table 1. All of the eight of the LOS-analyzed intersections are signalized.

Per the City of Culver City's requirements, Intersection Capacity Utilization (ICU) methodology was used to determine the intersection volume-to-capacity (V/C) ratio and corresponding LOS for the five signalized study intersections entirely in the City of Culver City.

The City of Los Angeles requires the use of Critical Movement Analysis (CMA) methodology (Transportation Research Circular No. 212, Interim Materials on Highway Capacity [Transportation Research Board, 1980]) to evaluate the operations of intersections and this methodology was used to analyze the study locations in the City of Los Angeles. The CMA method of intersection capacity analysis determines the intersection V/C ratio and corresponding LOS for the turning movements and intersection characteristics at signalized intersections. The CALCADB software package developed by LADOT was used to implement the CMA methodology at the three study intersections under City of Los Angeles jurisdiction.

TABLE 1 LEVEL OF SERVICE DEFINITIONS FOR SIGNALIZED INTERSECTIONS

	Intersection						
Level of Service	Capacity	Definition					
	Utilization						
А	0.000-0.600	EXCELLENT. No Vehicle waits longer than one rea					
		light and no approach phase is fully used					
В	0.601-0.700	VERY GOOD. An occasional approach phase is					
		fully utilized; many drivers begin to feel somewha					
		restricted within groups of vehicles					
С	0.701-0.800	GOOD. Occasionally drivers may have to wait					
		through more than one red light; backups may					
		develop behind turning vehicles					
D	0.801-0.900	FAIR. Delays may be substantial during portions					
		of the rush hours, but enough lower volume period					
		occur to permit clearing of developing lines,					
		preventing excessive backups					
E	0.901-1.000	POOR. Represents the most vehicles intersection					
		approaches can accommodate; may be long line:					
		of waiting vehicles through several signal cycles					
F	> 1.000	FAILURE. Backups from nearby locations or on					
		cross streets may restrict or prevent movement of					
		vehicles out of the intersection approaches.					
		Tremendous delays with continuously increasing					
		queue lengths					

Source: *Transportation Research Circular No. 212, Interim Materials on Highway Capacity,* Transportation Research Board, 1980.



The City of Los Angeles' Automated Traffic Surveillance and Control (ATSAC) system is a computer-based traffic signal control system that monitors traffic conditions and system performance to allow ATSAC-operations to manage signal timing to improve traffic flow conditions. The Adaptive Traffic Control System (ATCS) is an enhancement to ATSAC and provides fully traffic-adaptive signal control based on real-time traffic conditions. All signalized study intersections under City of Los Angeles jurisdiction are currently operating under the City's ATSAC system and ATCS system. ATSAC and ATCS provide improved operating conditions. In accordance with established City of Los Angeles procedures, a 0.07 V/C reduction was applied at each intersection where ATSAC is implemented and an additional 0.03 V/C reduction was applied at each intersection where ATCS is implemented.

The City of Culver City has a similar traffic control signal system at all intersections in Culver City. A 0.07 V/C reduction was applied at each intersection analyzed in Culver City.

EXISTING LEVELS OF SERVICE

The traffic volumes presented in Figure 4 were analyzed using the methodologies described above to determine the current operating conditions at the eight analyzed intersections. Table 2 summarizes the Existing Year 2018 LOS analysis results. As shown in the table, none of the intersections are currently operating at poor levels of service, i.e., LOS E or F.

Detailed LOS calculation worksheets are presented in Appendix B.

TABLE 2 EXISTING INTERSECTION LEVEL OF SERVICE

ID	N/S Street Name	E/W Street Name	Jurisdiction	Analysis Methodology	Analyzed	Existin	g
ID	N/3 Street Name	E/W Street Name	Junsaiction	Analysis Methodology	Period	V/C or Delay	LOS
1	Robertson Boulevard	National Boulevard	City of Los Angeles	CMA	AM	0.874	D
					PM	0.786	С
					MD	0.729	С
2	National Boulevard	Venice Boulevard	City of Los Angeles	CMA	AM	0.677	В
					PM	0.758	C
					MD	0.692	В
3	Robertson Boulevard	Venice Boulevard	City of Los Angeles	CMA	AM	0.776	С
					PM	0.759	C
					MD	0.644	В
4	National Boulevard	Washington Boulevard	City of Culver City	ICU	AM	0.668	В
					PM	0.775	C
					MD	0.741	С
5	Landmark Street	Washington Boulevard	City of Culver City	ICU	AM	0.489	Α
					PM	0.510	Α
					MD	0.516	Α
6	Robertson Boulevard	Washington Boulevard	City of Culver City	ICU	AM	0.802	D
					PM	0.640	В
					MD	0.582	Α
7	Washington Boulevard	Culver Boulevard	City of Culver City	ICU	AM	0.791	С
					PM	0.637	В
					MD	0.540	Α
8	Main Street	Culver Boulevard	City of Culver City	ICU	AM	0.664	В
					PM	0.722	С
					MD	0.636	В



PROJECT TRAFFIC

The development of trip generation estimates for the proposed Project is a 3-step process: trip generation, trip distribution, and traffic assignment.

PROJECT TRAFFIC GENERATION

As indicated in Chapter 1, the proposed project will expand the Park Century School by 50 students and eight staff. The project traffic will enter the site from the existing driveway on Landmark Street.

Table 3 presents the trip rates used to estimate trip generation for Park Century School. Trip generation was based on counts taken at the driveway in the fall of 2017. Vehicles were classified as either staff trips or students trips based on if a student was present in the car when either entering (in the AM) or exiting (in the midday and PM periods) the school. In addition, staff trip generation rates incorporated 10 parking spaces that the school currently rent and provide to teachers at the adjacent parking structure on Landmark Street. Trip generation rates were developed both per student and per staff by dividing the student related trips and the staff related trips by the school's current enrollment and staff size, respectively. Trip rates were developed for staff and students for the morning (7-9 AM), midday (2-4 PM), and evening periods (4-6 PM).

As part of the project, the school plans to provide staff located near transit with subsidized transit passes to encourage transit use. Due to the project's location just one block from the Culver City Expo Line Station and in close proximity to several local, rapid, and express buses, subsidizing transit passes and encouraging staff to walk or bicycle is estimated to reduce staff trips by 10%. This reduction is included in the trip generation. The school is considering other Transportation Demand Management (TDM) efforts that would reduce student related trips, but as these options have not been finalized they are not included in the trip generation.

The project is estimated to generate 62 trips (30 inbound/32 outbound) in the morning peak hour, 38 trips (22 inbound/16 outbound) in midday peak hour, and 19 trips (8 inbound/11 trips outbound) in the evening peak hour.

TABLE 3																
	PARK CENTURY SCHOOL TRIP GENERATION															
AM Total [a] AM Rate per person MD Total [b] MD Rate per person PM Total [b] PM Rate per perso										per person						
Existing On-site Population	Size	Inbound	Outbound	Total	Inbound	Outbound	Inbound	Outbound	Total	Inbound	Outbound	Inbound	Outbound	Total	Inbound	Outbound
Students [a]	120	71	75	146	0.59	0.63	51	40	91	0.43	0.33	18	26	44	0.15	0.22
Staff [b]	60	49	0	49	0.82	0.00	0	17	17	0.00	0.28	0	16	16	0.00	0.27
Total Existing Trips		120	75	195			51	57	108			18	42	60		
Proposed Project	Size		Outbound			Outbound		Outbound	Total	Inbound	Outbound					Outbound
Students	170	100	107	207	0.59	0.63	73	56	129	0.43	0.33	26	37	63	0.15	0.22
Staff	68	56	0	56	0.82	0.00	0	19	19	0.00	0.28	0	18	18	0.00	0.27
Staff Transit/bike/walk Credit [c]	10%	-6	0	-6			0	-2	-2			0	-2	-2		
Total Proposed Trips		150	107	257			73	73	146			26	53	79		
										<u> </u>						
Net New Trips		30	32	62			22	16	38			8	11	19		

[[]a] Inbound trips without students are considered staff generated. All other trips are considered student generated. Staff trips also includes 10 parking spaces at adjacent off-site garage.

[[]b] Outbound trips without students are considered staff generated. All other trips are considered student generated. Staff trips also includes 10 inbound trips from parking spaces at an adjacent off-site garage. Based on based on the driveway counts of outbound trips without students in the MD (12) and PM (11), these 10 trips were split evenly

[[]c] A 10% reduction in staff trips is expected to occur with the initiation of a subsidized transit pass program for staff, and encouraging staff to walk or bike to school.

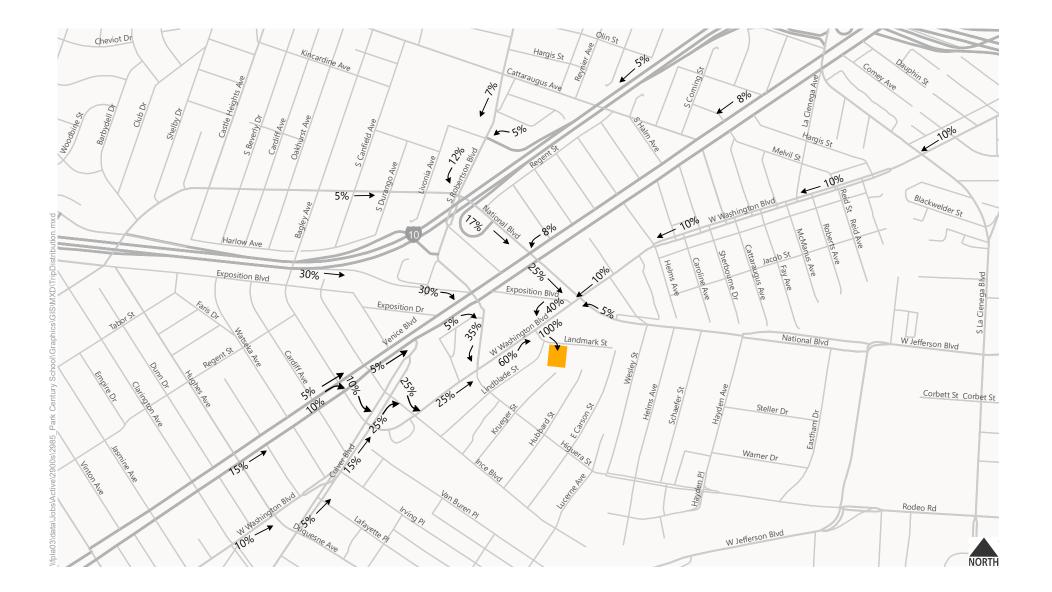


PROJECT TRAFFIC DISTRIBUTION

The geographic distribution of the traffic generated by the proposed project depends on several factors. These factors include the geographic distribution of population from which the employees and students of the proposed development are drawn, and the location of the project in relation to the surrounding street system. The general distribution pattern used in this traffic study was developed in consultation with City of Culver City traffic engineering staff during the MOU process and is illustrated in Figure 5. Project traffic will enter the site from the existing driveway on Landmark Street.

PROJECT TRAFFIC ASSIGNMENT

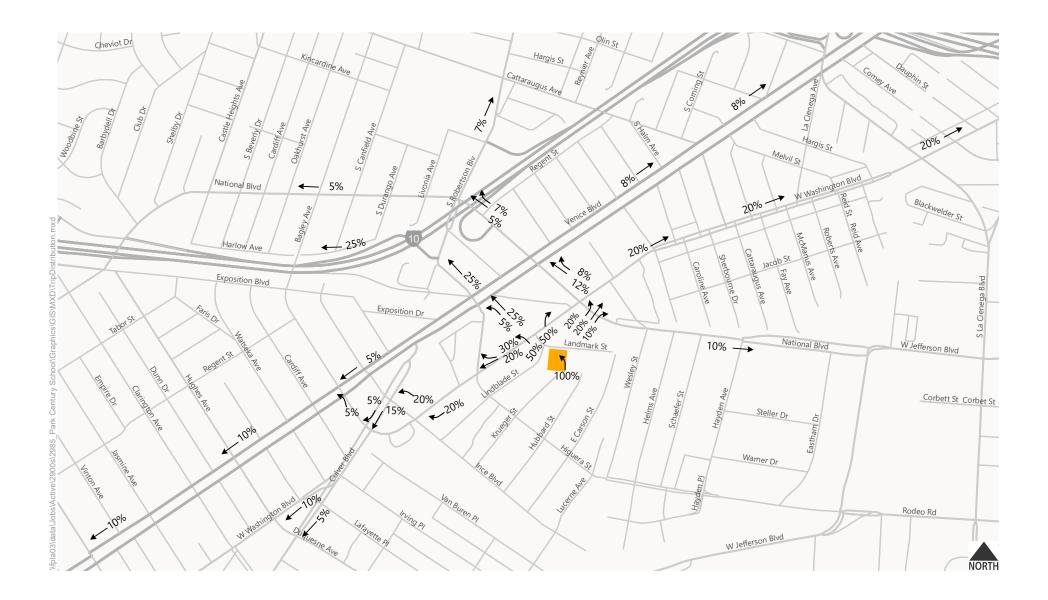
The traffic expected to be generated by the proposed project was assigned to the street network using the distribution pattern shown in Figure 5. Figure 6 illustrates the assignment of this traffic at each of the eight intersections.



Legend





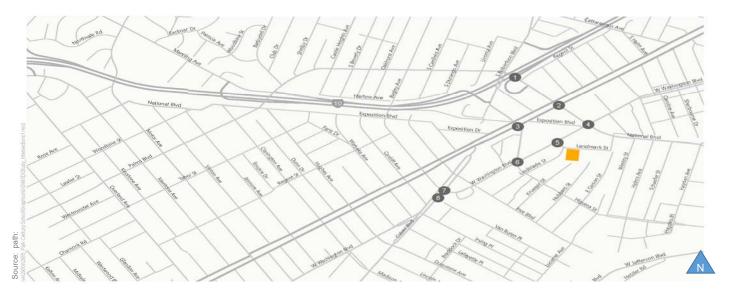


Legend

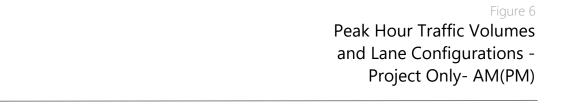




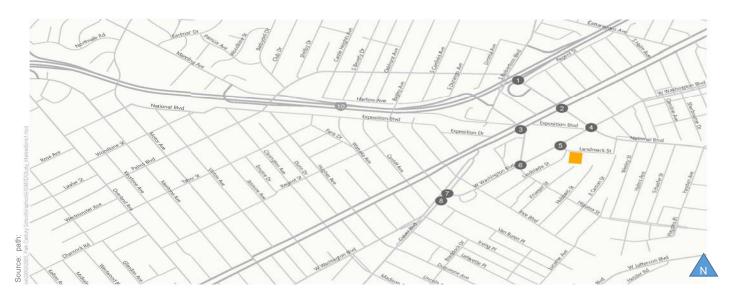
Figure 5



1. Robertson Bl/National Bl	2. National BI/Venice BI	3. Robertson Bl/Venice Bl	4. National Bl/Washington Bl
icbertson Bi	National Bi	obertson B	National Bi
© © ÷ 2 (1) 2 (1) 0 (0)	© ⊕ © (0) ⊙ ⊕ 0 (0) ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	© © © 0 (0) O O O O O (0) Vertice BI	©©©
0 (0) 2 (0) 2 (0) 0 (0) 0 (0) 1 (0) 1 (0) 1 (0) 0 (0)	0 (0) 0 (0) 0 (0) 0 (0) 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 (0) → ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑	6 (2) 6 (2) 3 (1) 6 (2) 0 ○ ○ ○
5. Landmark St/Washington BI	5. Landmark St/Washington BI 6. Robertson Bl/Washington BI		8. Main St/Culver Bl
₩ashington BI Washington BI		(i) (ii) (iii) (ii	(0) (1) E 2 (1) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0
18 (2) 16 (6) 0 17 (16 (6) 0) 17 (17 (17 (17 (17 (17 (17 (17 (17 (17	0 (0) 8 (2) 0 (0) 0 (0)	0 (0) 1 (1) (2) (3) (5) (6) (6) (8) (2) 7	0 (0) 1 5 (1) 1 0 0 0 0







1. Robertson Bl/National Bl	2. National Bl/Venice Bl	3. Robertson BI/Venice BI	4. National Bl/Washington Bl		
Medional Bi [0] [1] [0] [0] [0] [0] [0] [0]	Venice BI Venice BI Veni	Venice BI Venice BI Veni	Washington BJ [3] → [0] [3] → [0] [3] → [0] [3] → [0]		
5. Landmark St/Washington BI	6. Robertson BI/Washington BI	7. Washington Bl/Culver Bl	8. Main St/Culver Bl		
S. Eartonian St. Vashington Bl S. Tobeltson		Culver B1 [0]	8. Main St/Culver BI [1] [2] [0] [0] [3]		







EXISTING PLUS PROJECT TRAFFIC CONDITIONS

The estimated Project traffic was added to the existing traffic volumes to estimate Existing plus Project traffic volumes. Figure 7 shows turning movement traffic volumes for the Existing plus Project scenario.

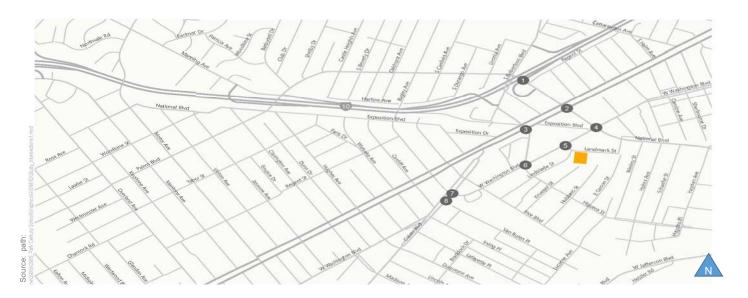
FUTURE BASE TRAFFIC CONDITIONS

In order to evaluate the potential impact of the proposed project on the local street system, it was necessary to develop estimates of future traffic conditions both with and without the project. Future traffic volumes without the project are first estimated, representing the future base conditions. The traffic generated by the proposed project is then estimated and separately assigned to the surrounding street system. The sum of the future base and project-generated traffic represents future plus project traffic conditions.

The future base traffic projections reflect growth in traffic from two primary sources: background or ambient growth in the existing traffic volumes to reflect the effects of overall regional growth both in and outside of the study area, and traffic generated by specific projects in, or in the vicinity of, the study area. These factors are described below.

AREAWIDE TRAFFIC GROWTH

Culver City Engineering Division staff indicates that traffic volumes in the vicinity of the study area have increased at a rate of about 1.0% per year. Future increases in the background traffic volumes due to regional growth and development are expected to continue at this rate, at least through the year 2019. With the assumed completion date of 2019, the existing baseline 2018 traffic volumes were adjusted upward by a factor of 1.0% for one year to reflect area wide regional growth up to Year 2019.



1. Robertson Bl/National	Bl 2. Nationa	I BI/Venice BI	3. Robertson	BI/Venice BI	4. National BI/Washington BI		
475 (2 475 (2 435 (2 435 (2 435 (2) 435 (2) 435 (2)	264) 040	54 (66)		(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0		277 (125) 1,148 (541) 242 (160)	
245 (126) 510 (916) 237 (90) 245 (32) 25 (32) 26 (32) 27 (32) 27 (32) 28 (32)	174 (222) 1,391 (1,533) 327 (217)	281 (236) 577 (542) 41 (118)	369 (285) 1,602 (1,655) 89 (86)	141 (80) 445 (350) 43 (152)	73 (71) 626 (1,028) 200 (263)	167 (186) 668 (679) 44 (170)	
5. Landmark St/Washingto	on Bl 6. Robertson	BI/Washington BI	7. Washingto	n Bl/Culver Bl	8. Main St/Culver Bl		
# 1,316	(6 (681) (70) (95) (95) (95) (95) (95) (95) (95) (95	250 (152) 1,098 (647) 77 (74) 1,098 (647) 1,098 (647) 1,098 (647) 1,098 (647)	Cultver BI 24 (15) 732 (871) 763 (1,110)	1.204 (731) 107 (22) 107 (22) 107 (23) 107 (23) 107 (24)	Cultver BI 210 (111) 210 (55) 36 (57) 1,435 (1,761)	102 (72) 1,327 (983) 1 (5) (5) (6) (3) (6) (7) (7) (7) (83)	



and Lane Configurations - Existing Plus Project Volumes- AM/PM





1. Robertson Bl/National Bl	2. National BI/Venice BI	3. Robertson Bl/Venice Bl	4. National Bl/Washington Bl				
oberteen Bl	National B	Obertson B	National Bi				
[276] [290] [99]	[64] [70] Venice BI	© © 7 € [184] ← [1,332] Vertice BI	[131] [1558] [170]				
[161] 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	[116]	[324]	[55] → 「↑↑↑↑ [954] → □ □ □ □ □ □ [274] ← □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □				
5. Landmark St/Washington BI	6. Robertson Bl/Washington Bl	7. Washington Bl/Culver Bl	8. Main St/Culver Bl				
₩ashington BI [1,133] → [76] [1,133] → [8] [76]	(159) (158) (159) (158	[7] [236] [53] [53] [53] [1,079]	8. Main St/Culver BI [47]				



Peak Hour Traffic Volumes and Lane Configurations -Existing Plus Project Volumes- MD





CUMULATIVE PROJECT TRAFFIC GENERATION

The second major source of traffic growth in the study area is from specific cumulative development projects, also called related projects, expected to be built in the vicinity of the proposed project site prior to the proposed build-out. Data describing cumulative projects in the area was developed based on information obtained from Culver City, City of Los Angeles, and Los Angeles County. A total of 57 cumulative projects were identified in the study area and are estimated to generate 3,945 trips during the morning peak hour and 5,396 trips during the evening peak hour, as summarized in Table 4. Trip generation estimates for each of the cumulative projects were obtained from Culver City and the Los Angeles Department of Transportation, or developed according to ITE (9th Edition) rates. As data for related project trip generation was not available for projects within the City of Los Angeles for the midday period, afternoon peak hour trips were used during the midday period for all related projects to present a more conservative trip generation. Figure 8 displays the location of the related project.

CUMULATIVE PROJECT TRIP DISTRIBUTION AND TRAFFIC ASSIGNMENT

The geographic distribution of the traffic generated by the cumulative projects is dependent on several factors. These factors include the type and density of the proposed land uses, the geographic distribution of population from which the employees and potential patrons of the proposed developments are drawn, and the location of the employment and commercial centers to which residents of residential projects would be drawn, and the location of the projects in relation to the surrounding street system. When trip distribution was not available for a cumulative project, it was estimated based on the factors described above.

The trip generation estimates were assigned to the local street system using the trip distribution pattern described above. Figure 9 shows the traffic generated from the cumulative projects at the study intersections. These volumes were then added to the existing baseline traffic volumes after the adjustment for area-wide growth to create the Future Base condition, as illustrated in Figure 10. These volumes represent future conditions without the proposed project.

FUTURE PLUS PROJECT TRAFFIC VOLUMES

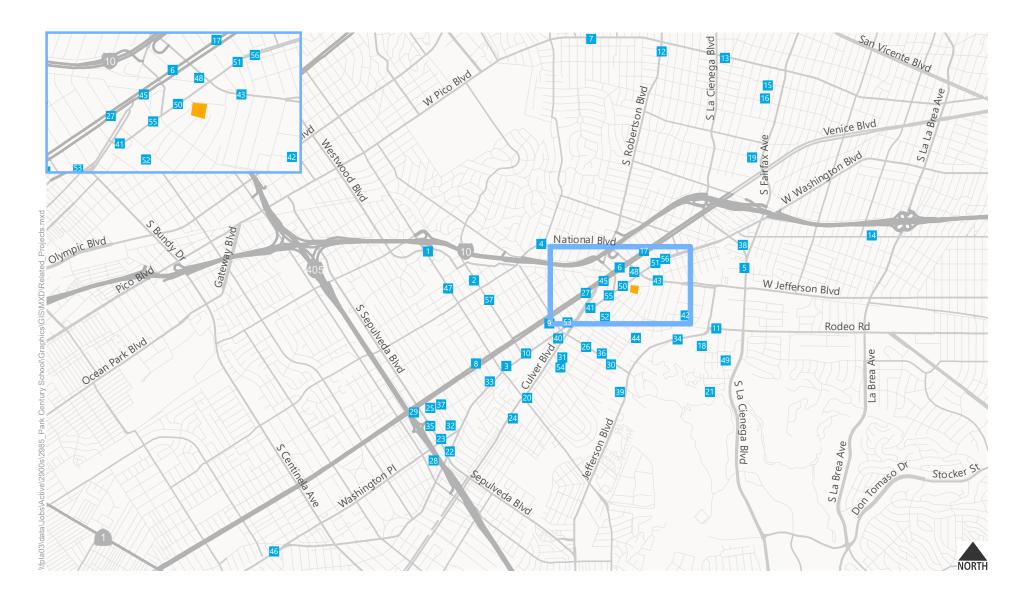
The project-generated traffic volumes from Figure 6 were added to the future base traffic volumes presented in Figure 10 to develop Future plus Project peak hour traffic volumes illustrated in Figure 11.

TABLE 4 PARK CENTURY SCHOOL PROJECT

PARK CENTURY SCHOOL PROJECT RELATED PROJECTS Estimated Trip Generation																
No.	Project Location	City	Land Use					AM	Peak Hour	Est Trips	imated Tri	p Generation Peak Hour	rips PM Peak Hour Trips			
				ITE Land Use Code			Daily Trips	In	Out	Total	In	Out	Total	In	Out	Total
1	10612 W National Blvd	City of Los Angeles [a]	Coffeeshop		1.726	ksf	636	42	42	84	15	16	31	15	16	31
2	3417 S Motor Ave	City of Los Angeles [a]	Retail		2	ksf	0	8	34	42	30	20	50	30	20	50
	3417 3 WOLDI AVE	City of Los Aligeles [a]	Apartments			Units			34	42	30	20	30	30	20	30
			Apartments Office		126	Units ksf	-									
3	10601 Washington Blvd	City of Los Angeles [a]	Retail		9	ksf	2,343	64	84	148	123	91	214	123	91	214
3	10001 Washington biva	City of Los Aligeles (a)	Other Other		4.5	ksf	2,343	04	04	140	123	91	214	123	91	214
			Office		4.5 10.1		-									
4	9815 W National Blvd	City of Los Angeles [a]	Gas Station			fueling positions	977	30	31	61	52	53	105	52	53	105
5	3221 S La Cienega Blvd	City of Los Angeles [a]	Mixed-Use				10,136	319	418	737	467	382	849	467	382	849
6	8900 W Venice Blvd	City of Los Angeles [a]	Mixed-Use Apartments		64	Units	4,124	173	83	256	127	174	301	127	174	301
7	9300 W Pico Blvd	City of Los Angeles [a]	Other		99.680	ksf	505	0	0	32	0	0	49	0	0	49
,	9300 W PICO BIVO	City of Los Arigeles (a)	Other		8.269	ksf	505	U	U	32	U	U	49	U	0	49
8	10801 W Venice Blvd	City of Los Angeles [a]	Retail Mixed-Use		1.637	ksf Other	430	-5	25	20	41	18	59	41	18	59
9	3822 S Dunn Dr	City of Los Angeles [a]	Apartments		86	Units	543	9	33	42	32	18	50	32	18	50
10	10375 W Washington Blvd	City of Los Angeles [a]	Mixed-Use Office		70	ksf	579	-3	35	32	31	11	42	31	11	42
11 12	5950 W Jefferson Blvd 1434 W Robertson Blvd	City of Los Angeles [a] City of Los Angeles [a]	Hotel		,,,	Rooms	716 530	65 30	13 17	78 47	23 17	58 16	81 33	23 17	58 16	81 33
13	6132 W Pico Blvd	City of Los Angeles [a]	Retail			ksf	807	5	34	39	47	30	77	47	30	77
			Apartments Apartments		100	Units Units										
14	5181 W Adams Blvd	City of Los Angeles [a]	Retail		33.860		3,951	59	62	121	173	172	345	173	172	345
15	1500 S Hi Point St	City of Los Angeles [a]	Apartments			Units	300	5	18	23	18	10	28	18	10	28
16	1556 S Hi Point St	City of Los Angeles [a]	Apartments Retail		45 23.795	Units ksf	300	5	18 47	23	18	10	28	18	10	28
17 18	8900 W National Blvd 3640 S Holdrege Avenue	City of Los Angeles [a] City of Los Angeles [a]	Office		23.795 25.032	ksf	1,589 187	67 0	47 0	114 31	57 0	60 0	117 29	57 0	60 0	117 29
19	5930 W Sawyer St	City of Los Angeles [a]	Apartments		60	Units	584	10	35	45	39	23	62	39	23	62
20	10638 Culver Blvd	City of Culver City [b]	Convenience Store	945	2.676		83	45	48	93	44	43	87	44	43	87
21	5950 Stoneview Dr	City of Culver City [b]	Park Office	412 710	4.000	acres	22	2	3	5	1	1	2	1	1	2
			Restaurant	820		ksf										
22	11198 Washington Place	City of Culver City [b]	Restaurant	932	0.500	ksf	553	26	27	53	26	17	43	26	17	43
23	11197 Washington Place	City of Culver City [b]	Convenience Store	852	2.500	ksf	78	42	44	86	42	40	82	42	40	82
24	10808 Culver Blvd	City of Culver City [b]	Museum	580 151	12.596 -12.596	ksf	-31	2	-11	-9	-1	0	-1	-1	0	-1
25	3837 Bentley Ave	City of Culver City [b]	Armory/mini-warehouse	231	-12.596	Units	12	0	1	1	1	0	1	1	0	1
26	4109-41111 Duquesne Ave	City of Culver City [b]	Apartments	220	2	Units	13	0	1	1	1	0	1	1	0	1
27	9355 Culver Blvd	City of Culver City [b]	Retail	820	2.947		152	2	5	7	7	6	13	7	6	13
			Apartments Apartments	220 220	10	Units Units										
28	4044-4068 Globe Avenue	City of Culver City [b]	Single Family Homes	210	7	homes	133	2	11	13	8	5	13	8	5	13
29	11224 Venice Blvd	City of Culver City [b]	Automated Car Wash [c]	948	0.864	ksf	76	42	2	44	44	43	87	44	43	87
			Convenience Store	852	2.285	ksf										
30 31	4241 Duquesne Ave 4034 La Salle Ave	City of Culver City [b] City of Culver City [b]	Condominium Condominium	231 231	2	Units Units	12 17	0	1	1	1	0	2	1	0	2
32	3961 Tilden Ave	City of Culver City [b]	Condominium	231	2	Units	12	0	1	1	1	0	1	1	0	1
33	10799 Washington Blvd	City of Culver City [b]	Restaurant	932	2.000		254	12	10	22	12	8	20	12	8	20
34	8509 Higuera, 8476 Warner	City of Culver City [b]	School [d]	534		students	162	50	40	90	28	32	60	28	32	60
35 36	3873 Bentley Ave 4180 Duguesne Ave	City of Culver City [b] City of Culver City [b]	Condominium Condominium	231 231	2	Units Units	12 17	0	1	1	1	0	1 2	1 1	0	1 2
37	3832 Bentley Ave	City of Culver City [b]	Condominium	231	3	Units	17	0	1	1	1	1	2	1	1	2
38	3030 La Cienega Blvd	City of Culver City [b]	Retail	820	1.250	ksf	53	1	0	1	2	3	5	2	3	5
39	9919 Jefferson Blvd	City of Culver City [b]	Office	710	62.558	ksf	208	26	4	30	5	24	29	5	24	29
40	10000 Washington Blvd	City of Culver City [b]	Office Retail	710 820	-1.497 12.100	ksf	- 512	7	5	12	21	23	44	21	23	44
41	9300 Culver Blvd	City of Culver City [b]	Retail	820	118.000	ksf	5,039	70	43	113	210	228	438	210	228	438
42	8511 Warner Dr	City of Culver City [b]	Retail/Restaurant	820	51.520	ksf	2,200	31	18	49	92	99	191	92	99	191
43	3434 Wesley St	City of Culver City [b]	Apartments	220	15	Units	147	8	14	22	7	9	16	7	9	16
44	4227 Ince Rlvd	City of Culver City [b]	Office Anartments	1710 220	14.237	ksf Units	33	1	2	3	2	1	3	2	1	3
			Office	710	6	ksf						·		·		
45	3727 Robertson Blvd	City of Culver City [b]	Office	710	-6.8	ksf	-3	0	-3	-3	0	0	0	0	0	0
46	12803 Washington Blvd	City of Culver City	Apartments	220		Units	- 554	8	19	27	28	22	50	28	22	50
46	3355-3361 South Overland Ave	City of Los Angeles [a]	Retail Apartments	820 220	7.206	ksf units	238	3	15	18	14	7	21	14	7	21
	JJJJ JJJJ JJJJI OVEHBIU AVE	City or cos Angeles [a]	Hotel	310	148	Rooms	230	, ,		10	1 24	· · · ·	- 21	24	· · · ·	
47	8824 National Blvd	City of Culver City [b]	Retail	820	57.742	ksf	5,768	195	156	351	235	297	532	235	297	532
		,	Office Apartments	710 220	196.333 200	ksf units	1	l			l	1		1	1	1
			Apartments Apartments	220	200	units	1	1	l		1	-		l	1	1
48	3814 Lenawee Ave	City of Culver City [b]	Assisted Living	254	95	units	- 403	8	91	99	19	12	31	19	12	31
49	8888 Washington Blvd	City of Culver City [b]	Office	710	56.559	ksf	443	27	7	34	15	33	48	15	33	48
			Retail Office	820 1710	5.972 128.000											
50	8777 Washington Blvd	City of Culver City [b]	Retail	820	4.500		617	57	10	67	18	58	76	18	58	76
51	9336 Washington Blvd/Culver Studio	City of Culver City [b]	Active Production Support (Office)	710	206.563	ksf	3.013	259	187	446	69	305	374	69	305	374
31	5555 Washington Divuy Curver Studio	City of culver City [D]	Passive Production Support	150	206.563	ksf	3,013	233	107	440	03	303	3/4	03	303	3/4
			Office Retail	710 820	55.477 12.249		1	l	l		l			1	1	1
52	9735 Washington Blvd	City of Culver City [b]	Retail High-Turnover Restaurant	932		ksf	1,101	26	7	33	47	52	99	47	52	99
		,	Quality Restaurant	931	2.000	ksf	1	l "	1	1	l "	1	1	1	1	1
			Bank and Office	710	-16.2	ksf	1	l			l				ļ	I
53	4051 and 4055 Jackson Ave	City of Culver City [b]	Condominium	231	3 141	units	17	1	0	1	1	1	2	1	1	2
54	3710 and 3750 Robertson Boulevard	City of Culver City [b]	Apartments Office	220 710	141 64 200	units ksf	2,315	56	66	122	107	107	214	107	107	214
34	37 TO BING 37 30 HODELIZORI BORREARIN	city or curver city [D]	Retail	820	30.042		2,313	36	Jo	122	107	107	214	107	107	214
			Apartments	220	199	units	1								1	
55	8700,8710,8740, and 8750 Washington Blvd	City of Culver City [b]	Office	710	17.250		2,607	33	80	113	155	72	227	155	72	227
30	.,,,	,	Restaurant	931	5.000		1	l ~			l	-	1	1		1
56	3568 Motor Ave	City of Los Angeles [a]	Retail Apartments	820 220	17.750 42	units	320	4	16	20	18	11	29	18	11	29

56,416 1,929 1,953 3,945 2,594 2,724 5,396 2,594 2,724 5,396 Total

Note:
ksf - one thousand square feet
[a] Trip generation estimates based on information provided by LADOT.
[b] Project description provided by CTV, or Coulver City, Trip generation estimates based on rates found from Trip Generation, 9th Edition, Institute of Transportation Engineers, 2012.
[c] Self-Service Car Wash (ITE 948) Daily Rate used because no Automated Car Wash Daily Rate is unavailable.
[e] Middle Short Junior High School (ITE 522) used because no Private School Daily Rate is unavailable.
[e] Midday related projects not provided. PM trip generation for midday.



Project Site

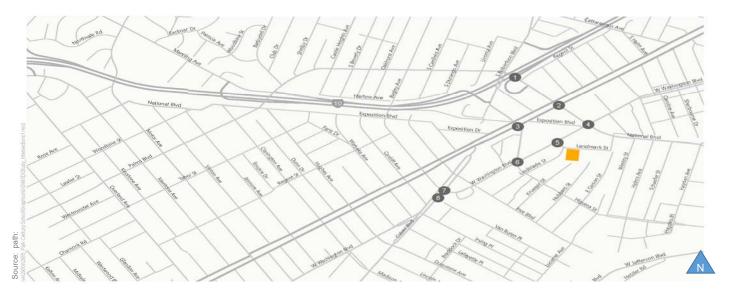


1. Robertson Bl/National Bl	2. National Bl/Venice Bl	3. Robertson Bl/Venice Bl	4. National Bl/Washington Bl		
Preparation Isl (1) (0) (0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	(0) 0 (5) 0 (5) 0 (6) 0 (7) 0	Venice BI Venice BI	(95) 7 1 4 6 (97) 2 (41) 5 6 (71) 5 6 (71) 5 7 (11)		
25 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0	16 (27) 137 (136) 26 (48) 26 (48) 16 (27) 17 (20) 17 (20) 18 (28 (32) 44 (56) 11 (14) (28 (32) (29 (32) (20	33 (60) 3 5 6 6 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
5. Landmark St/Washington Bl	6. Robertson Bl/Washington Bl	7. Washington Bl/Culver Bl	8. Main St/Culver Bl		
Washington BI 172 (239) → ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Washington 81 87 (153) 162 (207) 0 (0) 0 0 0 17 (29) 96 (107) 0 (0) 0 0 0 18 (153) 0 (0) 0 0 0	©: 19 (23) 19 (30) 0 (0)	© (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)		



and Lane Configurations
Related Projects- AM(PM)





1. Robertson Bl/National Bl	2. National BI/Venice BI	3. Robertson Bl/Venice Bl	4. National Bl/Washington Bl		
[19] Automal Bi	Veurice BI Veuri	E	[41] [96] [11] Washington Bi		
[0] → 1 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	[27]	[32]	[102] [77] [60] [50] [77] [77] [77] [77]		
5. Landmark St/Washington BI	6. Robertson Bl/Washington Bl	7. Washington Bl/Culver Bl	8. Main St/Culver Bl		
₩ashington BI [239] → [0] [239] → [0] [239] → [0] [239] → [0] [239] → [0]	Washington BI [153] [29] [107] [0] [153] [207] [0] [0] [153] [0] [153] [0] [153] [0] [153] [0] [153] [0]	Culver B1 [23]	Culver BI [0] [145] [0] [0] [199]		

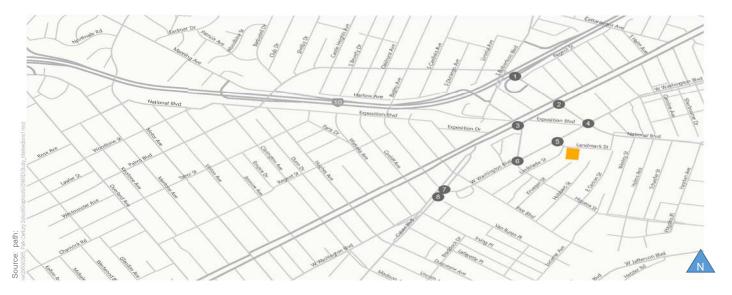




1. Robertson E	BI/National BI	2. National I	BI/Venice BI	3. Robertson	BI/Venice BI	4. National Bl/Washington Bl		
247 (127)		Ventice BI 192 (251) 11,542 (1,684)		Meurice BI A00 (320) 1,662 (1,728) 347 (276) 1,404 (1,689) 84 (27) 1,404 (1,689) 84 (27) 1,405 (1,728) 1,605 (1,728) 99 (101)		(6) (172) (167) (1		
5. Landmark St/	Washington BI	6. Robertson Bl/Washington Bl		7. Washingto	n Bl/Culver Bl	8. Main St/Culver Bl		
5. Landmark St/Washington BI 1,446 (815) 108 (68) Washington BI 978 (1,441) 130 (52) 17 (8) 17 (9) 18 (1,441) 19 (1,4		Mashindrou Bi 162 (311) 885 (1194) 155 (16) 886 (83)	254 (180) 1,199 (758) 78 (75) 1,199 (758) 76 (18) 1,199 (758) 76 (18) 1,199 (758) 1,199	GS (SE) US (SE	3 (24) 243 (342) 31 (31) 108 (58) 108 (58) 109 (58)	212 (112) 45 0 (0) (0) (0) (1,563 (1,877) (1,563 (1,877) (1,563 (1,877) (1,563	101 (72) 1,407 (1,135) 1 (5) 1 (5) 0 0 0 0	







1. Robertson Bl/National Bl	2. National Bl/Venice Bl	3. Robertson BI/Venice BI	4. National Bl/Washington Bl		
[296] [8.8] [8.8] [292] [100]	[123] [123] [123] [135] [152]	[285] [986] [1,403] [93]	[173] [1648] [173] [173] [173] [183]		
[118] 7 7 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Verlice BI [144]	Verice BI [359] ☐ [1,520] ☐ [6,6,6,6] ☐ [92] ☐ [6,6,6,6] ☐ [7]	(154) → (183) (184) → (183) (184) → (183) (184) → (18		
5. Landmark St/Washington BI	6. Robertson Bl/Washington Bl	7. Washington Bl/Culver Bl	8. Main St/Culver Bl		
€ [809]	© [7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	[7] [7] [269] [54]	© [46]		
[1,383] — [56]	[245] [1,182] [65] [25] [245] [245] [245] [245] [245] [245] [245] [245]	[41] — TIP [624] — EEE	[128] * = 55.5		

Figure 10

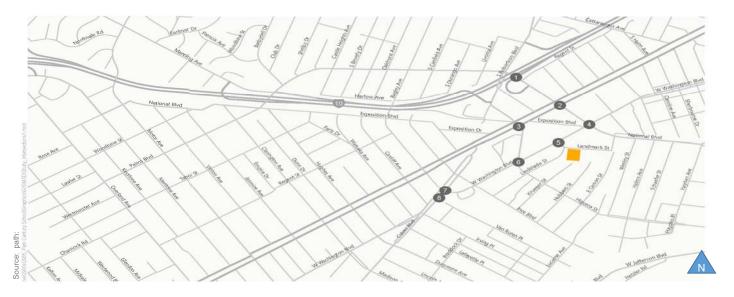
Peak Hour Traffic Volumes and Lane Configurations Future (2019) Volumes- MD





1. Robertson Bl/National Bl		2. National I	BI/Venice BI	3. Robertson	BI/Venice BI	4. National BI/	Washington BI
132 (161) 132 (161) 132 (161) 132 (161) 133 (161) 1439 (267) 162 (95)		(116) (125) (125) (125) (125) (125) (125) (125) (125) (125) (125) (125) (125)		Venice BI Venice BI		(18) 40 (167) (172) (167) (172	
247 (127) 515 (925) 239 (91)	247 (127)		311 (281) 742 (650) 742 (191)	400 (320) 1,662 (1,728) 101 (101)	150 (98) J 539 (514) J 84 (222) J	145 (174) 	213 (219) 736 (760) 50 (184)
5. Landmark St/V	Washington BI	6. Robertson Bl/Washington Bl		7. Washingto	n Bl/Culver Bl	8. Main St/Culver Bl	
5. Landmark St/Washington BI 1,446 (815) 1,20 (71) Washington BI 978 (1,441) 148 (57) 158 88 88 88		Masyludon B1 Masyludon B1 Masyludon B2 Masyludon B3 Masyludon B3 Masyludon B4 Ma	264 (183) 1,205 (760) 78 (75) 1,662) 28 (183) 1,005 (760) 1,005 (183) 1,005 (1	GS (SC) (SC) (SC) (SC) (SC) (SC) (SC) (SC	3 (24) 243 (342) 31 (31) 24 (68) 82 10 (68)	212 (112) — 154 (223) 60 (0) 6	103 (73) 1,412 (1,137) 1 (5) 1 (5)





1. Robertson Bl/National Bl	2. National Bl/Venice Bl	3. Robertson BI/Venice BI	4. National BI/Washington BI		
oberteon Bl	Nation at B	O entison Bi	Nation al El		
	[123] [1315] [154] Venice BI	© 5 € € € [285] Vertice BI	[173] [634] [183] Washington Bl		
[118] 4 2 5 4 5 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	TATO		[157] 7 17 17 17 17 17 17 17		
5. Landmark St/Washington BI	6. Robertson Bl/Washington Bl	7. Washington Bl/Culver Bl	8. Main St/Culver Bl		
₩ashington BI [1,383] → [79] [77] → [809] [79] [1,383] → [7] [7] [809] [79]	Washington BI [245] [1,188] [65] [25] [1,188] [25] [245] [1,188] [25] [25] [25] [26] [26] [27] [28] [28] [28] [28]	Culver B1 [41]	Culver Bl [128] [128] [1,615] [15] [15] [15] [15] [15] [15] [15] [15] [15] [15] [15] [15] [15] [15] [15] [15] [15] [15]		







4. TRAFFIC IMPACT ANALYSIS

This section presents an analysis of the projected future volumes to determine the potential traffic impacts of the proposed project on the operating conditions of the surrounding street system. The traffic impact analysis compares the projected LOS at each study intersection under future plus project conditions to the future base conditions to estimate the incremental increase in the V/C ratio caused by the proposed project. This provides the information needed to assess the potential impact of the project using significance criteria established by Culver City and LADOT.

SIGNIFICANT TRAFFIC IMPACT CRITERIA

The significant impact criteria for the City of Culver City and the City of Los Angeles are described below. Of eight intersections analyzed, five are analyzed exclusively according to Culver City's impact criteria, and three are analyzed exclusively according to the City of Los Angeles' impact criteria. The way are intersections corresponds to their location either within Culver City, City of Los Angeles, or both.

CITY OF CULVER CITY

The City of Culver City has established threshold criteria used to determine if a project has a significant traffic impact at an intersection under the City of Culver City jurisdiction. According to the City's criteria, a project impact would be considered significant if the following conditions are met:

LOS	Final V/C Ratio	Project Related Increase in V/C
С	> 0.701 - 0.800	equal to or greater than 0.050
D	> 0.801 - 0.900	equal to or greater than 0.040
E or F	> 0.901	equal to or greater than 0.020

Using these criteria, for example, a project would not have a significant impact at an intersection if it is operating at LOS D after the addition of project traffic and the incremental change in the V/C ratio is less than 0.040. If the intersection is operating at LOS E or F after the addition of project traffic and the incremental change in the V/C ratio is 0.020 or greater, however, the project would be considered to have a significant impact at this location.



CITY OF LOS ANGELES

LADOT has established threshold criteria to determine whether a project has a significant traffic impact at a specific intersection within the City of Los Angeles jurisdiction. Under the LADOT standard, a project impact would be considered significant if the following conditions are met:

LOS	Final V/C Ratio	Project Related Increase in V/C
С	>0.701 - 0.800	equal to or greater than 0.040
D	> 0.801 - 0.900	equal to or greater than 0.020
E or F	> 0.901	equal to or greater than 0.010

EXISTING PLUS PROJECT IMPACT ANALYSIS

EXISTING PLUS PROJECT TRAFFIC LEVEL OF SERVICE

Existing plus Project traffic volumes, presented in Figure 7 were analyzed to determine the projected V/C ratios and LOS for each intersection. Table 5 summarizes the Existing plus Project LOS. None of the study intersections are estimated to operate at LOS E or F during the Existing plus Project scenario.

EXISTING PLUS PROJECT INTERSECTION IMPACTS

As shown in Table 5, after applying the aforementioned City of Culver City and City of Los Angeles significant impact criteria, there would be no significant impacts at any of the eight study intersections.

				TABLE	E 5						
			EXIS	STING PLUS PROJECT LEV	EL OF SERVI	CE ANALYSIS					
ID	N/S Street Name	E/W Street Name	Jurisdiction	Analysis Methodology	Analyzed	Existing		Existing + Proj	ect with TDM	Project Increase	Significant
עו	IN/S Street IName	E/W Street Name	Jurisaiction	Analysis Methodology	Period	V/C or Delay	LOS	V/C or Delay	LOS	In V/C	Impact?
1	Robertson Boulevard	National Boulevard	City of Los Angeles	CMA	AM	0.874	D	0.877	D	0.003	NO
					PM	0.786	C	0.786	C	0.000	NO
					MD	0.729	C	0.731	C	0.002	NO
2	National Boulevard	Venice Boulevard	City of Los Angeles	CMA	AM	0.677	В	0.680	В	0.003	NO
					PM	0.758	C	0.758	C	0.000	NO
					MD	0.692	В	0.695	В	0.003	NO
3	Robertson Boulevard	Venice Boulevard	City of Los Angeles	CMA	AM	0.776	O	0.785	C	0.009	NO
i					PM	0.759	C	0.760	C	0.001	NO
					MD	0.644	В	0.645	В	0.001	NO
4	National Boulevard	Washington Boulevard	City of Culver City	ICU	AM	0.668	В	0.673	В	0.005	NO
					PM	0.775	C	0.776	C	0.001	NO
					MD	0.741	C	0.744	C	0.003	NO
5	Landmark Street	Washington Boulevard	City of Culver City	ICU	AM	0.489	Α	0.499	Α	0.010	NO
ı					PM	0.510	Α	0.517	Α	0.007	NO
					MD	0.516	Α	0.531	Α	0.015	NO
6	Robertson Boulevard	Washington Boulevard	City of Culver City	ICU	AM	0.802	D	0.814	D	0.012	NO
l					PM	0.640	В	0.642	В	0.002	NO
					MD	0.582	Α	0.588	Α	0.006	NO
7	Washington Boulevard	Culver Boulevard	City of Culver City	ICU	AM	0.791	C	0.793	C	0.002	NO
					PM	0.637	В	0.638	В	0.001	NO
					MD	0.540	Α	0.542	Α	0.002	NO
8	Main Street	Culver Boulevard	City of Culver City	ICU	AM	0.664	В	0.669	В	0.005	NO
					PM	0.722	C	0.722	C	0.000	NO
1					MD	0.636	В	0.638	В	0.002	NO



FUTURE PLUS PROJECT IMPACT ANALYSIS

FUTURE BASE TRAFFIC CONDITIONS

The 2019 Future Base peak hour traffic volumes were analyzed to determine the projected V/C ratio and LOS for each of the analyzed intersections. Table 6 summarizes the future levels of service. Poor operating conditions (LOS E or F) are projected at three of the eight study intersections during at least one of the analyzed peak hours, including:

- 1. Robertson Boulevard and National Boulevard (City of Los Angeles, AM peak hour)
- 3. Robertson Boulevard and Venice Boulevard (City of Los Angeles, AM peak hour)
- 6. Robertson Boulevard and Washington Boulevard (City of Culver City, AM peak hour)

FUTURE PLUS PROJECT TRAFFIC CONDITIONS

The results of the Future plus Project analysis, presented in Table 7, indicate that poor operating conditions (LOS E or F) are projected at three of the eight study intersections during at least one of the analyzed peak hours, including:

- 1. Robertson Boulevard and National Boulevard (City of Los Angeles, AM peak hour)
- 3. Robertson Boulevard and Venice Boulevard (City of Los Angeles, AM peak hour)
- 6. Robertson Boulevard and Washington Boulevard (City of Culver City, AM peak hour)

FUTURE PLUS PROJECT INTERSECTION IMPACTS

As shown in Table 7, after applying the aforementioned City of Culver City and City of Los Angeles significant impact criteria, the proposed project does not significantly impacts traffic at any of the study intersections under Future plus Project conditions.

TABLE 6 FUTURE BASE LEVEL OF SERVICE ANALYSIS

ID	N/S Street Name	E/W Street Name	Jurisdiction	Analysis	Analyzed	Cumula	tive
טו	N/3 Street Name	E/W Street Name	Junsaiction	Methodology	Period	V/C or Delay	LOS
1	Robertson Boulevard	National Boulevard	City of Los Angeles	CMA	AM	0.936	Е
					PM	0.858	D
					MD	0.800	D
2	National Boulevard	Venice Boulevard	City of Los Angeles	CMA	AM	0.781	C
					PM	0.888	D
					MD	0.832	D
3	Robertson Boulevard	Venice Boulevard	City of Los Angeles	CMA	AM	0.935	E
					PM	0.873	D
					MD	0.799	С
4	National Boulevard	Washington Boulevard	City of Culver City	ICU	AM	0.768	C
					PM	0.862	D
					MD	0.827	D
5	Landmark Street	Washington Boulevard	City of Culver City	ICU	AM	0.530	Α
					PM	0.591	Α
					MD	0.595	Α
6	Robertson Boulevard	Washington Boulevard	City of Culver City	ICU	AM	0.911	E
					PM	0.776	C
					MD	0.667	В
7	Washington Boulevard	Culver Boulevard	City of Culver City	ICU	AM	0.822	D
					PM	0.693	В
					MD	0.595	Α
8	Main Street	Culver Boulevard	City of Culver City	ICU	AM	0.694	В
					PM	0.760	С
					MD	0.673	В

TABLE 7
FUTURE PLUS PROJECT LEVEL OF SERVICE ANALYSIS

ID	N/S Street Name	E/W Street Name	Jurisdiction	Analysis	Analyzed	Futur	e	Future + Proje	ect with TDM	Project Increase	Significant
ID	N/S Street Name	E/W Street Name	Jurisdiction	Methodology	Period	V/C or Delay	LOS	V/C or Delay	LOS	In V/C	Impact?
1	Robertson Boulevard	National Boulevard	City of Los Angeles	CMA	AM	0.936	E	0.939	E	0.003	NO
					PM	0.858	D	0.858	D	0.000	NO
					MD	0.800	D	0.802	D	0.002	NO
2	National Boulevard	Venice Boulevard	City of Los Angeles	CMA	AM	0.781	С	0.784	C	0.003	NO
					PM	0.888	D	0.889	D	0.001	NO
					MD	0.832	D	0.835	D	0.003	NO
3	Robertson Boulevard	Venice Boulevard	City of Los Angeles	CMA	AM	0.935	E	0.944	E	0.009	NO
					PM	0.873	D	0.874	D	0.001	NO
					MD	0.799	С	0.800	C	0.001	NO
4	National Boulevard	Washington Boulevard	City of Culver City	ICU	AM	0.768	С	0.775	С	0.007	NO
					PM	0.862	D	0.862	D	0.000	NO
					MD	0.827	D	0.831	D	0.004	NO
5	Landmark Street	Washington Boulevard	City of Culver City	ICU	AM	0.530	Α	0.540	Α	0.010	NO
					PM	0.591	Α	0.595	Α	0.004	NO
					MD	0.595	Α	0.609	В	0.014	NO
6	Robertson Boulevard	Washington Boulevard	City of Culver City	ICU	AM	0.911	E	0.923	E	0.012	NO
					PM	0.776	C	0.779	C	0.003	NO
					MD	0.667	В	0.674	В	0.007	NO
7	Washington Boulevard	Culver Boulevard	City of Culver City	ICU	AM	0.822	D	0.824	D	0.002	NO
					PM	0.693	В	0.694	В	0.001	NO
					MD	0.595	Α	0.599	Α	0.004	NO
8	Main Street	Culver Boulevard	City of Culver City	ICU	AM	0.694	В	0.698	В	0.004	NO
					PM	0.76	C	0.760	C	0.000	NO
					MD	0.673	В	0.675	В	0.002	NO



TRAFFIC MANAGEMENT PROGRAM

During the MOU process, Culver City staff directed the project to include a Traffic Management Program (TMP), including a discussion of staggered pick-up and drop-off times and pick-up/drop-off procedures. The TMP is meant to address pick-up/drop-off during construction and after construction is complete. Each plan is discussed below.

CONSTRUCTION TRAFFIC MANAGEMENT PROGRAM

During construction, the school's parking lot will be temporarily closed both as part of the construction itself and in order to stage construction equipment. To accommodate this change, vehicles dropping off or picking up students would drive to the end of Landmark Street, and then turn around at the end of the street, and drop-off or pick-up students on the north side of the street across from the school. During construction, parking would be temporarily prohibited at the four metered-parking spaces on the north side of Landmark Street to allow vehicles to pick-up and drop-off students without block traffic. Parking would need to be prohibited between 7:00 AM (45 minutes before school starts) and 8:00 AM in the morning, and 2:30 PM (30 minutes before schools ends) and 3:30 PM in the afternoon. Students would cross Landmark Street with the assistance of a crossing guard to enter/exit vehicles. The school agrees to the training and placing a crossing guard temporarily during construction.

The parking meter zone could temporarily be restricted to pickups and drop-offs during their relevant hours, and metered parking outside school pick-up/drop-off times could continue. Figure 12 indicates the location of the four metered parking spaces that would be required for the temporary pick-up/drop-off space. It is assumed that students, with the assistance of a crossing guard, would cross the street to enter/exit their vehicles. By having pick-ups and drop-offs occur on the north side of the street when vehicles are traveling west on Landmark Street, any queuing that would result from pick-ups and drop-offs would not affect operations at the intersection of Washington Boulevard & Landmark Street. Based on conversations with City staff, the cost of temporarily restricting parking on Landmark Street for the three months of construction taking place during the school year is \$1,679.39. This includes signage installation, permit costs, and lost revenue from the meter. The school agrees to cover this cost. The school also agrees to contact affected businesses at The Platform to inform them of the temporary use of the parking meters for pick up and drop off, and ask these businesses to contact the City or send the City their input.

POST-CONSTRUCTION TRAFFIC MANAGEMENT PROGRAM

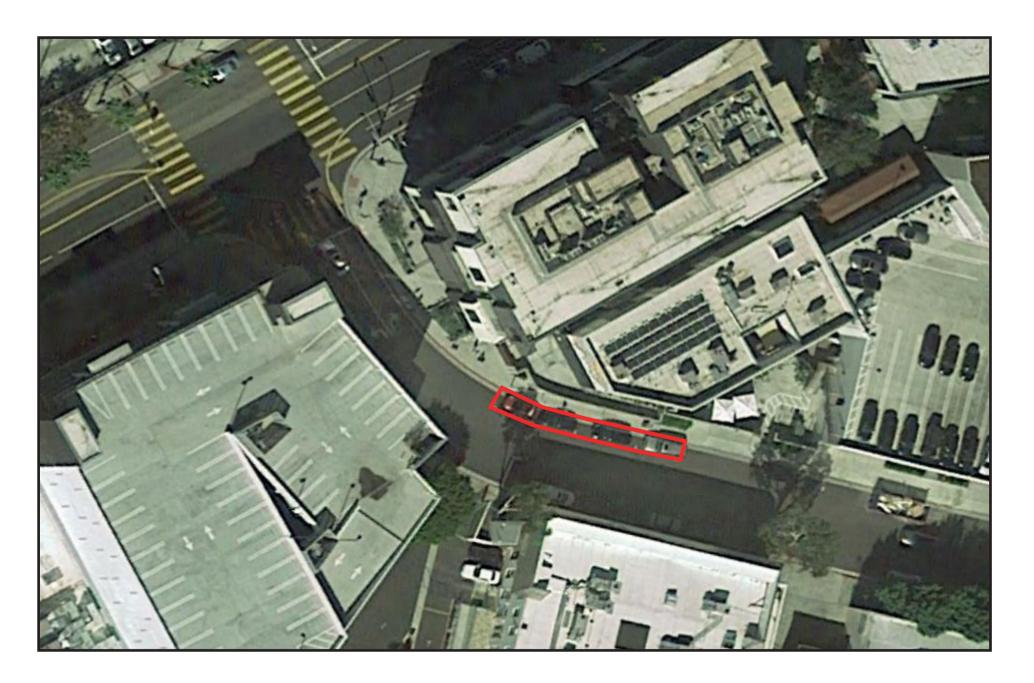
City staff had concerns about the potential for queuing from early arrivals before the gates are open before and after school. According to conversations with school staff, the parking lot gate currently opens at



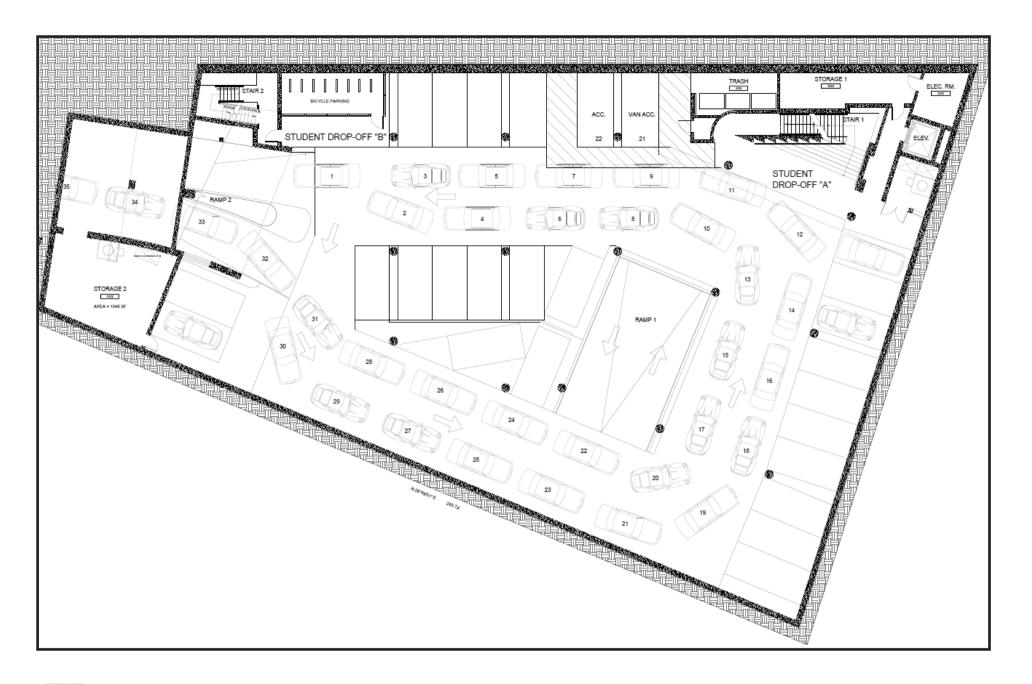
7:00 AM, 45 minutes before school starts in the morning. The gate closes at 8:30 AM and then reopens at 2:30 PM, 30 minutes before schools ends. Field observations made in fall 2017 did not reveal queuing before the gate opens to be a problem for traffic operations. Staggered drop-offs would not be needed once the gate opens, as the new parking lot will have storage space for up to 33 vehicles, which is far greater than the number of vehicles observed at the school at any one time.

Figure 13 shows the storage space in the parking area for the new design. The school currently allows vehicles to queue inside the parking lot before pick-up and drop-off times, and this practice will continue once the construction is complete.

City staff expressed concerned about potential effects to site access due to dumpsters being temporarily placed on the street for trash and recycling pick-up. While the study does not anticipate this temporary condition effecting traffic operations on the street, as there is minimal queuing on the street from the school and observed queuing was very brief, the school will monitor this condition and work with the City to implement staggered pick-up and drop-off times if needed.











SIMULATION ANALYSIS

As part of the MOU process, the City requested the study include queuing analysis related to pick-up and drop-off at the school during all three time periods. The SimTraffic software was used to analyze conditions near the school. The network included Washington Boulevard from National Boulevard to Robertson Boulevard, and all of Landmark Street, including driveways for The Platform and the school. Results from Sim Traffic were developed using the HCM methodology to calculate queues related to the pick-up/drop-off traffic at the school driveway and at Washington Boulevard & Landmark Street. Queuing was analyzed during three scenarios:

- Existing
- Future with Construction
- Future plus Project (Post Construction)

Existing Conditions and Construction Conditions both used existing volumes, as the school expansion will not be complete. Vehicle volumes were balanced between signalized intersections using existing counts. Volumes were also balanced between the existing counts at Washington Boulevard & Landmark Street and the school driveway (where counts were taken). Other driveways on Landmark Street where counts were not taken were used to balance vehicle volumes.

Table 8 shows the maximum observed queue length for the following locations:

- Westbound left-turning vehicles from Washington Boulevard to Landmark Street
- Northbound vehicles from Landmark Street turning onto Landmark Street
- Vehicles entering and existing the Park Century School driveway
- Vehicles dropping off or picking up students within the Park Century Parking Lot during the existing and Future plus Project scenarios
- Vehicles dropping off or picking up students within the Park Century Parking Lot during the Future with Construction Scenario

Unlike, the 95th percentile queue length, which is a mathematically calculated number based on the average queue, the maximum queue is based on observed queue lengths, and represents the greatest observed queue over 10 simulation runs. As shown in Table 8, westbound left-turn queues exceed the available storage length during all three scenarios. The greatest queuing is reported in the AM peak hour, and is not exacerbated by the school expansion. Despite more vehicles making the westbound left turn in the Future plus Project scenario, queuing is similar in the Existing and Future plus Project at this movement due to



more frequent gaps for westbound left-turning vehicles because increased queuing for eastbound vehicles spills back from the intersection of Washington Boulevard and National Boulevard. This queue spillback presents opportunities where eastbound vehicles must wait at Landmark Street, providing gaps for westbound left-turning vehicles to turn. In order to accommodate the existing and future queuing at the westbound left-turn lane, the City has requested that the project restripe this left-turn lane to extend the turn pocket to 275 feet. Park Century School will coordinate with the City to restripe the left-turn lane. Figure 14 displays a conceptual restriping of this movement.

During both the Existing and Future plus Project scenarios, queuing at the pick-up/drop-off area is within the storage provided by the parking lot. Queuing for vehicles entering the school is never more than 75 feet, and does not affect traffic operations at the intersection of Washington Boulevard & Landmark Street.

In the Construction Conditions scenario, it is assumed vehicles dropping off or picking up student would follow the TMP described above. Queuing during this time period is not expected to exceed 100 feet based on the simulation results, and would occur along the curb space without blocking traffic. The 100 feet required for the temporary pick-up/drop-off would be accommodated by the removal of the four metered spaces and additional buffer on either side of the metered parking spaces. No driveway access would be affected for any of the surrounding buildings. Detailed results are shown in Appendix D.

TABLE 8 SIMULATION QUEUE RESULTS

			Existing Scenario Midday (3-			Construction Scenario Midday (3-			Future + Project Scenario Midday (3-		
Intersection	Movement	Storage	AM	4 PM)	PM	AM	4 PM)	PM	AM	4 PM)	PM
5. Washington Bl / Landmark St	Northbound Left	50	100	100	100	75	100	100	100	100	100
	Northbound Right	50	100	100	100	75	100	100	100	100	100
	Westbound Left	100	275	175	225	275	250	225	275	250	250
10. Park Century School / Landmark St	Inbound Right	100	75	50	25	-	-	-	75	75	50
	Outbound Left	300*	50	75	50	-	-	-	50	75	50
Pickup/Dropoff Queue	Pickup/Dropoff Queue	300*	200	200	125	-	-	-	225	200	175
Temporary Pickup/Dropoff Queue	Pickup/Dropoff Queue	100^	-	-	-	100	75	75	-	-	-

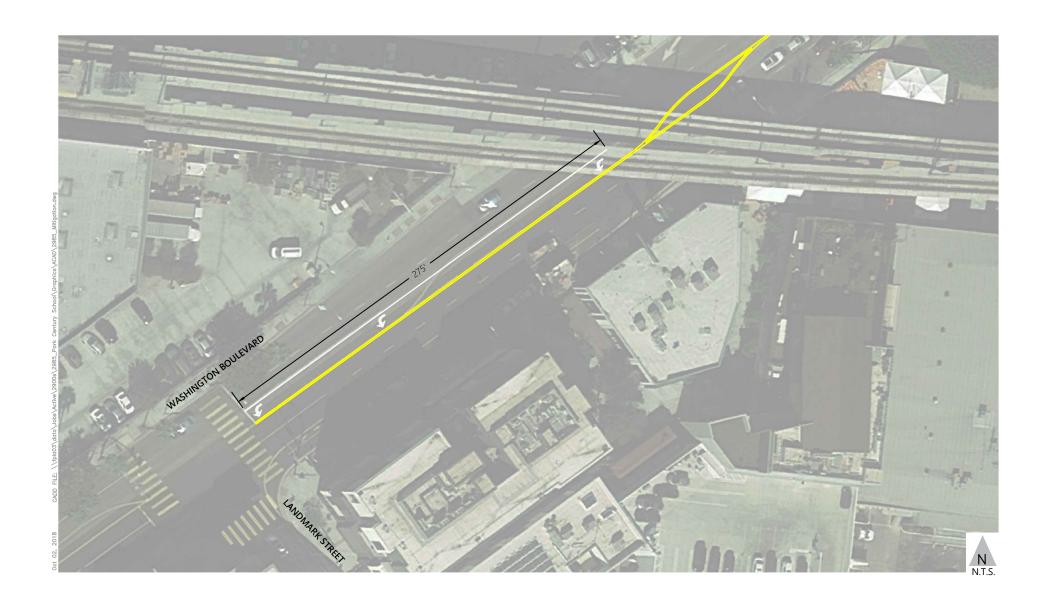
Notes: The storage and maximum queue lengths are rounded to the nearest 25 feet, which is approximately one car length.

The maximum queue is based on observed queue lengths, and represents the greatest observed queue over 10 simulation runs

A vehicle is considered queued whenever it is traveling at less than 10 ft/s or 6.8 mph.

^{*300} feet of queueing storage considers the whole length of the Park Century School parking lot.

^{^100} feet of queueing storage considers 4 metered parking spaces temporarily used for student loading/unloading during school pick-up and drop-off times





Washington Boulevard & Landmark Street

Park Century School Project



5. TRANSPORTATION DEMAND MANAGEMENT AND BICYCLE AND PEDESTRIAN CONNECTIONS

Transportation Demand Management (TDM) strategies are a common approach to reducing the impact of automobile trips and typically focus on commute trips. There are several strategies that can be employed:

- Increasing access and reducing cost to use transit
- Encouraging biking and walking through a combination of financial incentives, educational programs, and marketing
- Charging for parking so individuals are forced to pay for their space, rather than have the cost covered by the employer

As a school, Park Century trips are divided into two categories: employee trips and student trips. Employee trips largely follow normal commuting patterns, and are subject to the TDM strategies discussed above. Student trips are different, and involve a parent or guardian picking up or dropping off a student. These trips may be part of a larger trip chain, such as the parent's own commute to work, and strategies may include increasing student carpooling or providing alternative options for students to travel, such as bus service.

SHARED COMMUTING AND TRANSIT

The school is working to create a carpooling service which would reduce the amount of vehicle trips needed for students. The school and parents would contract with a third party vendor to pick up multiple students and take them to school, which would reduce the number of vehicle trips needed to transport students. Starting during construction, the school will be providing staff living close to the school and/or transit lines with Metro TAP cards. This service will be extended after construction is complete to encourage staff to commute by transit. The school is located a short walk from the Culver City Expo Line Station, and numerous bus routes.

BICYCLE PARKING

Bicycle parking will be provided at both grade (for the short-term parking) and in the parking garage (for long-term parking), with two and eight spaces respectively. All new bicycle racks will adhere to the Culver City Bicycle and Pedestrian Master Plan Design Guidelines.



EXISTING AND FUTURE BIKEWAYS

As stated in Chapter 2, there are dedicated bicycle facilities near the site on National Boulevard, Venice Boulevard, and Exposition Boulevard. In addition to existing bicycle facilities, Culver City has been working on bicycle improvements throughout the city. The Culver City Bicycle and Pedestrian Master Plan calls for new bicycle facilities within the vicinity of the project, on National Boulevard, Washington Boulevard, and Culver Boulevard. The City completed a feasibility study in May 2017 for the Expo-Downtown Bicycle Connector, which recommended a two-way protected bikeway on portions of Washington Boulevard and Robertson Boulevard. The design would maintain current configuration of four travel lanes on both Washington Boulevard and Robertson Boulevard, but would remove parking and center turn lanes in some locations. The City is currently working to finalize the design of the facility.

6. REGIONAL TRANSPORTATION IMPACT ANALYSIS

This chapter presents an analysis of potential project impacts on the regional transportation system in terms of vehicular and transit service impacts. This analysis was conducted in accordance with the transportation impact analysis (TIA) procedures outlined in 2010 Congestion Management Program for Los Angeles County (Los Angeles County Metropolitan Transportation Authority, October 2010). The Congestion Management Program (CMP) requires that, when an environmental impact report (EIR) is prepared for a project, traffic and transit impact analyses be conducted for select regional facilities based on the quantity of project traffic expected to use these facilities.

CMP TRAFFIC IMPACT ANALYSIS

CRITERIA FOR ANALYSIS

The CMP guidelines state that the first issue addressed be the determination of the geographic scope of the study area. The criteria for determining the study area for CMP arterial monitoring intersections and for freeway monitoring locations are:

- All CMP arterial monitoring intersections where the proposed project will add 50 or more trips during either the AM or PM weekday peak hours of adjacent street traffic.
- All CMP mainline freeway monitoring locations where the proposed project will add 150 or more trips, in either direction, during either the AM or PM weekday peak hours.

The CMP traffic impact analysis guidelines establish that a significant project impact occurs when the proposed project increases traffic demand on a CMP facility by 2% or more of capacity (V/C 0.02), causing or worsening LOS F (V/C > 1.00).

ARTERIAL MONITORING STATION ANALYSIS

The CMP arterial monitoring stations nearest to the project study area are

- La Cienega Boulevard & Venice Boulevard (City of Los Angeles)
- La Cienega Boulevard & Jefferson Boulevard (City of Los Angeles)
- Overland Avenue & Venice Boulevard (City of Los Angeles)
- La Cienega Boulevard & Centinela Avenue (City of Los Angeles)
- La Cienega Boulevard & Stocker Street (County of Los Angeles)

Based on the project trip generation estimates and a review of the net project traffic volumes shown in Figure 6, the proposed Project would add fewer than 50 vehicle trips at all these arterial monitoring stations. Therefore, no further analysis is required for the CMP arterial intersections.

FREEWAY MAINLINE MONITORING STATION ANALYSIS

This section presents an analysis of potential project impacts on the regional transportation system. This analysis was conducted in accordance with the transportation impact analysis procedures outlined in the CMP. Since incremental project-related traffic in any direction during either peak hour is projected to be less than the minimum criteria of 150 vehicles per hour (vph), no further CMP freeway analysis is required and CMP freeway impacts are considered to be less than significant.

REGIONAL TRANSIT IMPACT ANALYSIS

Potential increases in transit person trips generated by the proposed project were estimated as follows. Section D.8.4 of the CMP provides a methodology for estimating the number of transit trips expected to result from a proposed project based on the number of vehicle trips. This methodology assumes an average vehicle ridership (AVR) factor of 1.4 in order to estimate the number of person trips to and from the project and then provides guidelines regarding the percentage of person trips assigned to public transit depending on the type of use (commercial versus residential) and the proximity to transit services. Since the project site is not located within ¼ mile of a designated CMP transit corridor, the CMP guidelines estimate that approximately 3.5% of total person trips generated might use public transit to travel to and from the site. Although the school is located near a light rail station, most staff and students currently do not take transit, and this number is not expected to shift dramatically once the construction is complete.



Based on the trip generation shown in Table 3, the proposed project is estimated to generate 62 new trips in the AM peak hour, 38 in the midday peak hour, and 19 in the PM peak hour. Applying the CMP guidelines by converting the vehicle trips to person trips by multiplying by a 1.4 AVR (62 net AM peak hour trips x 1.4 = 87, 38 net MD peak hour trips x 1.4 = 53, and 19 net PM peak hour trips x 1.4 = 27) and applying a 3.5% transit use factor (87 net AM peak hour person trips x 3.5% = 3, 53 net MD peak hour person trips x 3.5% = 2, and 19 net PM peak hour person trips x 3.5% = 1), would result in approximately 3 new transit person trips during the weekday AM, 2 new trips in the midday, and 1 new trip in the PM.

Within ¼ mile of the project site, Metro, Culver CityBus, and Big Blue Bus operate several local and rapid buses, and Metro operates the Expo Light Rail Line, which has a station within a short walk of the school. These transit options have a peak hour capacity of several thousand riders. Based on this estimate, the project impact is expected to be less than significant.



This study was undertaken to analyze the potential traffic impacts of the proposed expansion of the Park Century School on the local street system. The following summarizes the results of this analysis:

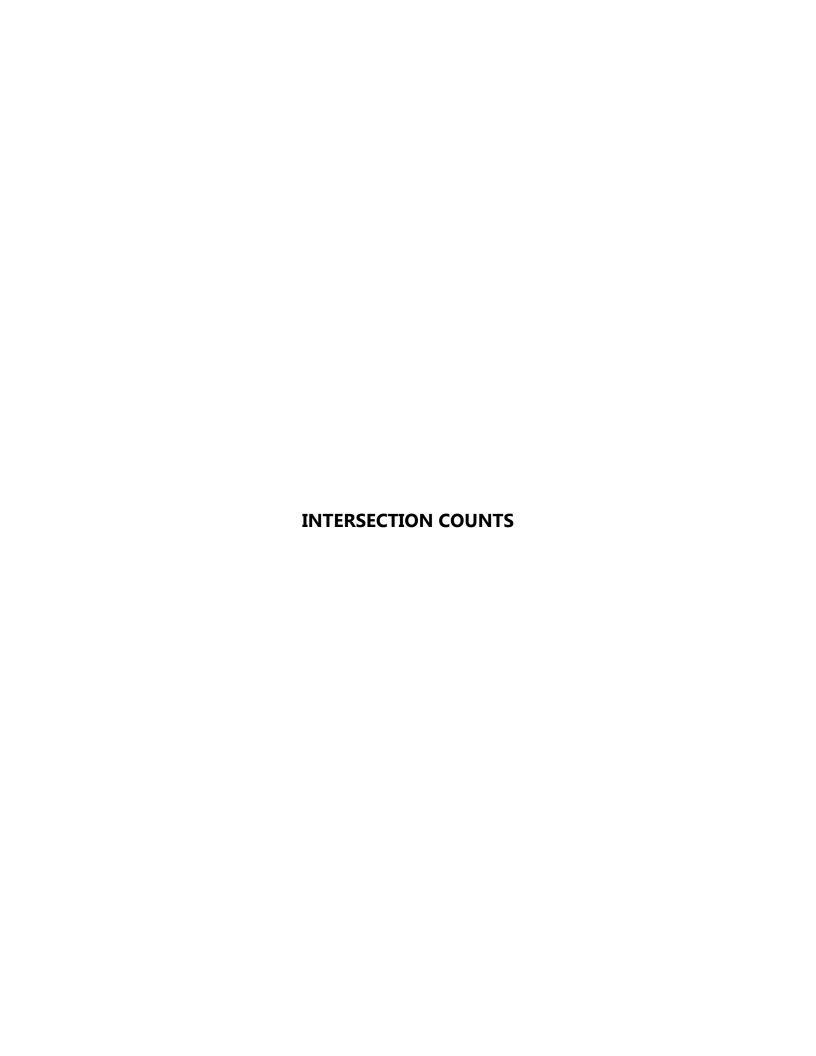
- The proposed project would expand the Park Century School to accommodate 50 additional students and eight additional staff. The project driveway would not change.
- The project would generate an estimated 62 trips (30 inbound/32 outbound) during the AM peak hour, 38 trips (22 inbound/16 outbound) during the MD peak hour, and 19 trips (8 inbound/11 outbound) during the PM peak hour.
- The LOS analysis for the Existing plus Project and Future plus Project scenarios (using City of Culver City and/or City of Los Angeles significance criteria, as applicable) determined that the proposed project would not result in any significant impacts for vehicle traffic at any of the eight study intersections.
- Analyses of potential impacts on the regional transportation system conducted in accordance with CMP requirements determined that the project would not have a significant impact on CMP monitoring intersections or the mainline freeway system.
- The project location is well served by numerous established transit routes and project-related impacts on the regional transit system are not expected to be significant.
- Queuing at the project driveway is minimal and has little effect on traffic operations on Landmark Street. With the construction of the school expansion, queuing is expected to remain similar. A traffic management plan (TMP) was created to coordinate pick-ups and drop-offs, and can be implemented if queuing at the driveway becomes an issue.
- During construction, pick-up and drop-off would occur on Landmark Street across from the school. Parking would be temporarily prohibited at four metered parking spaces during construction from 7:00-8:00 AM in the morning, and 2:30-3:30 PM in the afternoon. The school agrees to pay for the City costs and lost parking meter revenue (estimated to be \$1,679.39) associated with temporary parking prohibition during pick-up/drop-off during construction. The school agrees to the training and placing a crossing guard temporarily during construction, and will contact affected businesses at The Platform to inform them of the temporary use of the parking meters for pick up and drop off, and ask these businesses to contact the City or send the City their input.
- The westbound left-turn pocket on Washington Boulevard at Landmark Street currently has 100 feet of storage space. Queues at this approach exceed the storage space during the AM and PM peak hours in the existing scenario, and are expected to increase with the project. A 275 foot turn-pocket would be sufficient to store queued vehicles once the project is built. The approach has a painted medians before the striped turn-pockets, which provides an opportunity to extend



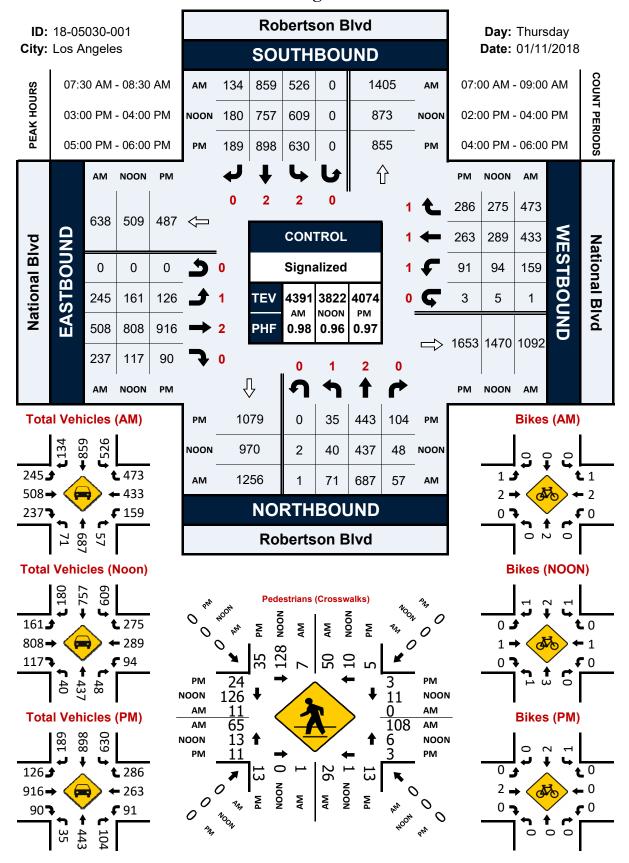
the turn pocket without reducing through vehicle capacity. The Project will be responsible for coordinating with the City to restripe this turn pocket to provide 275 feet of storage space.

APPENDIX A: INTERSECTION TRAFFIC COUNTS

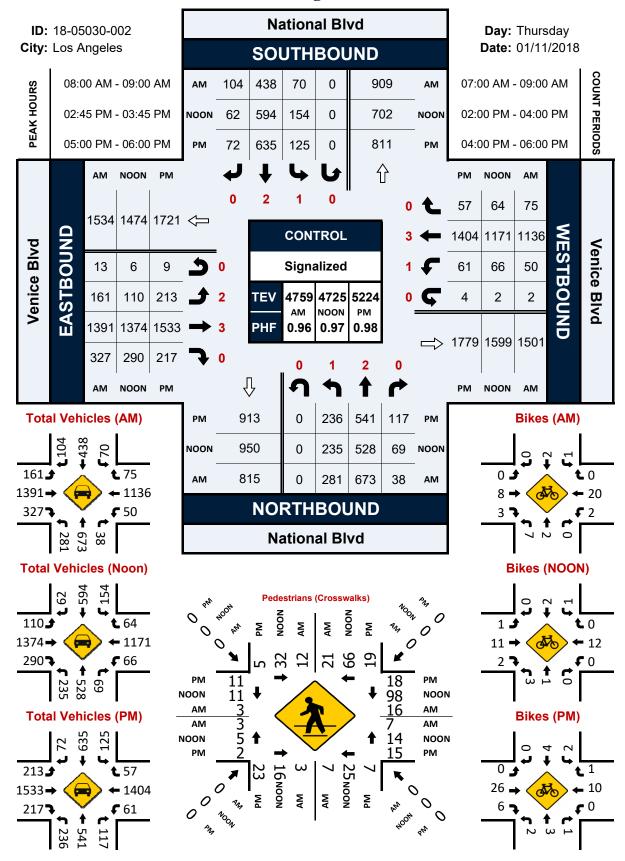




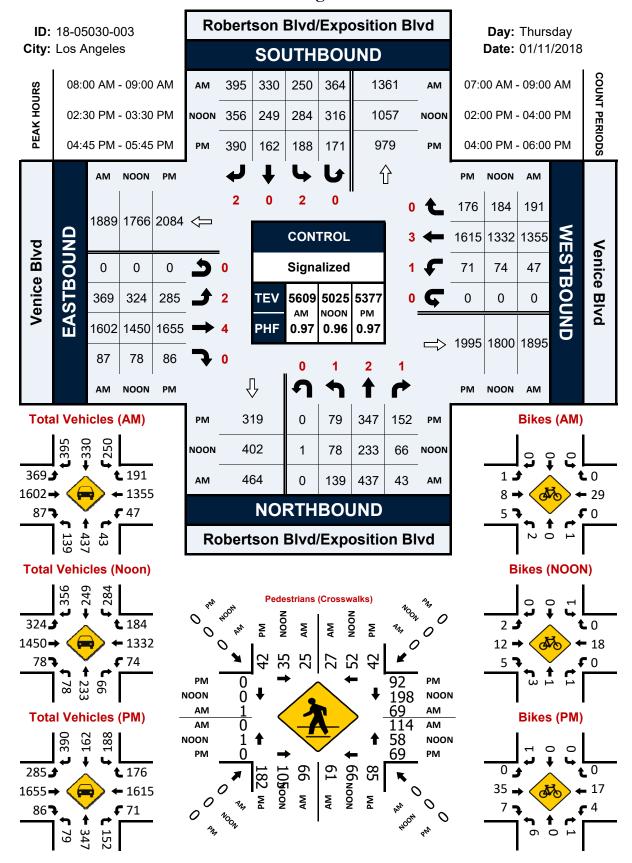
Robertson Blvd & National Blvd



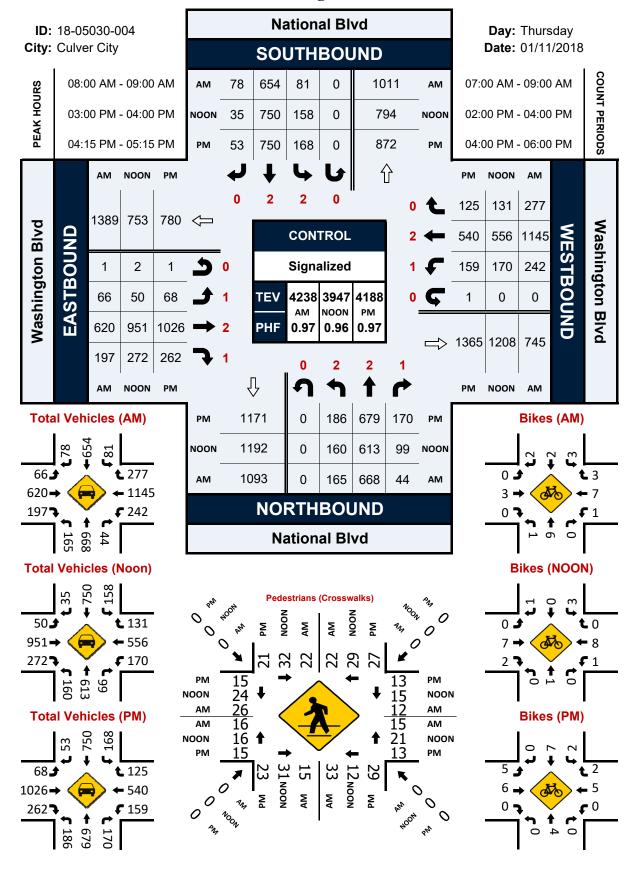
National Blvd & Venice Blvd



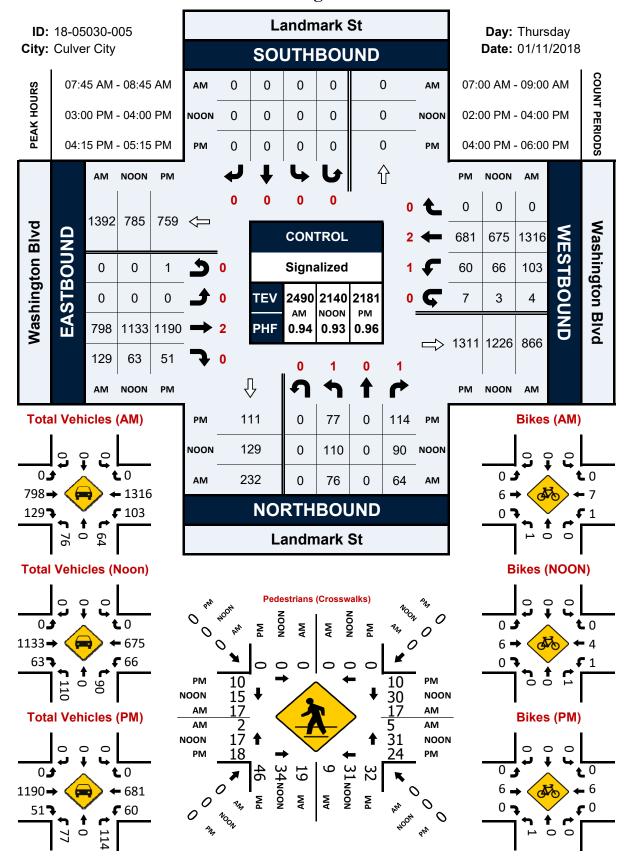
Robertson Blvd/Exposition Blvd & Venice Blvd



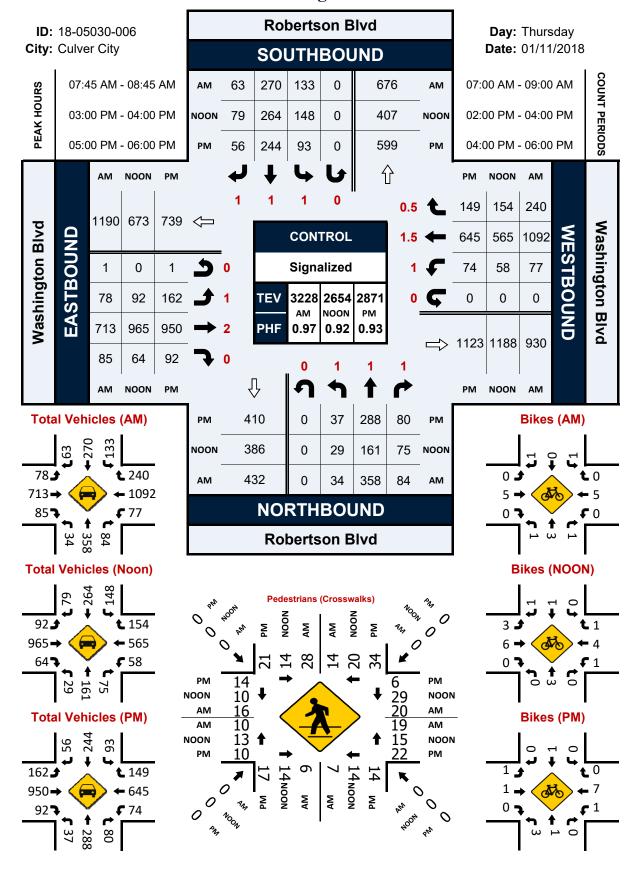
National Blvd & Washington Blvd



Landmark St & Washington Blvd

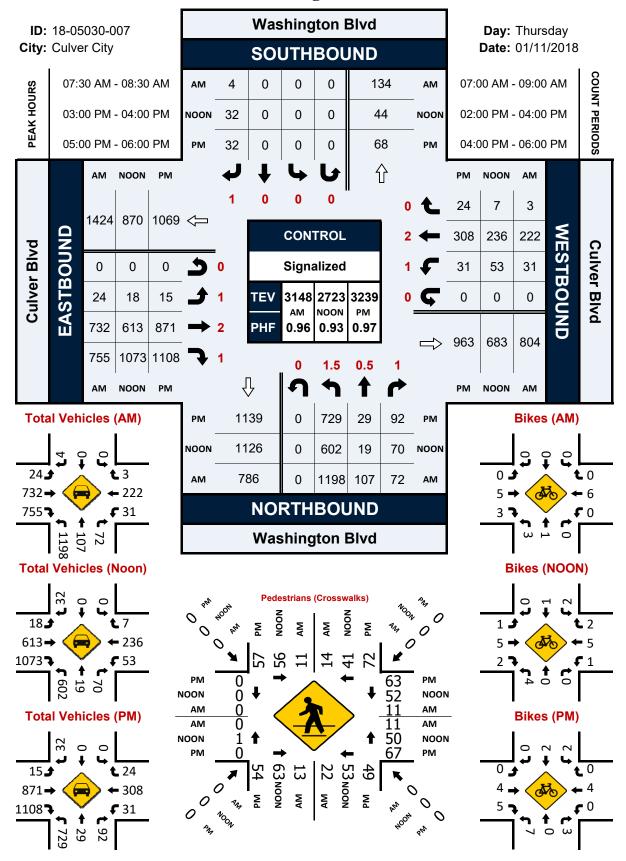


Robertson Blvd & Washington Blvd



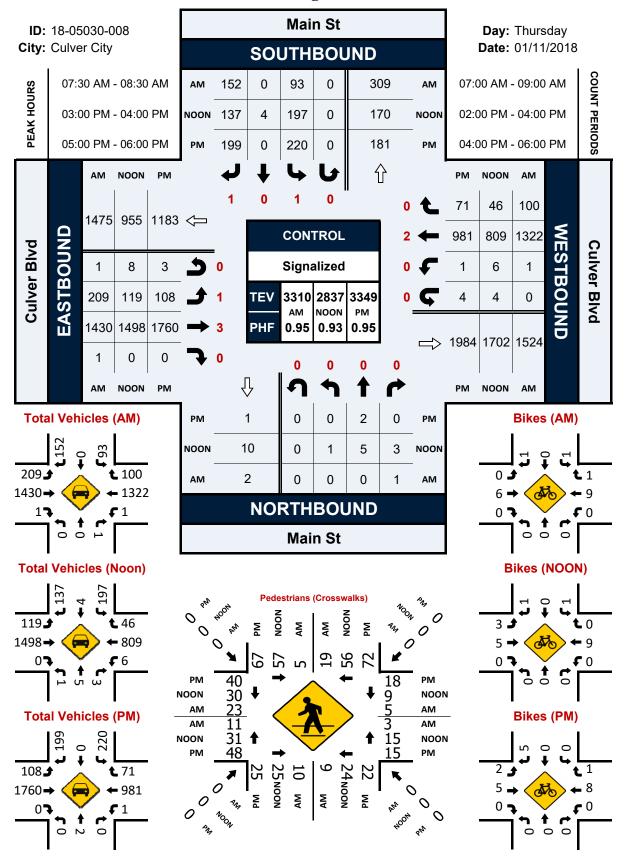
Washington Blvd & Culver Blvd

Peak Hour Turning Movement Count



Main St & Culver Blvd

Peak Hour Turning Movement Count



Prepared by National Data & Surveying Services

Driveway In & Out With Students

Location: Park Century School
City: Culver City
Date: 10/26/2017
Day: Thursday

Time	Inbound	Outbound	Grand Totals
7:00	0	0	0
7:15	0	0	0
7:30	7	1	8
7:45	13	1	14
8:00	38	1	39
8:15	11	0	11
8:30	2	0	2
8:45	0	0	0
Totals	71	3	74
14:00	0	1	1
14:15	0	0	0
14:30	0	0	0
14:45	0	3	3
15:00	0	24	24
15:15	0	3	3
15:30	1	4	5
15:45	1	5	6
16:00	0	12	12
16:15	0	3	3
16:30	0	10	10
16:45	0	1	1
17:00	0	0	0
17:15	0	0	0
17:30	0	0	0
17:45	0	0	0
17:45	2	66	68

Prepared by National Data & Surveying Services

Driveway In & Out Without Students

Location: Park Century School

City: Culver City

Day: Thursday

Time	Inbound	Outbound	Grand Totals
7:00	5	0	5
7:15	5	0	5
7:30	11	5	16
7:45	6	9	15
8:00	7	32	39
8:15	3	23	26
8:30	2	3	5
8:45	0	0	0
Totals	39	72	111
14:00	4	3	7
14:15	2	1	3
14:30	6	0	6
14:45	11	0	11
15:00	11	0	11
15:15	5	1	6
15:30	3	2	5
15:45	7	5	12
16:00	6	4	10
16:15	2	1	3
16:30	7	3	10
16:45	1	2	3
17:00	0	1	1
17:15	1	0	1
17:30	1	0	1
17:45	0	0	0
17:45	67	23	90

APPENDIX B: LOS ANALYSIS









I/S #:

PROJECT TITLE: Park Century School

North-South Street: Robertson BI East-West Street: National BI

Scenario: Existing

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

MOVEMENT	SB WB No. of Lanes	4 0 0 3 2 0
NB 0 SB 0 NB 0 EB 0 NB 0 SB 0 NB 0 SB 0 SB 0 SB 0 SB 0 SB 0 SB 0 SB 0	WB No. of Lanes	0 3 2 0
ATSAC-1 or ATSAC+ATCS-2? Override Capacity No. of Lane	WB No. of Lanes	3 2 0 Lane
ATSAC-1 or ATSAC+ATCS-2? 2 Override Capacity 0 No. of Lane	No. of Lanes	2 0 Lane
MOVEMENT No. of Lane	Lanes	Lane
MOVEMENT	Lanes	
Volume Lanes Volume Volume I		
Volume Lanes Volume Lourne Volume Left 72 1 72 35		Volume 35
Q	1 0	33
Through 687 1 372 443	1	274
Through-Right 1	1	
Fight 57 0 57 104	0	104
Q C C C C C C C C C C C C C C C C C C C	0	
Left-Right 0	0	
C	2	347
Comparison Co	0	•
6	1	544
型 ← Through-Right 1	1	400
5	0	189
Left-Right 0	0	
245 1 245 126	1	126
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 1	500
Q → Through 0 → Through 508 1 373 916 Through-Right 1 237 0 237 90 Through-Right 0 237 0 237 90 Through-Right 0 0 0 0 0	1	503
Right 237 0 237 90	0	90
¥	0	
	0	
	1	04
	1 0	94
On the control of t	1	263
m ← Through-Right 0	0	
Right 473 1 184 286	1	0
Left-Through-Right Left-Right 0 0	0 0	
	h-South:	621
	nst-West:	597
SUM: 1339	SUM:	1218
VOLUME/CAPACITY (V/C) RATIO: 0.974		0.886
V/C LESS ATSAC/ATCS ADJUSTMENT: 0.874		0.786
LEVEL OF SERVICE (LOS):		С





I/S #:

PROJECT TITLE: Park Century School

North-South Street: National BI East-West Street: Venice BI

Scenario: Existing

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

			AM PM				
	No. of Phases			4			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0
F	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0	SB	0	NB 0	SB	0
	ATSAC-1 or ATSAC+ATCS-2?	EB 0	WB	0 2	EB 0	WB	0 2
	Override Capacity			0			0
	·		No. of	Lane		No. of	Lane
	MOVEMENT	Volume	Lanes	Volume	Volume	Lanes	Volume
0	↑ Left	281	1	281	236	1	236
\(\frac{1}{2}\)	← Left-Through		0			0	
NORTHBOUND	↑ Through	673	1	356	541	1	329
▎▝▋▏	Through-Right		1			1	
I I	Right	38	0	38	117	0	117
N N	Left-Through-Right		0			0	
	Left-Right		0			0	
	√ Left	70	1	70	125	1	125
SOUTHBOUND	Left-Through	, ,	0	70	120	0	120
0	↓ Through	438	1	271	635	1	354
单	← Through-Right		1			1	
Ē	→ Right	104	0	104	72	0	72
l ö	← Left-Through-Right		0			0	
, o, l	∠ Left-Right		0			0	
	ے Left	174	2	96	222	2	122
₽	→ Left-Through	174	0	90	222	0	122
5	→ Through	1391	3	464	1533	3	511
EASTBOUND	→ Through-Right	, , ,	0			0	• • • •
ST	Right	327	1	187	217	1	99
EA	→ Left-Through-Right		0			0	
	-		0			0	
ı	C 1-#	50			0.5		0.5
۵		52	1 0	52	65	1 0	65
5	↓ Left-Through ← Through	1136	3	379	1404	3	468
B0	← Through-Right	1100	0	010	1707	0	400
ST	Right	75	1	40	57	1	0
WESTBOUND	Left-Through-Right		0			0	-
	├─ Left-Right		0			0	
		٨	lorth-South:	552	٨	lorth-South:	590
	CRITICAL VOLUMES		East-West:	516		East-West:	590
	VOLUME (OADACIEV (VICE DATE)		SUM:	1068		SUM:	1180
	VOLUME/CAPACITY (V/C) RATIO:			0.777			0.858
V/0	C LESS ATSAC/ATCS ADJUSTMENT:			0.677			0.758
	LEVEL OF SERVICE (LOS):			В			С





I/S #:

PROJECT TITLE: Park Century School

North-South Street: Robertson BI East-West Street: Venice BI

Scenario: Existing

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

			АМ			PM			
	No. of Phases			4			4		
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	ND 0	0.0	1	ND 0	0.0	1		
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0 EB 3	SB WB	0	NB 0 EB 3	SB WB	0		
	ATSAC-1 or ATSAC+ATCS-2?	LD	VV D=-	2	LB	WD	2		
	Override Capacity			0			0		
	MOVEMENT		No. of	Lane		No. of	Lane		
		Volume	Lanes	Volume	Volume	Lanes	Volume		
₽	Left Through	139	1 0	139	79	1 0	79		
Ž	← Left-Through ↑ Through	437	2	219	347	2	174		
BC	↑ Through-Right	407	0	213	347	0	1/4		
E	Right	43	1	20	152	1	117		
NORTHBOUND	← Left-Through-Right	-	0			0			
Z	Left-Right		0			0			
						· · · · · · · · · · · · · · · · · · ·			
₽	← Left	250	1	250	188	1	188		
SOUTHBOUND	⇒ Left-Through	220	0	200	100	0	460		
B0	│	330	0	330	162	1 0	162		
푸	Right	395	1	294	390	1	312		
9	Left-Through-Right	000	0	204	000	Ö	012		
Ö	Left-Right		0			0			
	Left	369	2	203	285	2	157		
Ĭ	→ Left-Through	4000	0	504	4055	0	550		
EASTBOUND	→ Through → Through-Right	1602	3 0	534	1655	3 0	552		
E TE	↑ Through-Right ↑ Right	87	1	0	86	1	7		
N.	Left-Through-Right	07	0	U		0	,		
ш	Left-Right		0			0			
	*								
_	√ Left	47	1	47	71	1	71		
¥		4055	0		1015	0			
WESTBOUND	← Through	1355	3	452	1615	3 0	538		
TE .	← Through-Right ← Right	191	0 1	66	176	U 1	82		
les Es	Left-Through-Right	191	0	00	170	0	02		
S			0			0			
	-	٨	orth-South:	549	۸	lorth-South:	486		
	CRITICAL VOLUMES		East-West:	655		East-West:	695		
			SUM:	1204		SUM:	1181		
	VOLUME/CAPACITY (V/C) RATIO:			0.876			0.859		
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.776			0.759		
	LEVEL OF SERVICE (LOS):			С			С		
	LEVEL OF SERVICE (LOS).			U	l		U		

4 - National BI & Washington BI Intersection:

Existing Description:

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): 3

ITS: 7 %

OLA Movements: FF Movements:

Date/Time: **AM PEAK HOUR**

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	0.00	78	0	0.000	N-S(1):	0.241
	TH	2.00	654	3,200	0.229 *	N-S(2):	0.293 *
	LT	2.00	81	2,560	0.032	E-W(1):	0.345 *
Westbound	RT	0.00	277	0	0.000	E-W(2):	0.338
	TH	3.00	1,145	4,800	0.296		
	LT	1.00	242	1,600	0.151 *	V/C:	0.638
Northbound	RT	1.00	44	1,600	0.000	Lost Time:	0.100
	TH	2.00	668	3,200	0.209	ITS:	-0.070
	LT	2.00	165	2,560	0.064 *		
Eastbound	RT	1.00	197	1,600	0.091	ICU:	0.668
	TH	2.00	620	3,200	0.194 *		
	LT	1.00	67	1,600	0.042	LOS:	В

Date/Time:	PM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	53	0	0.000	N-S(1):	0.278
	TH	2.00	750	3,200	0.251 *	N-S(2):	0.324 *
	LT	2.00	168	2,560	0.066	E-W(1):	0.421 *
Westbound	RT	0.00	125	0	0.000	E-W(2):	0.182
	TH	3.00	540	4,800	0.139		
	LT	1.00	160	1,600	0.100 *	V/C:	0.745
Northbound	RT	1.00	170	1,600	0.056	Lost Time:	0.100
	TH	2.00	679	3,200	0.212	ITS:	-0.070
	LT	2.00	186	2,560	0.073 *		
Eastbound	RT	1.00	262	1,600	0.127	ICU:	0.775
	TH	2.00	1,026	3,200	0.321 *		
	LT	1.00	69	1,600	0.043	LOS:	С

^{* -} Denotes critical movement

Intersection: 5 - Landmark St & Washington BI

Description: Existing

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

Date/Time: AM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.007
	TH	0.00	0	0	0.000 *	N-S(2):	0.048 *
	LT	0.00	0	0	0.000	E-W(1):	0.357
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.411 *
	TH	2.00	1,316	3,200	0.411 *		
	LT	1.00	107	1,600	0.067	V/C:	0.459
Northbound	RT	1.00	64	1,600	0.007	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	76	1,600	0.048 *		
Eastbound	RT	0.00	129	0	0.000	ICU:	0.489
	TH	2.00	798	3,200	0.290		
	LT	0.00	0	0	0.000 *	LOS:	Α

D - 4 - /T!	PM PEAK HOUR
Date/Time:	PIVI PEAN HOUR

4.000.04.044				0.4.0.4.0.4.7.7		1011 4114	11/010
APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.050 *
	TH	0.00	0	0	0.000	N-S(2):	0.048
	LT	0.00	0	0	0.000 *	E-W(1):	0.430 *
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.214
	TH	2.00	681	3,200	0.213		
	LT	1.00	67	1,600	0.042 *	V/C:	0.480
Northbound	RT	1.00	114	1,600	0.050 *	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	77	1,600	0.048		
Eastbound	RT	0.00	51	0	0.000	ICU:	0.510
	TH	2.00	1,190	1,600	0.388 *		
	LT	0.00	1	1,600	0.001	LOS:	Α

^{* -} Denotes critical movement

Intersection: 6 - Robertson BI & Washington BI

Description: Existing

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

Date/Time: AM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	1.00	63	1,600	0.015	N-S(1):	0.307 *
	TH	1.00	270	1,600	0.169	N-S(2):	0.190
	LT	1.00	133	1,600	0.083 *	E-W(1):	0.297
Westbound	RT	0.00	240	0	0.000	E-W(2):	0.465 *
	TH	2.00	1,092	3,200	0.416 *		
	LT	1.00	77	1,600	0.048	V/C:	0.772
Northbound	RT	1.00	84	1,600	0.028	Lost Time:	0.100
	TH	1.00	358	1,600	0.224 *	ITS:	-0.070
	LT	1.00	34	1,600	0.021		
Eastbound	RT	0.00	85	0	0.000	ICU:	0.802
	TH	2.00	713	3,200	0.249		
	LT	1.00	79	1,600	0.049 *	LOS:	D
				•			

D - 4 - /T!	DM DEAK HOUD	
Date/Time:	PM PEAK HOUR	

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	56	1,600	0.000	N-S(1):	0.238 *
	TH	1.00	244	1,600	0.153	N-S(2):	0.176
	LT	1.00	93	1,600	0.058 *	E-W(1):	0.372 *
Westbound	RT	0.00	149	0	0.000	E-W(2):	0.350
	TH	2.00	645	3,200	0.248		
	LT	1.00	74	1,600	0.046 *	V/C:	0.610
Northbound	RT	1.00	80	1,600	0.027	Lost Time:	0.100
	TH	1.00	288	1,600	0.180 *	ITS:	-0.070
	LT	1.00	37	1,600	0.023		
Eastbound	RT	0.00	92	0	0.000	ICU:	0.640
	TH	2.00	950	3,200	0.326 *		
	LT	1.00	163	1,600	0.102	LOS:	В

^{* -} Denotes critical movement

Intersection: 7 - Washington BI & Culver BI

Description: Existing

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): 3

ITS: 7 %

OLA Movements: FF Movements:

Date/Time: **AM PEAK HOUR**

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
	·						
Southbound	RT	1.00	4	1,600	0.003 *	N-S(1):	0.408
	TH	0.00	0	0	0.000	N-S(2):	0.513 *
	LT	0.00	0	0	0.000	E-W(1):	0.248 *
Westbound	RT	0.00	3	0	0.000	E-W(2):	0.085
	TH	2.00	222	3,200	0.070		
	LT	1.00	31	1,600	0.019 *	V/C:	0.761
Northbound	RT	1.00	72	1,600	0.035	Lost Time:	0.100
	TH	0.16	107	262	0.408	ITS:	-0.070
	LT	1.84	1,198	2,350	0.510 *		
Eastbound	RT	2.00	755	3,200	0.000	ICU:	0.791
	TH	2.00	732	3,200	0.229 *		
	LT	1.00	24	1,600	0.015	LOS:	С

Date/Time:	PM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	32	1,600	0.020 *	N-S(1):	0.237
	TH	0.00	0	0	0.000	N-S(2):	0.316 *
	LT	0.00	0	0	0.000	E-W(1):	0.291 *
Westbound	RT	0.00	24	0	0.000	E-W(2):	0.113
	TH	2.00	308	3,200	0.104		
	LT	1.00	31	1,600	0.019 *	V/C:	0.607
Northbound	RT	1.00	92	1,600	0.048	Lost Time:	0.100
	TH	80.0	29	122	0.237	ITS:	-0.070
	LT	1.92	729	2,462	0.296 *		
Eastbound	RT	2.00	1,108	3,200	0.198	ICU:	0.637
	TH	2.00	871	3,200	0.272 *		
	LT	1.00	15	1,600	0.009	LOS:	В

^{* -} Denotes critical movement

Project Title: Park Century School Intersection: 8 - Main St & Culver Bl

Description: Existing

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

Date/Time: AM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	J VSIS
ALLINOACII	101 0 101 1	LANLO	VOLOIVIL	CAI ACITT	V/O	I ICO AINA	KL I OIO
Southbound	RT	1.00	152	1,600	0.029	N-S(1):	0.059 *
	TH	0.00	0	0	0.000	N-S(2):	0.029
	LT	1.00	93	1,600	0.058 *	E-W(1):	0.448
Westbound	RT	0.00	100	0	0.000	E-W(2):	0.575 *
	TH	2.00	1,322	3,200	0.444 *	, ,	
	LT	1.00	1	1,600	0.001	V/C:	0.634
Northbound	RT	0.00	1	0	0.000	Lost Time:	0.100
	TH	1.00	0	1,600	0.001 *	ITS:	-0.070
	LT	0.00	0	0	0.000		
Eastbound	RT	0.00	1	0	0.000	ICU:	0.664
	TH	2.00	1,430	3,200	0.447		
	LT	1.00	210	1,600	0.131 *	LOS:	В

Date/Time:	PM PEAK HOUR
Date/Time:	PINI PEAN HUUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	199	1,600	0.090	N-S(1):	0.139 *
	TH	0.00	0	0	0.000	N-S(2):	0.090
	LT	1.00	220	1,600	0.138 *	E-W(1):	0.553 *
Westbound	RT	0.00	71	0	0.000	E-W(2):	0.398
	TH	2.00	981	3,200	0.329		
	LT	1.00	5	1,600	0.003 *	V/C:	0.692
Northbound	RT	0.00	0	0	0.000	Lost Time:	0.100
	TH	1.00	2	1,600	0.001 *	ITS:	-0.070
	LT	0.00	0	0	0.000		
Eastbound	RT	0.00	0	0	0.000	ICU:	0.722
	TH	2.00	1,760	3,200	0.550 *		
	LT	1.00	111	1,600	0.069	LOS:	С

^{* -} Denotes critical movement





PROJECT TITLE: Park Century School

North-South Street: Robertson Bl East-West Street: National Bl

Scenario: Existing

Count Date: 1/0/1900 Analyst: <Fehr & Peers <date>

			MD	
	No. of Phases			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	ND 0	0.0	0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0 EB 0	SB WB	0 3
	ATSAC-1 or ATSAC+ATCS-2?	LB=	VV D	2
	Override Capacity			0
	MOVEMENT	Walana a	No. of	Lane
	↑ Left	Volume 42	Lanes 1	Volume 42
D	← Left- Left-Through	42	0	42
Inc	↑ Through	437	1	243
IB(↑→ Through-Right		1	
₹	Right	48	0	48
NORTHBOUND	Left-Through-Right		0	
	Left-Right		0	
9		609	2 0	335
JU	↓ Through	757	1	469
IBC	→ Through-Right	737	1	403
SOUTHBOUND	→ Right	180	0	180
OL	← Left-Through-Right		0	
S	→ Left-Right		0	
	1	101		404
Ω	 J Left → Left-Through 	161	1 0	161
N	→ Through	808	1	463
ВО	→ Through-Right	000	1	400
EASTBOUND	Right	117	0	117
EA	→ Left-Through-Right		0	
	-		0	
	Clost	00	4	00
_	✓ Left ✓ Left-Through	99	1 0	99
BOUND	← Through	289	1	289
BO	← Through-Right	200	0	200
ST	Right	275	1	0
WES	Left-Through-Right		0	
	├─ Left-Right	_	0	
	CRITICAL VOLUMES	۸	Iorth-South:	578 563
	CRITICAL VOLUMES		East-West: SUM:	562 1140
	VOLUME/CAPACITY (V/C) RATIO:		JUIVI.	
17	C LESS ATSAC/ATCS ADJUSTMENT:			0.829
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				0.729
	LEVEL OF SERVICE (LOS):			С



I/S #:

PROJECT TITLE: Park Century School

North-South Street: National BI East-West Street: Venice

Scenario: Existing

Count Date: 1/0/1900 Analyst: <Fehr & Peers>

		1			7
			MD		
	No. of Phases			4	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0	SB	0	
		<i>EB</i> 0	WB	0	
	ATSAC-1 or ATSAC+ATCS-2?			2	
	Override Capacity		No. of	Lane	
	MOVEMENT	Volume	Lanes	Volume	
	↑ Left	235	1	235	
9	← Left-Through	200	0	233	
Ď	↑ Through	528	1	299	
ВС	_	320		299	
NORTHBOUND	Through-Right	69	1 0	69	
.X	Right	09	_	69	
Š	Left-Through-Right		0		
	Left-Right	l	0		
	√ Left	154	1	154	
P	Left-Through	104	0	154	
Ŋ	↓ Through	594	1	328	
BC	→ Through ← Through-Right	084	1	320	
SOUTHBOUND	→ Tillough-Right → Right	62	0	62	
<u>.</u>	← Left-Through-Right	02	0	02	
SC	Left-Right		0		
	2 - Love raight		, , , , , , , , , , , , , , , , , , ,		
	Ĵ Left	116	2	64	
9	Left-Through		0	٥.	
Ď	→ Through	1374	3	458	
ВС	→ Through-Right		0		
EASTBOUND	Right	290	1	173	
Ă	→ Left-Through-Right		0		
	بٰ Left-Right		0		
		68	1	68	
BOUND			0		
no	← Through	1171	3	390	
<u>ĕ</u>	← Through-Right		0		
S	Right	64	1	0	
WESTI	Left-Through-Right		0		
	├─ Left-Right		0		L
		^	lorth-South:	563	
	CRITICAL VOLUMES		East-West:	526	
			SUM:	1089	L
	VOLUME/CAPACITY (V/C) RATIO:			0.792	
V	/C LESS ATSAC/ATCS ADJUSTMENT:			0.692	
	LEVEL OF SERVICE (LOS):			В	
	LLVLL OF SLICVICE (LOS).			O]



I/S #:

PROJECT TITLE: Park Century School

North-South Street: Robertson BI

Scenario: Existing
Count Date: 1/0/1900

Analyst: <Fehr & Peers>

East-West Street: Venice

			MD	
	No. of Phases			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			1
F	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0	SB	0
•	right rums. Fixee-1, Nixton-2 of Gen-0:	EB 0	WB	0
	ATSAC-1 or ATSAC+ATCS-2?			2
	Override Capacity		l No of	0 Long
	MOVEMENT	Volume	No. of Lanes	Lane Volume
۵	Left	79	1	79
Z	Left-Through		0	
NORTHBOUND	↑ Through	233	2	117
뿔	Through-Right		0	
ᅜ	Right	66	1	29
N	Left-Through-Right		0	
	Left-Right		0	
	√ Left	284	1	284
	Left-Through	201	0	204
OO	↓ Through	249	1	249
띺	← Through-Right		0	
5	→ Right	356	1	267
SOUTHBOUND	← Left-Through-Right		0	
	→ Left-Right		0	
	ے Left	324	2	178
9	→ Left-Through	324	0	170
5	→ Through	1450	3	483
EASTBOUND	→ Through-Right		0	
ST	Right	78	1	0
EA	Left-Through-Right		0	
	- ≺ Left-Right		0	
	√ Left	7.4	1	74
₽	ν Leπ	74	0	74
	← Through	1332	3	444
WESTBOUN	Through-Right	1002	0	
ST	Right	184	1	42
NE N	Left-Through-Right		0	
-	├ Left-Right		0	
	ODITIOAL MOLLINGS	٨	lorth-South:	401
	CRITICAL VOLUMES		East-West:	622 1023
	VOLUME/CADACITY (V/C) BATIO		SUM:	
_	VOLUME/CAPACITY (V/C) RATIO:			0.744
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	C LESS ATSAC/ATCS ADJUSTMENT:			0.644
	LEVEL OF SERVICE (LOS):			В

4 - National BI & Washington BI Intersection:

Existing **Description:**

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): 3

ITS: 7 %

OLA Movements: FF Movements:

Date/Time: **MD PEAK HOUR**

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	0.00	35	0	0.000	N-S(1):	0.254
	TH	2.00	750	3,200	0.245 *	N-S(2):	0.308 *
	LT	2.00	158	2,560	0.062	E-W(1):	0.403 *
Westbound	RT	0.00	131	0	0.000	E-W(2):	0.176
	TH	3.00	556	4,800	0.143		
	LT	1.00	170	1,600	0.106 *	V/C:	0.711
Northbound	RT	1.00	99	1,600	0.009	Lost Time:	0.100
	TH	2.00	613	3,200	0.192	ITS:	-0.070
	LT	2.00	160	2,560	0.063 *		
Eastbound	RT	1.00	272	1,600	0.139	ICU:	0.741
	TH	2.00	951	3,200	0.297 *		
	LT	1.00	52	1,600	0.033	LOS:	С

Intersection: 5 - Landmark St & Washington BI

Description: Existing

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements :

FF Movements:

Date/Time: MD PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.035
	TH	0.00	0	0	0.000 *	N-S(2):	0.069 *
	LT	0.00	0	0	0.000	E-W(1):	0.417 *
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.211
	TH	2.00	675	3,200	0.211		
	LT	1.00	69	1,600	0.043 *	V/C:	0.486
Northbound	RT	1.00	90	1,600	0.035	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	110	1,600	0.069 *		
Eastbound	RT	0.00	63	0	0.000	ICU:	0.516
	TH	2.00	1,133	3,200	0.374 *		
	LT	0.00	0	0	0.000	LOS:	Α

6 - Robertson BI & Washington BI Intersection:

Description: Existing

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): 3

ITS: 7 %

OLA Movements: FF Movements:

Date/Time: **MD PEAK HOUR**

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	79	1,600	0.021	N-S(1):	0.194 *
	TH	1.00	264	1,600	0.165	N-S(2):	0.183
	LT	1.00	148	1,600	0.093 *	E-W(1):	0.358 *
Westbound	RT	0.00	154	0	0.000	E-W(2):	0.283
	TH	2.00	565	3,200	0.225		
	LT	1.00	58	1,600	0.036 *	V/C:	0.552
Northbound	RT	1.00	75	1,600	0.029	Lost Time:	0.100
	TH	1.00	161	1,600	0.101 *	ITS:	-0.070
	LT	1.00	29	1,600	0.018		
Eastbound	RT	0.00	64	0	0.000	ICU:	0.582
	TH	2.00	965	3,200	0.322 *		
	LT	1.00	92	1,600	0.058	LOS:	Α

Intersection: 7 - Washington BI & Culver BI

Description: Existing

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements :

FF Movements:

Date/Time: MD PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	32	1,600	0.020 *	N-S(1):	0.194
	TH	0.00	0	0	0.000	N-S(2):	0.263 *
	LT	0.00	0	0	0.000	E-W(1):	0.247 *
Westbound	RT	0.00	7	0	0.000	E-W(2):	0.087
	TH	2.00	236	3,200	0.076		
	LT	1.00	53	1,600	0.033 *	V/C:	0.510
Northbound	RT	1.00	70	1,600	0.027	Lost Time:	0.100
	TH	0.06	19	98	0.194	ITS:	-0.070
	LT	1.94	602	2,482	0.243 *		
Eastbound	RT	2.00	1,073	3,200	0.214 *	ICU:	0.540
	TH	2.00	613	3,200	0.192		
	LT	1.00	18	1,600	0.011	LOS:	Α
1							

Project Title: Park Century School Intersection: 8 - Main St & Culver Bl

Description: Existing

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

Date/Time: MD PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	I YSIS
7.1.1.1.07.101.1		27 11 1120	70201112	G7 11 7 1011 1	.,,	1007	
Southbound	RT	1.00	137	1,600	0.046	N-S(1):	0.132 *
	TH	0.02	4	32	0.126	N-S(2):	0.127
	LT	0.98	197	1,568	0.126 *	E-W(1):	0.474 *
Westbound	RT	0.00	46	0	0.000	E-W(2):	0.346
	TH	2.00	809	3,200	0.267		
	LT	1.00	10	1,600	0.006 *	V/C:	0.606
Northbound	RT	0.00	3	0	0.000	Lost Time:	0.100
	TH	1.00	5	1,600	0.006 *	ITS:	-0.070
	LT	0.00	1	1,600	0.001		
Eastbound	RT	0.00	0	0	0.000	ICU:	0.636
	TH	2.00	1,498	3,200	0.468 *		
	LT	1.00	127	1,600	0.079	LOS:	В







I/S #:

PROJECT TITLE: Park Century School

North-South Street: Robertson BI East-West Street: National BI

Scenario: Existing plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

			AM			PM			
	No. of Phases			4			4		
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	NB 0	SB	0	NB 0	SB	0		
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	EB 0	ЗБ WВ	3	EB 0	ЗВ WВ	3		
	ATSAC-1 or ATSAC+ATCS-2?			2			2		
	Override Capacity			0			0		
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume		
	↑ Left	72	1	72	35	1	35		
NORTHBOUND	← Left-Through		0			0			
00	↑ Through	687	1	372	443	1	274		
9	├ Through-Right		1			1			
RT	Right	57	0	57	104	0	104		
2	Left-Through-Right		0			0 0			
	Left-Right		0			U			
	← Left	530	2	292	631	2	347		
SOUTHBOUND			0			0			
301	↓ Through	859	1	497	898	1	544		
ᄩ	✓ Through-Right✓ Right	134	1 0	134	189	1 0	189		
5	Left-Through-Right	134	0	134	109	0	109		
တိ	↓ Left-Right		0			0			
۵	J Left	245	1	245	126	1	126		
S	→ Left-Through→ Through	510	0 1	374	916	0 1	503		
8	→ Through-Right	010	1	07.1	010	1	000		
EASTBOUND	Right	237	0	237	90	0	90		
EA	Left-Through-Right		0			0			
	Left-Right		0			0			
	V Left	160	1	160	94	1	94		
N			0	.00		0	•		
9	← Through	435	1	435	264	1	264		
WESTBOUND	Through-Right	475	0	400	007	0	0		
ES	Right Left-Through-Right	475	1 0	183	287	1 0	0		
\$	Left-Right		0			0			
	, ,	۸	orth-South:	664	۸	lorth-South:	621		
	CRITICAL VOLUMES		East-West:	680		East-West:	597		
	VOLUME (0.4 D.4 OLTY (1/(0.) D.4 T.10		SUM:	1344		SUM:			
_	VOLUME/CAPACITY (V/C) RATIO:			0.977			0.886		
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.877			0.786		
	LEVEL OF SERVICE (LOS):			D			С		





I/S #:

PROJECT TITLE: Park Century School

North-South Street: National BI East-West Street: Venice BI

Scenario: Existing plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

			AM			PM	
	No. of Phases			4			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	NB 0	SB	0	NB 0	SB	0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	EB 0	3Б WВ	0	NB 0 EB 0	зь WВ	0
	ATSAC-1 or ATSAC+ATCS-2?		2	2		2	2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
	↑ Left	281	1	281	236	1	236
9	← Left-Through	201	0	201	230	0	230
	↑ Through	677	1	359	542	1	330
P	↑ Through-Right		1			1	
RTI	Right	41	0	41	118	0	118
NORTHBOUND	Left-Through-Right		0			0	
	Left-Right		0			0	
	⇔ Left	70	1	70	125	1	125
	⇒ Left-Through	. •	0	. •		0	
l g	↓ Through	443	1	274	636	1	354
男	→ Through-Right	404	1	404	70	1	70
SOUTHBOUND		104	0 0	104	72	0 0	72
SC	Left-Right		0			0	
	24 g						
	Left	174	2	96	222	2	122
K	→ Left-Through	4004	0	404	4500	0	544
EASTBOUND	→ Through → Through-Right	1391	3 0	464	1533	3 0	511
STE	Right	327	1	187	217	1	99
ËÄ	→ Left-Through-Right		0			0	
	-		0			0	
	· Left	E A	4	F.4		4	66
₽	✓ Left ✓ Left-Through	54	1 0	54	66	1 0	66
l Š	← Through	1136	3	379	1404	3	468
<u> </u>	Through-Right		0			0	
WESTBOUND	Right	75	1	40	57	1	0
₹	Left-Through-Right Left-Right		0 0			0 0	
	├ Left-Right	Λ	lorth-South:	555	٨	lorth-South:	590
	CRITICAL VOLUMES		East-West:	518		East-West:	590
			SUM:	1073		SUM:	1180
	VOLUME/CAPACITY (V/C) RATIO:			0.780			0.858
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.680			0.758
	LEVEL OF SERVICE (LOS):			В			С





I/S #:

PROJECT TITLE: Park Century School

North-South Street: Robertson BI East-West Street: Venice BI

Scenario: Existing plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

			AM			PM	
	No. of Phases			4			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	NB 0	SB	1	NB 0	SB	1 0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	EB 0	WB	0	EB 0	<i>WB</i>	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity		No of	0		No. of	0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
	↑ Left	141	1	141	80	1	80
N N	← Left-Through		0			0	
NORTHBOUND	∱ Through	445	2	223	350	2	175
뿔	Through-Right	40	0	00	450	0	4.47
 K	│ Right → Left-Through-Right	43	1 0	20	152	1 0	117
×	Left-Right		0			0	
Q	← Left	250	1	250	188	1	188
N	⇒ Left-Through	000	0		404	0	404
ВО	↓ Through	339	0	339	164	0	164
ᄑ	→ Right	395	1	294	390	1	312
SOUTHBOUND	← Left-Through-Right		0	_0.		0	· · · ·
S	, Left-Right		0			0	
		200	2	202	205	2	457
Ω	→ Leπ → Left-Through	369	2 0	203	285	2 0	157
	→ Through	1602	3	534	1655	3	552
EASTBOUND	→ Through-Right		0			0	
\ST	Right	89	1	19	86	1	46
7	Left-Through-Right		0 0			0 0	
			U			U	
	√ Left	47	1	47	71	1	71
WESTBOUND			0			0	
00	← Through	1355	3	452	1615	3	538
TB	← Through-Right ← Right	191	0 1	66	176	0	82
VES	Left-Through-Right	191	0	00	170	0	02
>	Ç Left-Right		Ö			Ö	
		٨	lorth-South:	562	٨	lorth-South:	487
	CRITICAL VOLUMES		East-West:	655 1217		East-West:	695
	VOLUME/CAPACITY (V/C) RATIO:		SUM:	1217		SUM:	1182
17	• •			0.885			0.860
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.785			0.760
	LEVEL OF SERVICE (LOS):			С			С

Intersection: 4 - National BI & Washington BI

Description: Existing plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

Date/Time: AM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
				_			
Southbound	RT	0.00	86	0	0.000	N-S(1):	0.241
	TH	2.00	654	3,200	0.231 *	N-S(2):	0.296 *
	LT	2.00	81	2,560	0.032	E-W(1):	0.347 *
Westbound	RT	0.00	277	0	0.000	E-W(2):	0.343
	TH	3.00	1,148	4,800	0.297		
	LT	1.00	242	1,600	0.151 *	V/C:	0.643
Northbound	RT	1.00	44	1,600	0.000	Lost Time:	0.100
	TH	2.00	668	3,200	0.209	ITS:	-0.070
	LT	2.00	167	2,560	0.065 *		
Eastbound	RT	1.00	200	1,600	0.092	ICU:	0.673
	TH	2.00	626	3,200	0.196 *		
	LT	1.00	73	1,600	0.046	LOS:	В

D - 4 - /T!	DM DEAK HOUD	
Date/Time:	PM PEAK HOUR	

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	55	0	0.000	N-S(1):	0.278
	TH	2.00	750	3,200	0.252 *	N-S(2):	0.325 *
	LT	2.00	168	2,560	0.066	E-W(1):	0.421 *
Westbound	RT	0.00	125	0	0.000	E-W(2):	0.183
	TH	3.00	541	4,800	0.139		
	LT	1.00	160	1,600	0.100 *	V/C:	0.746
Northbound	RT	1.00	170	1,600	0.056	Lost Time:	0.100
	TH	2.00	679	3,200	0.212	ITS:	-0.070
	LT	2.00	186	2,560	0.073 *		
Eastbound	RT	1.00	263	1,600	0.128	ICU:	0.776
	TH	2.00	1,028	3,200	0.321 *		
	LT	1.00	71	1,600	0.044	LOS:	С

^{* -} Denotes critical movement

5 - Landmark St & Washington Bl Intersection:

Existing plus Project Description:

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): 3

ITS: 7 %

OLA Movements: FF Movements:

Date/Time: **AM PEAK HOUR**

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.013
	TH	0.00	0	0	0.000 *	N-S(2):	0.058 *
	LT	0.00	0	0	0.000	E-W(1):	0.369
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.411 *
	TH	2.00	1,316	3,200	0.411 *		
	LT	1.00	119	1,600	0.074	V/C:	0.469
Northbound	RT	1.00	80	1,600	0.013	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	92	1,600	0.058 *		
Eastbound	RT	0.00	147	0	0.000	ICU:	0.499
	TH	2.00	798	3,200	0.295		
	LT	0.00	0	0	0.000 *	LOS:	Α

Date/Time:	PM PEAK HOUR
Date/Time:	PINI PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.053 *
	TH	0.00	0	0	0.000	N-S(2):	0.052
	LT	0.00	0	0	0.000 *	E-W(1):	0.434 *
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.214
	TH	2.00	681	3,200	0.213		
	LT	1.00	70	1,600	0.044 *	V/C:	0.487
Northbound	RT	1.00	120	1,600	0.053 *	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	83	1,600	0.052		
Eastbound	RT	0.00	56	0	0.000	ICU:	0.517
	TH	2.00	1,190	1,600	0.390 *		
	LT	0.00	1	1,600	0.001	LOS:	Α

^{* -} Denotes critical movement

Intersection: 6 - Robertson BI & Washington BI

Existing plus Project Description:

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): 7 % 3

ITS:

OLA Movements: FF Movements:

Date/Time: **AM PEAK HOUR**

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
·		·					
Southbound	RT	1.00	63	1,600	0.015	N-S(1):	0.314 *
	TH	1.00	270	1,600	0.169	N-S(2):	0.190
	LT	1.00	144	1,600	0.090 *	E-W(1):	0.300
Westbound	RT	0.00	250	0	0.000	E-W(2):	0.470 *
	TH	2.00	1,098	3,200	0.421 *		
	LT	1.00	77	1,600	0.048	V/C:	0.784
Northbound	RT	1.00	84	1,600	0.028	Lost Time:	0.100
	TH	1.00	358	1,600	0.224 *	ITS:	-0.070
	LT	1.00	34	1,600	0.021		
Eastbound	RT	0.00	85	0	0.000	ICU:	0.814
	TH	2.00	721	3,200	0.252		
	LT	1.00	79	1,600	0.049 *	LOS:	D

D - 4 - /T!	DM DEAK HOUD	
Date/Time:	PM PEAK HOUR	

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	56	1,600	0.000	N-S(1):	0.240 *
	TH	1.00	244	1,600	0.153	N-S(2):	0.176
	LT	1.00	96	1,600	0.060 *	E-W(1):	0.372 *
Westbound	RT	0.00	152	0	0.000	E-W(2):	0.352
	TH	2.00	647	3,200	0.250		
	LT	1.00	74	1,600	0.046 *	V/C:	0.612
Northbound	RT	1.00	80	1,600	0.027	Lost Time:	0.100
	TH	1.00	288	1,600	0.180 *	ITS:	-0.070
	LT	1.00	37	1,600	0.023		
Eastbound	RT	0.00	92	0	0.000	ICU:	0.642
	TH	2.00	952	3,200	0.326 *		
	LT	1.00	163	1,600	0.102	LOS:	В

^{* -} Denotes critical movement

Intersection: 7 - Washington BI & Culver BI

Description: Existing plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

Date/Time: AM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	4	1,600	0.003 *	N-S(1):	0.410
	TH	0.00	0	0	0.000	N-S(2):	0.515 *
	LT	0.00	0	0	0.000	E-W(1):	0.248 *
Westbound	RT	0.00	3	0	0.000	E-W(2):	0.085
	TH	2.00	222	3,200	0.070		
	LT	1.00	31	1,600	0.019 *	V/C:	0.763
Northbound	RT	1.00	72	1,600	0.035	Lost Time:	0.100
	TH	0.16	107	261	0.410	ITS:	-0.070
	LT	1.84	1,204	2,351	0.512 *		
Eastbound	RT	2.00	763	3,200	0.000	ICU:	0.793
	TH	2.00	732	3,200	0.229 *		
	LT	1.00	24	1,600	0.015	LOS:	С

Date/Time:	PM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	32	1,600	0.020 *	N-S(1):	0.238
	TH	0.00	0	0	0.000	N-S(2):	0.317 *
	LT	0.00	0	0	0.000	E-W(1):	0.291 *
Westbound	RT	0.00	24	0	0.000	E-W(2):	0.113
	TH	2.00	308	3,200	0.104		
	LT	1.00	31	1,600	0.019 *	V/C:	0.608
Northbound	RT	1.00	92	1,600	0.048	Lost Time:	0.100
	TH	80.0	29	122	0.238	ITS:	-0.070
	LT	1.92	731	2,462	0.297 *		
Eastbound	RT	2.00	1,110	3,200	0.198	ICU:	0.638
	TH	2.00	871	3,200	0.272 *		
	LT	1.00	15	1,600	0.009	LOS:	В

^{* -} Denotes critical movement

Project Title: Park Century School Intersection: 8 - Main St & Culver Bl Description: Existing plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

Date/Time: AM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	152	1,600	0.029	N-S(1):	0.061 *
	TH	0.00	0	0	0.000	N-S(2):	0.029
	LT	1.00	96	1,600	0.060 *	E-W(1):	0.450
Westbound	RT	0.00	102	0	0.000	E-W(2):	0.578 *
	TH	2.00	1,327	3,200	0.447 *		
	LT	1.00	1	1,600	0.001	V/C:	0.639
Northbound	RT	0.00	1	0	0.000	Lost Time:	0.100
	TH	1.00	0	1,600	0.001 *	ITS:	-0.070
	LT	0.00	0	0	0.000		
Eastbound	RT	0.00	1	0	0.000	ICU:	0.669
	TH	2.00	1,435	3,200	0.449		
	LT	1.00	210	1,600	0.131 *	LOS:	В

Date/Time:	PM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	199	1,600	0.090	N-S(1):	0.139 *
	TH	0.00	0	0	0.000	N-S(2):	0.090
	LT	1.00	221	1,600	0.138 *	E-W(1):	0.553 *
Westbound	RT	0.00	72	0	0.000	E-W(2):	0.399
	TH	2.00	983	3,200	0.330		
	LT	1.00	5	1,600	0.003 *	V/C:	0.692
Northbound	RT	0.00	0	0	0.000	Lost Time:	0.100
	TH	1.00	2	1,600	0.001 *	ITS:	-0.070
	LT	0.00	0	0	0.000		
Eastbound	RT	0.00	0	0	0.000	ICU:	0.722
	TH	2.00	1,761	3,200	0.550 *		
	LT	1.00	111	1,600	0.069	LOS:	С

^{* -} Denotes critical movement





PROJECT TITLE: Park Century School

North-South Street: Robertson Bl

Scenario: Existing Plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers>

East-West Street: National BI

	Count Date: 1/0/1900		Analyst:	<fehr &="" peers<="" th=""></fehr>
			MD	
	No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			4 0
F	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0 EB 0	SB WB	0 3
	ATSAC-1 or ATSAC+ATCS-2?	<i>LB</i> 0	VV D	2
	Override Capacity			0
	MOVEMENT		No. of	Lane
		Volume	Lanes	Volume
₽	↑ Left	42	1	42
NORTHBOUND	Left-Through	407	0	0.40
ВО	↑ Through	437	1 1	243
ᄑ	Through-Right Right	48	0	48
JR.	tight ← Left-Through-Right	40	0	40
ž	Left-Right		0	
	Lott-ragin		, , , , , , , , , , , , , , , , , , ,	
	★ Left	612	2	337
Z			0	
O	Through	757	1	469
~	← Through-Right		1	
5	✓ Right	180	0	180
SOUTHBOUND	← Left-Through-Right		0	
	∠ Left-Right		0	
	ے Left	161	1	161
₽	→ Left-Through		0	101
5	→ Through	809	1	463
EASTBOUND	→ Through-Right		1	
ST	Right	117	0	117
EA	→ Left-Through-Right		0	
	-		0	
	C 1. 6			
Ω		99	1 0	99
UND	↓ Leit-Through ← Through	290	1	290
	← Through-Right	290	0	290
WESTBO	Right	276	1	0
KE	Left-Through-Right		0	ŭ
	├ Left-Right		0	
		٨	lorth-South:	580
	CRITICAL VOLUMES		East-West:	562
			SUM:	1142
	VOLUME/CAPACITY (V/C) RATIO:			0.831
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.731
	LEVEL OF SERVICE (LOS):			С
	=======================================			•





PROJECT TITLE: Park Century School

North-South Street: National BI

Scenario: Existing Plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers>

East-West Street: Venice BI

	Count Date: 1/0/1900		Analyst:	<fehr &="" peers<="" th=""></fehr>
			MD	
	No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			4 0
I	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0 EB 0	SB WB	0 0
	ATSAC-1 or ATSAC+ATCS-2? Override Capacity			2
	MOVEMENT	Volume	No. of Lanes	Lane Volume
ND	↑ Left	235	1 0	235
воп	↑ Through → Through-Right	530	1	300
NORTHBOUND	Right	70	0	70
N	Left-Right Left-Right		0	
	√√≾ Left	154	1	154
SOUTHBOUND	Left-Through Through	598	0	330
ТНВС	→ Through-Right → Right	62	1 0	62
nos	← Left-Through-Right	02	0	02
	2	l		
9	→ Left → Left-Through	116	2 0	64
Bour	→ Through → Through-Right	1374	3 0	458
EASTBOUND	Right Left-Through-Right	290	1 0	173
ш	→ Left-Right		0	
	√ Left	70	1	70
OND		1171	0 3	390
ТВС	← Through-Right		0	
WESTBO	Right Left-Through-Right Left-Right	64	0	0
	t reit-viäur	٨	lorth-South:	565
	CRITICAL VOLUMES)	East-West: SUM:	528 1093
	VOLUME/CAPACITY (V/C) RATIO:			0.795
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.795 0.695
	LEVEL OF SERVICE (LOS):			В





PROJECT TITLE: Park Century School

North-South Street: Robertson BI
Scenario: Existing Plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers>

East-West Street: Venice BI

ir-	Count Date. 1/0/1900	1	Allalyst.	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>				
		MD						
	No. of Phases			4				
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			1				
	2. 14.T EDEE 4 NDTOD 0 01.4.00	NB 0	SB	0				
l	Right Turns: FREE-1, NRTOR-2 or OLA-3?	EB 0	WB	0				
	ATSAC-1 or ATSAC+ATCS-2?			2				
	Override Capacity			0				
			No. of	Lane				
	MOVEMENT	Volume	Lanes	Volume				
_	↑ Left	80	1	80				
	← Left-Through		0					
	↑ Through	237	2	119				
BC	_	257	0	119				
돈	Through-Right	66		20				
NORTHBOUND	Right	66	1	29				
2	Left-Through-Right		0					
	Left-Right		0					
SOUTHBOUND	← Left	284	1	284				
			0					
	↓ Through	256	1	256				
里	← Through-Right		0					
<u>E</u>	ب Right	356	1	267				
0	← Left-Through-Right		0					
တ	→ Left-Right		0					
_	ு Left	324	2	178				
9	→ Left-Through		0					
	→ Through	1450	3	483				
BC	→ Through-Right		0					
EASTBOUND	Right	79	1	39				
Ä	Left-Through-Right		0					
"	→ Left-Right		0					
	√ Left	74	1	74				
9		· ·	0					
OUND	← Through	1332	3	444				
30	Through-Right	1002	0	777				
WESTB	Right	184	1	42				
ű	Left-Through-Right	104	0	72				
>	Left-Right		0					
	γ –-···· 3 ···	^	403					
	CRITICAL VOLUMES	l "	lorth-South: East-West:	622				
	STATIONE VOLUMES		SUM:	1025				
	VOLUME/CARACITY (V/C) RATIO:		30W.	0.745				
VOLUME/CAPACITY (V/C) RATIO:								
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.645				
	LEVEL OF SERVICE (LOS):			В				
1		•						

Intersection: 4 - National BI & Washington BI

Description: Existing plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

Date/Time: MD PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	41	0	0.000	N-S(1):	0.254
	TH	2.00	750	3,200	0.247 *	N-S(2):	0.310 *
	LT	2.00	158	2,560	0.062	E-W(1):	0.404 *
Westbound	RT	0.00	131	0	0.000	E-W(2):	0.178
	TH	3.00	558	4,800	0.144		
	LT	1.00	170	1,600	0.106 *	V/C:	0.714
Northbound	RT	1.00	99	1,600	0.009	Lost Time:	0.100
	TH	2.00	613	3,200	0.192	ITS:	-0.070
	LT	2.00	161	2,560	0.063 *		
Eastbound	RT	1.00	274	1,600	0.140	ICU:	0.744
	TH	2.00	954	3,200	0.298 *		
	LT	1.00	55	1,600	0.034	LOS:	С
				·			

Intersection: 5 - Landmark St & Washington BI

Description: Existing plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

Date/Time: MD PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.038
	TH	0.00	0	0	0.000 *	N-S(2):	0.074 *
	LT	0.00	0	0	0.000	E-W(1):	0.427 *
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.211
	TH	2.00	675	3,200	0.211		
	LT	1.00	78	1,600	0.049 *	V/C:	0.501
Northbound	RT	1.00	99	1,600	0.038	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	119	1,600	0.074 *		
Eastbound	RT	0.00	76	0	0.000	ICU:	0.531
	TH	2.00	1,133	3,200	0.378 *		
	LT	0.00	0	0	0.000	LOS:	Α

Intersection: 6 - Robertson BI & Washington BI

Description: Existing plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements :

FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	1.00	79	1,600	0.021	N-S(1):	0.199 *
	TH	1.00	264	1,600	0.165	N-S(2):	0.183
	LT	1.00	156	1,600	0.098 *	E-W(1):	0.359 *
Westbound	RT	0.00	159	0	0.000	E-W(2):	0.285
	TH	2.00	568	3,200	0.227		
	LT	1.00	58	1,600	0.036 *	V/C:	0.558
Northbound	RT	1.00	75	1,600	0.029	Lost Time:	0.100
	TH	1.00	161	1,600	0.101 *	ITS:	-0.070
	LT	1.00	29	1,600	0.018		
Eastbound	RT	0.00	64	0	0.000	ICU:	0.588
	TH	2.00	971	3,200	0.323 *		
	LT	1.00	92	1,600	0.058	LOS:	Α

7 - Washington BI & Culver BI Intersection:

Existing plus Project **Description:**

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): 3

ITS: 7 %

OLA Movements: FF Movements:

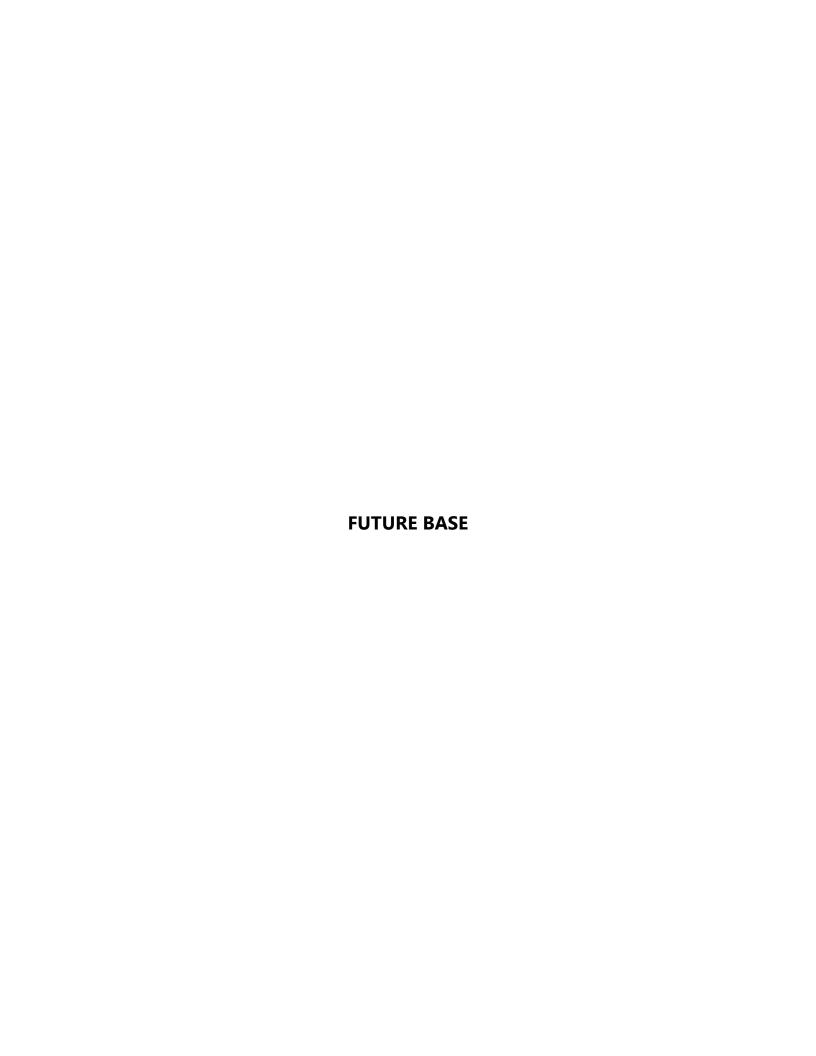
APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	1.00	32	1,600	0.020 *	N-S(1):	0.195
	TH	0.00	0	0	0.000	N-S(2):	0.264 *
	LT	0.00	0	0	0.000	E-W(1):	0.248 *
Westbound	RT	0.00	7	0	0.000	E-W(2):	0.087
	TH	2.00	236	3,200	0.076		
	LT	1.00	53	1,600	0.033 *	V/C:	0.512
Northbound	RT	1.00	70	1,600	0.027	Lost Time:	0.100
	TH	0.06	19	97	0.195	ITS:	-0.070
	LT	1.94	605	2,482	0.244 *		
Eastbound	RT	2.00	1,079	3,200	0.215 *	ICU:	0.542
	TH	2.00	613	3,200	0.192		
	LT	1.00	18	1,600	0.011	LOS:	Α

Project Title: Park Century School Intersection: 8 - Main St & Culver Bl Description: Existing plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	1.00	137	1,600	0.046	N-S(1):	0.133 *
	TH	0.02	4	32	0.127	N-S(2):	0.128
	LT	0.98	199	1,568	0.127 *	E-W(1):	0.475 *
Westbound	RT	0.00	47	0	0.000	E-W(2):	0.347
	TH	2.00	812	3,200	0.268		
	LT	1.00	10	1,600	0.006 *	V/C:	0.608
Northbound	RT	0.00	3	0	0.000	Lost Time:	0.100
	TH	1.00	5	1,600	0.006 *	ITS:	-0.070
	LT	0.00	1	1,600	0.001		
Eastbound	RT	0.00	0	0	0.000	ICU:	0.638
	TH	2.00	1,501	3,200	0.469 *		
	LT	1.00	127	1,600	0.079	LOS:	В







I/S #:

PROJECT TITLE: Park Century School

North-South Street: Robertson BI East-West Street: National BI

Scenario: Future Base

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

			AM			PM	
	No. of Phases			4			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0	SB	0	NB 0	SB	0
	ATSAC-1 or ATSAC+ATCS-2?	EB 0	WB	3 2	EB 0	WB	3 2
	Override Capacity			0			0
			No. of	Lane		No. of	Lane
	MOVEMENT	Volume	Lanes	Volume	Volume	Lanes	Volume
	Left	73	1	73	35	1	35
Ę	← Left-Through		0			0	
NORTHBOUND	↑ Through	749	1	404	549	1	327
₩	Through-Right		1			1	
₽.	' Right	58	0	58	105	0	105
2	Left-Through-Right		0			0	
	Left-Right		0			0	
	√ Left	611	2	336	703	2	387
2	Left-Through	011	0	000	700	0	307
2	Through	1029	1	582	1020	1	606
Ě	→ Through-Right		1			1	
SOUTHBOUND	ر Right	135	0	135	191	0	191
Į į	← Left-Through-Right		0			0	
0,	∠ Left-Right		0			0	
	1 1	0.47	4	0.47	407	4	407
Ω	J Left→ Left-Through	247	1 0	247	127	1 0	127
N S	→ Through	513	1	376	925	1	508
90	→ Through-Right	0.10	1	0/0	020	1	000
STI	Right	239	0	239	91	0	91
EASTBOUND	→ Left-Through-Right		0			0	
_	-{ Left-Right		0			0	
					1		
۵	✓ Left	162	1	162	95	1	95
3		127	0 1	427	266	0 1	266
) Q	← Through ← Through-Right	437	0	437	200	0	266
STE	Right	485	1	149	307	1	0
WESTBOUND	Left-Through-Right	400	0	140	007	0	J
	├ Left-Right		Ö			Ō	
		٨	orth-South:	740	^	lorth-South:	714
	CRITICAL VOLUMES		East-West:	684		East-West:	603
			SUM:	1424		SUM:	1317
	VOLUME/CAPACITY (V/C) RATIO:			1.036			0.958
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.936			0.858
	LEVEL OF SERVICE (LOS):			Е			D
	(200)			-			





I/S #:

PROJECT TITLE: Park Century School

North-South Street: National BI East-West Street: Venice BI

Scenario: Future Base

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

		АМ				PM			
	No. of Phases			4			4		
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0.5	0			0		
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0 EB 0	SB WB	0	NB 0 EB 0	SB WB	0		
	ATSAC-1 or ATSAC+ATCS-2?	EB 0	WD	0 2	EB 0	WD	2		
	Override Capacity			0			0		
	MOVEMENT		No. of	Lane		No. of	Lane		
	MOVEMENT	Volume	Lanes	Volume	Volume	Lanes	Volume		
۵	Left	311	1	311	281	1	281		
N S	← Left-Through		0		0.40	0	400		
NORTHBOUND	↑ Through	738	1	428	649	1	420		
ᄩ	Through-Right	447	1	447	400	1	400		
R E	Right	117	0	117	190	0	190		
ĭ	Left-Through-Right Left-Right		0 0			0 0			
	Leit-Kigiit		U			U			
	√ Left	131	1	131	172	1	172		
SOUTHBOUND	→ Left-Through		0			0			
	↓ Through	462	1	284	662	1	368		
里	← Through-Right		1			1			
5	ب Right	105	0	105	73	0	73		
000	← Left-Through-Right		0			0			
0,			0			0			
	∫ Left	192	2	106	251	2	138		
₽	→ Left-Through	192	0	100	231	0	130		
EASTBOUND	→ Through	1542	3	514	1684	3	561		
BO	→ Through-Right		0	• • • • • • • • • • • • • • • • • • • •		0	• • • • • • • • • • • • • • • • • • • •		
ST	Right	356	1	201	268	1	128		
EA	→ Left-Through-Right		0			0			
	- ≺ Left-Right		0			0			
		400		400	140		4.40		
۵	✓ Left	103	1	103	149	1 0	149		
S		1245	0 3	415	1551	0 3	517		
30	↑ Through-Right	1240	0	413	1331	0	317		
STI	Right	108	1	43	116	1	30		
WESTBOUND	Left-Through-Right		0	.5		0			
	├ Left-Right		0			0			
		N	orth-South:	595	٨	lorth-South:	649		
	CRITICAL VOLUMES		East-West:	617		East-West:	710		
			SUM:	1212		SUM:	1359		
	VOLUME/CAPACITY (V/C) RATIO:			0.881			0.988		
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.781			0.888		
	LEVEL OF SERVICE (LOS):			С			D		
V/									





I/S #:

PROJECT TITLE: Park Century School

North-South Street: Robertson BI East-West Street: Venice BI

Scenario: Future Base

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

			АМ			PM	
	No. of Phases			4			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	NB 0	SB	1	NB 0	SB	1
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	EB 0	ЗВ WВ	0	EB 0	ЗВ WВ	0
	ATSAC-1 or ATSAC+ATCS-2?			2			2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
	↑ Left	148	1	148	97	1	97
9	↓ Left-Through	140	0	140		0	31
8	↑ Through	531	2	266	511	2	256
NORTHBOUND	├ → Through-Right		0			0	
R	Right	84	1	44	222	1	177
8	Left-Through-Right Left-Right		0 0			0	
	Lent-Right		U			0	
	← Left	347	1	347	276	1	276
SOUTHBOUND	→ Left-Through		0			0	
30	Through	469	1	469	262	1	262
ᄩ	✓ Through-Right✓ Right	422	0 1	312	431	0 1	343
OG.	← Left-Through-Right	422	0	312	431	0	343
တိ	↓ Left-Right		0			0	
۵	→ Left → Left-Through	400	2	220	320	2	176
S	→ Left-Through→ Through	1662	0 3	554	1728	0 3	576
EASTBOUND	→ Through-Right	1002	0	004	1720	0	010
ST	Right	99	1	25	101	1	53
EA	Left-Through-Right		0			0	
	Left-Right		0			0	
	√ Left	80	1	80	90	1	90
2			0			0	
9	← Through	1404	3	468	1689	3	563
WESTBOUND	Through-Right	050	0	77	077	0	400
ES	Right Left-Through-Right	250	1 0	77	277	1 0	139
>	Left-Right		0			0	
	· ·	٨	lorth-South:	735	٨	lorth-South:	
	CRITICAL VOLUMES		East-West:	688		East-West:	739
	VOLUME/CADACITY (1/O) DATIO		SUM:	1423		SUM:	
	VOLUME/CAPACITY (V/C) RATIO:			1.035			0.973
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.935			0.873
	LEVEL OF SERVICE (LOS):			Е			D

4 - National BI & Washington BI Intersection:

Description: Future Base

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): 3

7 % ITS:

OLA Movements: FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	96	0	0.000	N-S(1):	0.275
	TH	2.00	707	3,200	0.251 *	N-S(2):	0.333 *
	LT	2.00	115	2,560	0.045	E-W(1):	0.375
Westbound	RT	0.00	312	0	0.000	E-W(2):	0.405 *
	TH	3.00	1,212	4,800	0.318 *		
	LT	1.00	252	1,600	0.158	V/C:	0.738
Northbound	RT	1.00	50	1,600	0.000	Lost Time:	0.100
	TH	2.00	736	3,200	0.230	ITS:	-0.070
	LT	2.00	211	2,560	0.082 *		
Eastbound	RT	1.00	232	1,600	0.104	ICU:	0.768
	TH	2.00	695	3,200	0.217		
	LT	1.00	139	1,600	0.087 *	LOS:	С

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	79	0	0.000	N-S(1):	0.318
	TH	2.00	848	3,200	0.290 *	N-S(2):	0.376 *
	LT	2.00	205	2,560	0.080	E-W(1):	0.456 *
Westbound	RT	0.00	167	0	0.000	E-W(2):	0.271
	TH	3.00	616	4,800	0.163		
	LT	1.00	172	1,600	0.108 *	V/C:	0.832
Northbound	RT	1.00	184	1,600	0.061	Lost Time:	0.100
	TH	2.00	760	3,200	0.238	ITS:	-0.070
	LT	2.00	219	2,560	0.086 *		
Eastbound	RT	1.00	325	1,600	0.160	ICU:	0.862
	TH	2.00	1,113	3,200	0.348 *		
	LT	1.00	172	1,600	0.108	LOS:	D

^{* -} Denotes critical movement

5 - Landmark St & Washington Bl Intersection:

Description: Future Base

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): 3

ITS: 7 %

OLA Movements: FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.007
	TH	0.00	0	0	0.000 *	N-S(2):	0.048 *
	LT	0.00	0	0	0.000	E-W(1):	0.414
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.452 *
	TH	2.00	1,446	3,200	0.452 *		
	LT	1.00	108	1,600	0.068	V/C:	0.500
Northbound	RT	1.00	65	1,600	0.007	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	77	1,600	0.048 *		
Eastbound	RT	0.00	130	0	0.000	ICU:	0.530
	TH	2.00	978	3,200	0.346		
	LT	0.00	0	0	0.000 *	LOS:	Α

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.051 *
	TH	0.00	0	0	0.000	N-S(2):	0.049
	LT	0.00	0	0	0.000 *	E-W(1):	0.510 *
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.256
	TH	2.00	815	3,200	0.255		
	LT	1.00	68	1,600	0.043 *	V/C:	0.561
Northbound	RT	1.00	115	1,600	0.051 *	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	78	1,600	0.049		
Eastbound	RT	0.00	52	0	0.000	ICU:	0.591
	TH	2.00	1,441	1,600	0.467 *		
	LT	0.00	1	1,600	0.001	LOS:	Α

^{* -} Denotes critical movement

Intersection: 6 - Robertson BI & Washington BI

Description: Future Base

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): 3

ITS: 7 %

OLA Movements: FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	191	1,600	0.067	N-S(1):	0.323 *
	TH	1.00	273	1,600	0.171	N-S(2):	0.192
	LT	1.00	155	1,600	0.097 *	E-W(1):	0.352
Westbound	RT	0.00	254	0	0.000	E-W(2):	0.558 *
	TH	2.00	1,199	3,200	0.454 *		
	LT	1.00	78	1,600	0.049	V/C:	0.881
Northbound	RT	1.00	85	1,600	0.029	Lost Time:	0.100
	TH	1.00	362	1,600	0.226 *	ITS:	-0.070
	LT	1.00	34	1,600	0.021		
Eastbound	RT	0.00	86	0	0.000	ICU:	0.911
	TH	2.00	882	3,200	0.303		
	LT	1.00	167	1,600	0.104 *	LOS:	E

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	100	1,600	0.000	N-S(1):	0.255 *
	TH	1.00	247	1,600	0.154	N-S(2):	0.177
	LT	1.00	116	1,600	0.073 *	E-W(1):	0.441
Westbound	RT	0.00	180	0	0.000	E-W(2):	0.491 *
	TH	2.00	758	3,200	0.293 *		
	LT	1.00	75	1,600	0.047	V/C:	0.746
Northbound	RT	1.00	81	1,600	0.027	Lost Time:	0.100
	TH	1.00	291	1,600	0.182 *	ITS:	-0.070
	LT	1.00	37	1,600	0.023		
Eastbound	RT	0.00	93	0	0.000	ICU:	0.776
	TH	2.00	1,167	3,200	0.394		
	LT	1.00	317	1,600	0.198 *	LOS:	С

^{* -} Denotes critical movement

Intersection: 7 - Washington BI & Culver BI

Description: Future Base

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): 3

ITS: 7 %

OLA Movements: FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	5	1,600	0.003 *	N-S(1):	0.429
	TH	0.00	0	0	0.000	N-S(2):	0.540 *
	LT	0.00	0	0	0.000	E-W(1):	0.252 *
Westbound	RT	0.00	3	0	0.000	E-W(2):	0.104
	TH	2.00	243	3,200	0.077		
	LT	1.00	31	1,600	0.019 *	V/C:	0.792
Northbound	RT	1.00	73	1,600	0.036	Lost Time:	0.100
	TH	0.16	108	252	0.429	ITS:	-0.070
	LT	1.84	1,266	2,359	0.537 *		
Eastbound	RT	2.00	859	3,200	0.000	ICU:	0.822
	TH	2.00	744	3,200	0.233 *		
	LT	1.00	43	1,600	0.027	LOS:	D

Date/Time:	PM PEAK HOUR
Date/Time:	PINI PEAN HUUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	35	1,600	0.022 *	N-S(1):	0.276
	TH	0.00	0	0	0.000	N-S(2):	0.367 *
	LT	0.00	0	0	0.000	E-W(1):	0.296 *
Westbound	RT	0.00	24	0	0.000	E-W(2):	0.138
	TH	2.00	342	3,200	0.114		
	LT	1.00	31	1,600	0.019 *	V/C:	0.663
Northbound	RT	1.00	93	1,600	0.048	Lost Time:	0.100
	TH	0.07	29	105	0.276	ITS:	-0.070
	LT	1.93	855	2,476	0.345 *		
Eastbound	RT	2.00	1,200	3,200	0.202	ICU:	0.693
	TH	2.00	885	3,200	0.277 *		
	LT	1.00	38	1,600	0.024	LOS:	В

^{* -} Denotes critical movement

Project Title: Park Century School Intersection: 8 - Main St & Culver Bl

Description: Future Base

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	154	1,600	0.030	N-S(1):	0.060 *
	TH	0.00	0	0	0.000	N-S(2):	0.030
	LT	1.00	94	1,600	0.059 *	E-W(1):	0.490
Westbound	RT	0.00	101	0	0.000	E-W(2):	0.604 *
	TH	2.00	1,407	3,200	0.471 *		
	LT	1.00	1	1,600	0.001	V/C:	0.664
Northbound	RT	0.00	1	0	0.000	Lost Time:	0.100
	TH	1.00	0	1,600	0.001 *	ITS:	-0.070
	LT	0.00	0	0	0.000		
Eastbound	RT	0.00	1	0	0.000	ICU:	0.694
	TH	2.00	1,563	3,200	0.489		
	LT	1.00	212	1,600	0.133 *	LOS:	В
				•			

Date/Time:	PM PEAK HOUR

ADDDOACH	N / N / T	LANES	VOLUME	CADACITY	V/C	ICI I ANIA	LVCIC
APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	201	1,600	0.091	N-S(1):	0.140 *
	TH	0.00	0	0	0.000	N-S(2):	0.091
	LT	1.00	222	1,600	0.139 *	E-W(1):	0.590 *
Westbound	RT	0.00	72	0	0.000	E-W(2):	0.447
	TH	2.00	1,135	3,200	0.377		
	LT	1.00	5	1,600	0.003 *	V/C:	0.730
Northbound	RT	0.00	0	0	0.000	Lost Time:	0.100
	TH	1.00	2	1,600	0.001 *	ITS:	-0.070
	LT	0.00	0	0	0.000		
Eastbound	RT	0.00	0	0	0.000	ICU:	0.760
	TH	2.00	1,877	3,200	0.587 *		
	LT	1.00	112	1,600	0.070	LOS:	С

^{* -} Denotes critical movement





PROJECT TITLE: Park Century School

North-South Street: Robertson BI East-West Street: National BI

Scenario: Future Base

Count Date: 1/0/1900 Analyst: <Fehr & Peers>

			MD					
	No. of Phases			4				
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0				
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0	SB	0				
		EB 0	WB	3				
	ATSAC-1 or ATSAC+ATCS-2?			2				
	Override Capacity		No. of	0 Lana				
	MOVEMENT	Volume	Lanes	Lane Volume				
	↑ Left	42	1	42				
Q	← Left-Through	12	0	'-				
nc	↑ Through	543	1	296				
<u>B</u>	↑ Through-Right	0.0	1					
Ė	Right	48	0	48				
NORTHBOUND	← Left-Through-Right	-	0					
Z	Left-Right		0					
Q	← ⊯ Left	681	2	375				
			0					
90	↓ Through	878	1	530				
ᄩ	← Through-Right	400	1	400				
SOUTHBOUND	→ Right	182	0	182				
SO	← Left-Through-Right ↓ Left-Right		0 0					
	Leit-Night		· ·					
	Ĵ Left	163	1	163				
P	→ Left-Through		0					
EASTBOUND	→ Through	816	1	467				
<u>B</u> .	→ Through-Right		1					
LS ₁	Right	118	0	118				
E/	Left-Through-Right		0					
	-		0					
	√ Left	100	1	100				
9	√ Left-Through	100	0	100				
BOUND	← Through	292	1	292				
BC	← Through-Right	202	0	202				
	Right	296	1	0				
WEST	Left-Through-Right		0					
	├─ Left-Right		0					
		٨	lorth-South:	671				
	CRITICAL VOLUMES		East-West:	567				
			SUM:	1238				
	VOLUME/CAPACITY (V/C) RATIO:							
V.	/C LESS ATSAC/ATCS ADJUSTMENT:			0.800				
	LEVEL OF SERVICE (LOS):			D				





PROJECT TITLE: Park Century School

North-South Street: National BI

Scenario: Future Base
Count Date: 1/0/1900

Analyst: <Fehr & Peers>

East-West Street: Venice BI

	Count Date: 1/0/1900		,a., o	<pre><fenr &="" peers<="" pre=""></fenr></pre>
			MD	
	No. of Phases			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0	SB	0
	ATSAC-1 or ATSAC+ATCS-2?	EB 0	WB	0 2
	Override Capacity			0
			No. of	Lane
	MOVEMENT	Volume	Lanes	Volume
	<u> </u>	280	1	280
NORTHBOUND	← Left-Through		0	
l g	↑ Through	635	1	389
里	├ Through-Right		1	
F.	Right	142	0	142
9	Left-Through-Right		0	
	Left-Right		0	
	√k Left	202	1	202
9	Left-Through	202	0	202
	Through	620	1	342
SOUTHBOUND	← Through-Right	020	1	042
l	Right	63	0	63
٥	← Left-Through-Right		0	
S	← Left-Right		0	
	Left	144	2	79
Į	→ Left-Through	4500	0	500
ğ	→ Through → Through-Right	1523	3 0	508
EASTBOUND	Right	341	1	201
NAS	Left-Through-Right	341	0	201
"	→ Left-Right		0	
	*			
	✓ Left	152	1	152
2			0	
0	← Through	1315	3	438
<u> </u>	Through-Right	400	0	00
WESTBOUN	Right Left-Through-Right	123	1 0	22
>	Left-Right		0	
	ψ — 	٨	lorth-South:	622
	CRITICAL VOLUMES	,	East-West:	660
			SUM:	1282
	VOLUME/CAPACITY (V/C) RATIO:			0.932
ν	//C LESS ATSAC/ATCS ADJUSTMENT:			0.832
	LEVEL OF SERVICE (LOS):			D





PROJECT TITLE: Park Century School

North-South Street: Robertson BI East-West Street: Venice BI

Scenario: Future Base

Count Date: 1/0/1900 Analyst: <Fehr & Peers>

	Count Date. 1/0/1900		Allalyst.	
			MD	
	No. of Phases			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			1
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0	SB	0
	Right furns: FREE-1, NRTOR-2 or OLA-3?	EB 0	WB	0
	ATSAC-1 or ATSAC+ATCS-2?			2
	Override Capacity			0
			No. of	Lane
	MOVEMENT	Volume	Lanes	Volume
_	↑ Left	97	1	97
2	← Left-Through	0,	0	0.
Ď	↑ Through	395	2	198
ВС	_	393	0	190
王	Through-Right	400		00
R	Right	136	1	90
NORTHBOUND	Left-Through-Right		0	
	Left-Right		0	
Ω	← Left	373	1	373
SOUTHBOUND			0	
Ö	↓ Through	350	1	350
<u> </u>	← Through-Right		0	
Ę	ب Right	396	1	298
o	← Left-Through-Right		0	
S	→ Left-Right		0	
_	ے Left	359	2	197
P	- / Left-Through		0	
EASTBOUND	→ Through	1520	3	507
ВС	→ Through-Right		0	
ST	Right	92	1	0
Ä	Left-Through-Right		0	
ш	→ Left-Right		0	
			·	
	√ Left	93	1	93
9			0	00
ן בֿ	← Through	1403	3	468
BOUND	← Through-Right	1400	0	700
	Right	285	1	99
WEST	Left-Through-Right	200	0	55
>	Left-Right		0	
	, <u>-01.13.11</u>	Α.	North-South:	571
	CRITICAL VOLUMES	'	East-West:	665
	CITITIONE VOLUMES			1236
	VOLUMEIOADACIEV (VOLUMEIO		SUM:	
	VOLUME/CAPACITY (V/C) RATIO:			0.899
V.	C LESS ATSAC/ATCS ADJUSTMENT:			0.799
	LEVEL OF SERVICE (LOS):			С
	LLVLL OF SERVICE (LOS).			J

Intersection: 4 - National BI & Washington BI

Description: Future Base

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	ICU ANALYSIS		
Southbound	RT	0.00	61	0	0.000	N-S(1):	0.293		
	TH	2.00	848	3,200	0.284 *	N-S(2):	0.359 *		
	LT	2.00	195	2,560	0.076	E-W(1):	0.438 *		
Westbound	RT	0.00	173	0	0.000	E-W(2):	0.264		
	TH	3.00	632	4,800	0.168				
	LT	1.00	183	1,600	0.114 *	V/C:	0.797		
Northbound	RT	1.00	112	1,600	0.013	Lost Time:	0.100		
	TH	2.00	693	3,200	0.217	ITS:	-0.070		
	LT	2.00	193	2,560	0.075 *				
Eastbound	RT	1.00	335	1,600	0.172	ICU:	0.827		
	TH	2.00	1,037	3,200	0.324 *				
	LT	1.00	154	1,600	0.096	LOS:	D		

Intersection: 5 - Landmark St & Washington BI

Description: Future Base

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.035
	TH	0.00	0	0	0.000 *	N-S(2):	0.069 *
	LT	0.00	0	0	0.000	E-W(1):	0.496 *
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.253
	TH	2.00	809	3,200	0.253		
	LT	1.00	70	1,600	0.044 *	V/C:	0.565
Northbound	RT	1.00	91	1,600	0.035	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	111	1,600	0.069 *		
Eastbound	RT	0.00	64	0	0.000	ICU:	0.595
	TH	2.00	1,383	3,200	0.452 *		
	LT	0.00	0	0	0.000	LOS:	Α

Intersection: 6 - Robertson BI & Washington BI

Description: Future Base

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements :

FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	1.00	123	1,600	0.000	N-S(1):	0.210 *
	TH	1.00	267	1,600	0.167	N-S(2):	0.185
	LT	1.00	172	1,600	0.108 *	E-W(1):	0.427 *
Westbound	RT	0.00	185	0	0.000	E-W(2):	0.422
	TH	2.00	677	3,200	0.269		
	LT	1.00	59	1,600	0.037 *	V/C:	0.637
Northbound	RT	1.00	76	1,600	0.029	Lost Time:	0.100
	TH	1.00	163	1,600	0.102 *	ITS:	-0.070
	LT	1.00	29	1,600	0.018		
Eastbound	RT	0.00	65	0	0.000	ICU:	0.667
	TH	2.00	1,182	3,200	0.390 *		
	LT	1.00	245	1,600	0.153	LOS:	В

Intersection: 7 - Washington BI & Culver BI

Description: Future Base

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	1.00	35	1,600	0.022 *	N-S(1):	0.233
	TH	0.00	0	0	0.000	N-S(2):	0.313 *
	LT	0.00	0	0	0.000	E-W(1):	0.252 *
Westbound	RT	0.00	7	0	0.000	E-W(2):	0.112
	TH	2.00	269	3,200	0.086		
	LT	1.00	54	1,600	0.034 *	V/C:	0.565
Northbound	RT	1.00	71	1,600	0.028	Lost Time:	0.100
	TH	0.05	19	82	0.233	ITS:	-0.070
	LT	1.95	727	2,495	0.291 *		
Eastbound	RT	2.00	1,165	3,200	0.218 *	ICU:	0.595
	TH	2.00	624	3,200	0.195		
	LT	1.00	41	1,600	0.026	LOS:	Α

Project Title: Park Century School Intersection: 8 - Main St & Culver Bl

Description: Future Base

 Thru Lane:
 1600 vph
 N-S Split Phase :
 N

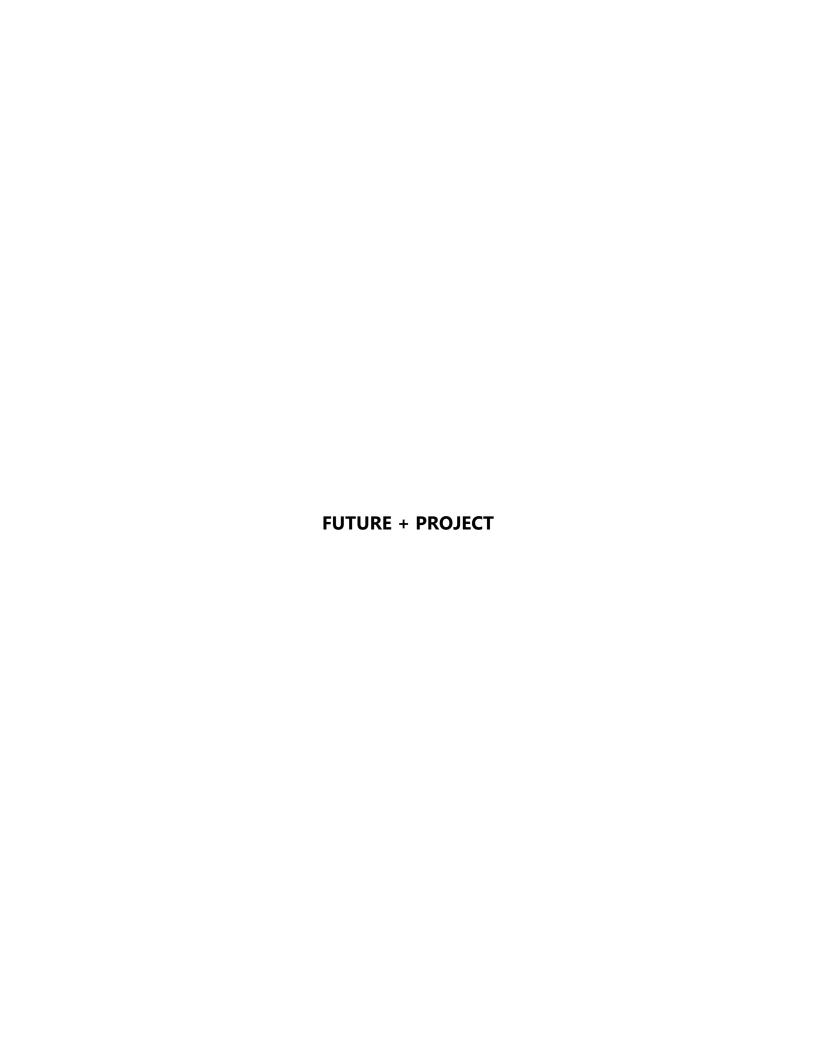
 Left Lane:
 1600 vph
 E-W Split Phase :
 N

 Double Lt Penalty:
 20 %
 Lost Time (% of cycle) :
 10

 ITS:
 7 %
 V/C Round Off (decs.) :
 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSIS	
Southbound	RT	1.00	138	1,600	0.046	N-S(1):	0.133 *
	TH	0.02	4	32	0.127	N-S(2):	0.128
	LT	0.98	199	1,568	0.127 *	E-W(1):	0.510 *
Westbound	RT	0.00	46	0	0.000	E-W(2):	0.395
	TH	2.00	962	3,200	0.315		
	LT	1.00	10	1,600	0.006 *	V/C:	0.643
Northbound	RT	0.00	3	0	0.000	Lost Time:	0.100
	TH	1.00	5	1,600	0.006 *	ITS:	-0.070
	LT	0.00	1	1,600	0.001		
Eastbound	RT	0.00	0	0	0.000	ICU:	0.673
	TH	2.00	1,612	3,200	0.504 *		
	LT	1.00	128	1,600	0.080	LOS:	В







I/S #:

PROJECT TITLE: <Project Name>

North-South Street: Robertson BI East-West Street: National BI

Scenario: Future Plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

			AM			PM	
	No. of Phases			4			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	NB 0	SB	0	NB 0	SB	0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0 EB 0	ЗБ WB	0	NB 0 EB 0	зь WВ	3
	ATSAC-1 or ATSAC+ATCS-2?		2	2		2	2
	Override Capacity			0			0
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Volume	No. of Lanes	Lane Volume
	↑ Left	73	1	73	35	1	35
2	← Left-Through	70	0	70		0	00
NORTHBOUND	↑ Through	749	1	404	549	1	327
Ř	→ Through-Right		1			1	
RT	['] Right	58	0	58	105	0	105
9	Left-Through-Right		0			0	
	Left-Right		0			0	
	√ Left	615	2	338	704	2	387
SOUTHBOUND	├─ Left-Through		0			0	
l g	↓ Through	1029	1	582	1020	1	606
里	→ Through-Right	40-	1			1	
Ž		135	0 0	135	191	0 0	191
SC	Left-Right		0			0	
	25				l		
	Ĵ Left	247	1	247	127	1	127
¥	→ Left-Through	545	0	077	005	0	
l g	→ Through → Through-Right	515	1	377	925	1	508
STE	Right	239	0	239	91	0	91
EASTBOUND	Left-Through-Right		0			0	٠.
_	-		0			0	
	I C 1.4	400		400	1 05		0.5
Ω.	✓ Left ✓ Left-Through	162	1 0	162	95	1 0	95
WESTBOUND	← Through	439	1	439	267	1	267
BG	Through-Right		0			0	
EST	Right	487	1	149	308	1	0
Š	Left-Through-Right		0			0	
	├ Left-Right	Α.	0 lorth-South:	742	Α.	0 lorth-South:	714
	CRITICAL VOLUMES	^	East-West:	686	^	East-West:	603
			SUM:	1428		SUM:	1317
_	VOLUME/CAPACITY (V/C) RATIO:			1.039			0.958
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.939			0.858
	LEVEL OF SERVICE (LOS):			E			D
	, /						





I/S #:

PROJECT TITLE: <Project Name>

North-South Street: National BI East-West Street: Venice BI

Scenario: Future Plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

			АМ			PM	
	No. of Phases			4			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	A/D 0	0.5	0	A/D 0	0.5	0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0 EB 0	SB WB	0	NB 0 EB 0	SB WB	0
	ATSAC-1 or ATSAC+ATCS-2?	LD	VV D=-	2	LD	W <i>D</i>	2
	Override Capacity			0			0
	MOVEMENT		No. of	Lane		No. of	Lane
		Volume	Lanes	Volume	Volume	Lanes	Volume
₽	Left Through	311	1 0	311	281	1 0	281
Į	← Left-Through ↑ Through	742	1	431	650	1	421
BC	↑ Through-Right	772	1	701	000	1	721
E	Right	120	0	120	191	0	191
NORTHBOUND	← Left-Through-Right	_	0			0	
Z	Left-Right		0			0	
₽	← Left	131	1	131	172	1	172
5	⇒ Left-Through	467	0	200	663	0 1	200
ВО	↓ Through✓ Through-Right	467	1	286	663	1	368
SOUTHBOUND	Right	105	0	105	73	0	73
00	← Left-Through-Right	.00	0	100		0	. 0
Š	↓ Left-Right		0			0	
0	Left	192	2	106	251	2	138
Į	→ Left-Through	4540	0	F4.4	4004	0 3	504
EASTBOUND	→ Through → Through-Right	1542	3 0	514	1684	0	561
) TE	Right	356	1	201	268	1	128
l ĕ	Left-Through-Right	000	0	20.	200	0	.20
∥ "	→ Left-Right		0			0	
					_		
۵	✓ Left	105	1	105	150	1	150
∥ S		1245	0 3	415	1551	0 3	517
) 0 0	← Through ← Through-Right	1240	3 0	413	1001	ა 0	517
STE	Right	108	1	43	116	1	30
WESTBOUND	Left-Through-Right	100	0	.0		0	- 00
	├ Left-Right		0			0	
		٨	lorth-South:	597	٨	lorth-South:	649
	CRITICAL VOLUMES		East-West:	619		East-West:	711
	VOLUME (OADACITY (1//O) DATIO		SUM:	1216		SUM:	1360
	VOLUME/CAPACITY (V/C) RATIO:			0.884			0.989
V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.784			0.889
	LEVEL OF SERVICE (LOS):			С			D





I/S #:

PROJECT TITLE: <Project Name>

North-South Street: Robertson BI East-West Street: Venice BI

Scenario: Future Plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers> Date: <date>

No. of Phases Ngh 1				АМ			PM	
Right Turns: FREE-1, NRTOR-2 or OLA-3? ATSAC-1 or ATSAC+ATCS-2? Override Capacity No. of EB- O WB- O EB- O WB- O EB- O WB- O EB- O WB- O EB- O O O O O O O O O								
Right Units: FREE-1, NRTOR-2 or OLA-3' EB- 0 WB- 0 EB- 0 WB- 0 2 2 2 2 2 0 0 0 0		Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	ND 0	0.0		ND 0	0.0	
ATSAC-1 or ATSAC-ATCS-2?		Right Turns: FREE-1, NRTOR-2 or OLA-3?		_			_	
No. of Lane Volume Lanes Volume Volume Volume Lanes Volume		ATSAC-1 or ATSAC+ATCS-2?	Lb 0	VV D=-		LB	WD	
NOVEMENT Volume Lanes Volume Volume Lanes Volume Volume Lanes Volume Care Volume Care		Override Capacity			0			
Colume Lanes Volume Lanes Volu		MOVEMENT						
Column C								
Left-Right 0	₽	i .	150		150	98		98
Left-Right 0	Į	<u> </u>	530		270	514	3	257
Left-Right 0	BC	_	333		210	314	E	201
Left-Right 0	E		84	Ī	44	222	Ī	177
Left-Right 0	∥ Ŗ	_					0	
Company Comp	Z			0			0	
Company Comp								
Corporation	₽		347		347	276	E	276
Corporation	S	I 1	470	0	470	2004	I	004
Corporation	B0		4/8	1 0	4/8	264		264
Corporation	l E	·	422	_	312	431	I	343
Corporation	no O		722		012	401	3 3	040
Colume/Capacity (V/C) Ratio: Columbia (Colume) Colume/Capacity (V/C) Ratio: Columbia (Columbia) Columbia (Colum	Ñ						0	
Colume/Capacity (V/C) Ratio: Columbia (Colume) Colume/Capacity (V/C) Ratio: Columbia (Columbia) Columbia (Colum								
Company Com		1	400		220	320	8 8	176
Company Com	Ĭ		4000		554	4700		570
Company Com	l g	<u> </u>	1662		554	1/28	8 8	5/6
Company Com	∥ STE		101		26	101	Ī	52
Company Com	N. S.		101		20	101	i	52
CRITICAL VOLUMES SUM: 1.044 Sum: 1.04	ш ш			:				
CRITICAL VOLUMES CRITICAL V		*					-	
CRITICAL VOLUMES North-South: East-West: SUM: 748 (888) 1436 North-South: 739 (888) 500 748 (888) 1436 North-South: 739 (888) 500 748 (888) 500 North-South: 739 (888) 500 748 (888) 500 North-South: 739 (888) 500 739 (888) 500 1339 (888			80		80	90		90
CRITICAL VOLUMES North-South: East-West: SUM: 748 (888) 1436 North-South: 739 (888) 500 748 (888) 1436 North-South: 739 (888) 500 748 (888) 500 North-South: 739 (888) 500 748 (888) 500 North-South: 739 (888) 500 739 (888) 500 1339 (888	¥	_	4404			1000	8	
CRITICAL VOLUMES North-South: East-West: SUM: 748 (888) 1436 North-South: 739 (888) 500 748 (888) 1436 North-South: 739 (888) 500 748 (888) 500 North-South: 739 (888) 500 748 (888) 500 North-South: 739 (888) 500 739 (888) 500 1339 (888	l g		1404	:	468	1689	3	563
CRITICAL VOLUMES North-South: East-West: SUM: 748 (888) 1436 North-South: 739 (888) 500 748 (888) 1436 North-South: 739 (888) 500 739 (888) 1436 North-South: 739 (888) 500 739 (888) 500 1339 (888) 500 1339 (888) 500 North-South: 739 (888) 500 1339 (888) 500 1339 (888) 500 North-South: 739 (888) 500 North-South: 73	∥ ji		250	U 1	77	277	U 1	130
CRITICAL VOLUMES North-South: East-West: SUM: 748 (888) 1436 North-South: 739 (888) 500 748 (888) 1436 North-South: 739 (888) 500 739 (888) 1436 North-South: 739 (888) 500 739 (888) 500 1339 (888) 500 1339 (888) 500 North-South: 739 (888) 500 1339 (888) 500 1339 (888) 500 North-South: 739 (888) 500 North-South: 73	∥ Æ	<u> </u>	200	0	11	211	0	138
CRITICAL VOLUMES East-West: 688 East-West: 739 SUM: 1436 SUM: 1339 VOLUME/CAPACITY (V/C) RATIO: 1.044 0.974				_				
SUM: 1436 SUM: 1339 VOLUME/CAPACITY (V/C) RATIO: 1.044 0.974		-	٨	orth-South:	748	۸	lorth-South:	600
VOLUME/CAPACITY (V/C) RATIO: 1.044 0.974	CRITICAL VOLUMES						=	
				SUM:	1436		SUM:	1339
V/C LESS ATSAC/ATCS ADJUSTMENT: 0.944 0.874		VOLUME/CAPACITY (V/C) RATIO:			1.044			0.974
	V/	C LESS ATSAC/ATCS ADJUSTMENT:			0.944			0.874
LEVEL OF SERVICE (LOS):		LEVEL OF SERVICE (LOS):						

Intersection: 4 - National BI & Washington BI

Description: Future plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	104	0	0.000	N-S(1):	0.275
	TH	2.00	707	3,200	0.253 *	N-S(2):	0.336 *
	LT	2.00	115	2,560	0.045	E-W(1):	0.377
Westbound	RT	0.00	312	0	0.000	E-W(2):	0.409 *
	TH	3.00	1,215	4,800	0.318 *		
	LT	1.00	252	1,600	0.158	V/C:	0.745
Northbound	RT	1.00	50	1,600	0.000	Lost Time:	0.100
	TH	2.00	736	3,200	0.230	ITS:	-0.070
	LT	2.00	213	2,560	0.083 *		
Eastbound	RT	1.00	235	1,600	0.105	ICU:	0.775
	TH	2.00	701	3,200	0.219		
	LT	1.00	145	1,600	0.091 *	LOS:	С
				•			

Date/Time:	PM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	81	0	0.000	N-S(1):	0.318
	TH	2.00	848	3,200	0.290 *	N-S(2):	0.376 *
	LT	2.00	205	2,560	0.080	E-W(1):	0.456 *
Westbound	RT	0.00	167	0	0.000	E-W(2):	0.272
	TH	3.00	617	4,800	0.163		
	LT	1.00	172	1,600	0.108 *	V/C:	0.832
Northbound	RT	1.00	184	1,600	0.061	Lost Time:	0.100
	TH	2.00	760	3,200	0.238	ITS:	-0.070
	LT	2.00	219	2,560	0.086 *		
Eastbound	RT	1.00	326	1,600	0.161	ICU:	0.862
	TH	2.00	1,115	3,200	0.348 *		
	LT	1.00	174	1,600	0.109	LOS:	D

^{* -} Denotes critical movement

Intersection: 5 - Landmark St & Washington BI

Description: Future plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.013
	TH	0.00	0	0	0.000 *	N-S(2):	0.058 *
	LT	0.00	0	0	0.000	E-W(1):	0.427
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.452 *
	TH	2.00	1,446	3,200	0.452 *		
	LT	1.00	120	1,600	0.075	V/C:	0.510
Northbound	RT	1.00	81	1,600	0.013	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	93	1,600	0.058 *		
Eastbound	RT	0.00	148	0	0.000	ICU:	0.540
	TH	2.00	978	3,200	0.352		
	LT	0.00	0	0	0.000 *	LOS:	Α

D - 4 - /T!	DM DEAK HOUD	
Date/Time:	PM PEAK HOUR	

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
7.1.1.1.07.1011		27 11 12 0	70201112	O7 (1 7 (O11 1	.,,	1007	
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.053 *
	TH	0.00	0	0	0.000 *	N-S(2):	0.053 *
	LT	0.00	0	0	0.000 *	E-W(1):	0.512 *
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.256
	TH	2.00	815	3,200	0.255		
	LT	1.00	71	1,600	0.044 *	V/C:	0.565
Northbound	RT	1.00	121	1,600	0.053 *	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	84	1,600	0.053 *		
Eastbound	RT	0.00	57	0	0.000	ICU:	0.595
	TH	2.00	1,441	1,600	0.468 *		
	LT	0.00	1	1,600	0.001	LOS:	Α

^{* -} Denotes critical movement

Intersection: 6 - Robertson BI & Washington BI

Description: Future plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	191	1,600	0.067	N-S(1):	0.330 *
	TH	1.00	273	1,600	0.171	N-S(2):	0.192
	LT	1.00	166	1,600	0.104 *	E-W(1):	0.354
Westbound	RT	0.00	264	0	0.000	E-W(2):	0.563 *
	TH	2.00	1,205	3,200	0.459 *		
	LT	1.00	78	1,600	0.049	V/C:	0.893
Northbound	RT	1.00	85	1,600	0.029	Lost Time:	0.100
	TH	1.00	362	1,600	0.226 *	ITS:	-0.070
	LT	1.00	34	1,600	0.021		
Eastbound	RT	0.00	86	0	0.000	ICU:	0.923
	TH	2.00	890	3,200	0.305		
	LT	1.00	167	1,600	0.104 *	LOS:	E

Date/Time:	PM PEAK HOUR
Date/Time:	PINI PEAN HUUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	100	1,600	0.000	N-S(1):	0.256 *
	TH	1.00	247	1,600	0.154	N-S(2):	0.177
	LT	1.00	119	1,600	0.074 *	E-W(1):	0.441
Westbound	RT	0.00	183	0	0.000	E-W(2):	0.493 *
	TH	2.00	760	3,200	0.295 *		
	LT	1.00	75	1,600	0.047	V/C:	0.749
Northbound	RT	1.00	81	1,600	0.027	Lost Time:	0.100
	TH	1.00	291	1,600	0.182 *	ITS:	-0.070
	LT	1.00	37	1,600	0.023		
Eastbound	RT	0.00	93	0	0.000	ICU:	0.779
	TH	2.00	1,169	3,200	0.394		
	LT	1.00	317	1,600	0.198 *	LOS:	С

^{* -} Denotes critical movement

Intersection: 7 - Washington BI & Culver BI

Description: Future plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
_							
Southbound	RT	1.00	5	1,600	0.003 *	N-S(1):	0.431
	TH	0.00	0	0	0.000	N-S(2):	0.542 *
	LT	0.00	0	0	0.000	E-W(1):	0.252 *
Westbound	RT	0.00	3	0	0.000	E-W(2):	0.104
	TH	2.00	243	3,200	0.077		
	LT	1.00	31	1,600	0.019 *	V/C:	0.794
Northbound	RT	1.00	73	1,600	0.036	Lost Time:	0.100
	TH	0.16	108	250	0.431	ITS:	-0.070
	LT	1.84	1,272	2,360	0.539 *		
Eastbound	RT	2.00	867	3,200	0.001	ICU:	0.824
	TH	2.00	744	3,200	0.233 *		
	LT	1.00	43	1,600	0.027	LOS:	D

Date/Time:	PM PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	35	1,600	0.022 *	N-S(1):	0.277
	TH	0.00	0	0	0.000	N-S(2):	0.368 *
	LT	0.00	0	0	0.000	E-W(1):	0.296 *
Westbound	RT	0.00	24	0	0.000	E-W(2):	0.138
	TH	2.00	342	3,200	0.114		
	LT	1.00	31	1,600	0.019 *	V/C:	0.664
Northbound	RT	1.00	93	1,600	0.048	Lost Time:	0.100
	TH	0.07	29	105	0.277	ITS:	-0.070
	LT	1.93	857	2,476	0.346 *		
Eastbound	RT	2.00	1,202	3,200	0.203	ICU:	0.694
	TH	2.00	885	3,200	0.277 *		
	LT	1.00	38	1,600	0.024	LOS:	В

^{* -} Denotes critical movement

Project Title: Park Century School Intersection: 8 - Main St & Culver Bl Description: Future plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase: Left Lane: Ν 20 % Lost Time (% of cycle): Double Lt Penalty: 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	154	1,600	0.030	N-S(1):	0.062 *
	TH	0.00	0	0	0.000	N-S(2):	0.030
	LT	1.00	97	1,600	0.061 *	E-W(1):	0.491
Westbound	RT	0.00	103	0	0.000	E-W(2):	0.606 *
	TH	2.00	1,412	3,200	0.473 *		
	LT	1.00	1	1,600	0.001	V/C:	0.668
Northbound	RT	0.00	1	0	0.000	Lost Time:	0.100
	TH	1.00	0	1,600	0.001 *	ITS:	-0.070
	LT	0.00	0	0	0.000		
Eastbound	RT	0.00	1	0	0.000	ICU:	0.698
	TH	2.00	1,568	3,200	0.490		
	LT	1.00	212	1,600	0.133 *	LOS:	В

LIAI	Г		417		v	U	1,
	LIVI	LIAIL	LIAI LF	1 141 1 1-41/	1 M 1 F		PM PEAK HOU

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	201	1,600	0.091	N-S(1):	0.140 *
	TH	0.00	0	0	0.000	N-S(2):	0.091
	LT	1.00	223	1,600	0.139 *	E-W(1):	0.590 *
Westbound	RT	0.00	73	0	0.000	E-W(2):	0.448
	TH	2.00	1,137	3,200	0.378		
	LT	1.00	5	1,600	0.003 *	V/C:	0.730
Northbound	RT	0.00	0	0	0.000	Lost Time:	0.100
	TH	1.00	2	1,600	0.001 *	ITS:	-0.070
	LT	0.00	0	0	0.000		
Eastbound	RT	0.00	0	0	0.000	ICU:	0.760
	TH	2.00	1,878	3,200	0.587 *		
	LT	1.00	112	1,600	0.070	LOS:	С

^{* -} Denotes critical movement





PROJECT TITLE: Park Century School

North-South Street: Robertson BI East-West Street: National BI

Scenario: Future plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers>

			MD	
	No. of Phases			4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	<i>NB</i> 0	SB	0
	•	<i>EB</i> 0	WB	3
	ATSAC-1 or ATSAC+ATCS-2?			2
	Override Capacity			0
	MOVEMENT		No. of	Lane
1	<u> </u>	Volume	Lanes	Volume
₽	↑ Left	42	1	42
5	← Left-Through	5.40	0	
စ္က	↑ Through	543	1	296
풀	Through-Right		1	
ᅜ	Right	48	0	48
NORTHBOUND	Left-Through-Right		0	
	Left-Right		0	
	4 2 1 . 6	1 00.4		
9	Left Through	684	2	376
5	⇒ Left-Through	070	0	500
SOUTHBOUND	Through	878	1	530
王	← Through-Right → Right → Right	400	1	400
2	→ Right	182	0	182
SO	← Left-Through-Right		0 0	
	← Left-Right		U	
	Left	163	1	163
우	→ Left-Through	100	Ö	100
5	→ Through	817	1	468
80	→ Through-Right		1	400
EASTBOUND	Right	118	0	118
ă l	Left-Through-Right		0	
ш	∠ Left-Right		0	
	·			
	✓ Left	100	1	100
BOUND			0	
S	← Through	293	1	293
	← Through-Right		0	
င္သ	Right	297	1	0
WEST	Left-Through-Right		0	
	├─ Left-Right		0	
		^	lorth-South:	672
	CRITICAL VOLUMES		East-West:	568
			SUM:	1240
	VOLUME/CAPACITY (V/C) RATIO:			0.902
V	C LESS ATSAC/ATCS ADJUSTMENT:			0.802
	LEVEL OF SERVICE (LOS):			
	LEVEL OF SERVICE (LUS):			D



I/S #:

PROJECT TITLE: Park Century School

North-South Street: National BI East-West Street: Venice BI

Scenario: Future plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers>

		MD				
	No. of Phases			4		
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0		
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0	SB	0		
		EB 0	WB	0		
	ATSAC-1 or ATSAC+ATCS-2? Override Capacity			2		
			No. of	Lane		
	MOVEMENT	Volume	Lanes	Volume		
D	Left	280	1	280		
Z	← Left-Through		0			
õ	↑ Through	637	1	390		
뿔	Through-Right		1			
NORTHBOUND	Right	143	0	143		
9	Left-Through-Right		0			
	Left-Right		0			
	≺ Left	202	1	202		
Z	→ Left-Through		0			
9	↓ Through	624	1	344		
9	← Through-Right		1			
E	→ Right	63	0	63		
SOUTHBOUND	← Left-Through-Right		0			
	∠ Left-Right		0			
		144	2	79		
9	→ Left-Through		0	, 0		
Ž	→ Through	1523	3	508		
BC	→ Through-Right		0			
EASTBOUND	Right	341	1	201		
EA	Left-Through-Right		0			
	- ≺ Left-Right		0			
	√ Left	154	1	154		
9	τ Left Left-Through	104	0	154		
BOUND	← Through	1315	3	438		
	← Through-Right	1010	0	100		
ST	, ← Right	123	1	22		
WEST	Left-Through-Right		0			
	├─ Left-Right	_	0	22.		
	CDITICAL VOLUMES	^	lorth-South:	624		
	CRITICAL VOLUMES		East-West: SUM:	662 1286		
	VOLUME/CAPACITY (V/C) RATIO:		SUIVI.	0.935		
V	C LESS ATSAC/ATCS ADJUSTMENT:			0.935 0.835		
•,	LEVEL OF SERVICE (LOS):			0.635 D		



I/S #:

PROJECT TITLE: Park Century School

North-South Street: Robertson BI East-West Street: Venice BI

Scenario: Future plus Project

Count Date: 1/0/1900 Analyst: <Fehr & Peers>

		MD						
	No. of Phases			4				
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			1				
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB 0	SB	0				
		EB 0	WB	0				
	ATSAC-1 or ATSAC+ATCS-2?			2				
	Override Capacity		No. of	Lane				
	MOVEMENT	Volume	Lanes	Volume				
	↑ Left	98	1	98				
P	← Left-Through		0	00				
Ū	↑ Through	399	2	200				
ВС	rinough	399	0	200				
NORTHBOUND	Right	136	1	90				
JR.	_	130	0	90				
ž	Left-Through-Right Left-Right		0					
	Leit-Right	l	U					
	★ Left	373	1	373				
N	↓ Left-Through	0.0	0	0.0				
20	↓ Through	357	1	357				
<u>B</u>	← Through-Right		0					
SOUTHBOUND	√ Right	396	1	298				
O	← Left-Through-Right		0					
Ø	↓ Left-Right		0					
	ر Left	359	2	197				
Z	→ Left-Through		0					
O	→ Through	1520	3	507				
Ř	→ Through-Right		0					
EASTBOUND	Right	93	1	44				
ΕŹ	Left-Through-Right		0					
	- ≺ Left-Right		0					
	✓ Left	02	1	02				
₽	↓ Leπ	93	0	93				
BOUND	✓ Leit-Tirrough — Through	1403	3	160				
30	↑ Through-Right	1403	0	468				
	Right	285	1	99				
WEST	Left-Through-Right	200	0	99				
>	} Left-Right		Ö					
	, y	٨	lorth-South:	573				
	CRITICAL VOLUMES		East-West:	665				
			SUM:	1238				
	VOLUME/CAPACITY (V/C) RATIO:			0.900				
W	/C LESS ATSAC/ATCS ADJUSTMENT:							
"				0.800				
	LEVEL OF SERVICE (LOS):			D				

Intersection: 4 - National BI & Washington BI

Description: Future plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

ADDDOACH	N 4\ /N 4T	LANIC	VOLUME	CADACITY	V//C	ICI I ANIA	LVCIC
APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANALYSI	
Southbound	RT	0.00	67	0	0.000	N-S(1):	0.293
	TH	2.00	848	3,200	0.286 *	N-S(2):	0.362 *
	LT	2.00	195	2,560	0.076	E-W(1):	0.439 *
Westbound	RT	0.00	173	0	0.000	E-W(2):	0.266
	TH	3.00	634	4,800	0.168	, ,	
	LT	1.00	183	1,600	0.114 *	V/C:	0.801
Northbound	RT	1.00	112	1,600	0.013	Lost Time:	0.100
	TH	2.00	693	3,200	0.217	ITS:	-0.070
	LT	2.00	194	2,560	0.076 *		
Eastbound	RT	1.00	337	1,600	0.173	ICU:	0.831
	TH	2.00	1,040	3,200	0.325 *		
	LT	1.00	157	1,600	0.098	LOS:	D

Intersection: 5 - Landmark St & Washington BI

Description: Future plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	0.00	0	0	0.000	N-S(1):	0.037
	TH	0.00	0	0	0.000 *	N-S(2):	0.074 *
	LT	0.00	0	0	0.000	E-W(1):	0.505 *
Westbound	RT	0.00	0	0	0.000	E-W(2):	0.253
	TH	2.00	809	3,200	0.253		
	LT	1.00	79	1,600	0.049 *	V/C:	0.579
Northbound	RT	1.00	99	1,600	0.037	Lost Time:	0.100
	TH	0.00	0	0	0.000	ITS:	-0.070
	LT	1.00	119	1,600	0.074 *		
Eastbound	RT	0.00	77	0	0.000	ICU:	0.609
	TH	2.00	1,383	3,200	0.456 *		
	LT	0.00	0	0	0.000	LOS:	В

Intersection: 6 - Robertson BI & Washington BI

Description: Future plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	123	1,600	0.000	N-S(1):	0.215 *
	TH	1.00	267	1,600	0.167	N-S(2):	0.185
	LT	1.00	180	1,600	0.113 *	E-W(1):	0.429 *
Westbound	RT	0.00	190	0	0.000	E-W(2):	0.425
	TH	2.00	680	3,200	0.272		
	LT	1.00	59	1,600	0.037 *	V/C:	0.644
Northbound	RT	1.00	76	1,600	0.029	Lost Time:	0.100
	TH	1.00	163	1,600	0.102 *	ITS:	-0.070
	LT	1.00	29	1,600	0.018		
Eastbound	RT	0.00	65	0	0.000	ICU:	0.674
	TH	2.00	1,188	3,200	0.392 *		
	LT	1.00	245	1,600	0.153	LOS:	В

Intersection: 7 - Washington BI & Culver BI

Description: Future plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	35	1,600	0.022 *	N-S(1):	0.234
	TH	0.00	0	0	0.000	N-S(2):	0.315 *
	LT	0.00	0	0	0.000	E-W(1):	0.254 *
Westbound	RT	0.00	7	0	0.000	E-W(2):	0.112
	TH	2.00	269	3,200	0.086		
	LT	1.00	54	1,600	0.034 *	V/C:	0.569
Northbound	RT	1.00	71	1,600	0.028	Lost Time:	0.100
	TH	0.05	19	81	0.234	ITS:	-0.070
	LT	1.95	730	2,495	0.293 *		
Eastbound	RT	2.00	1,171	3,200	0.220 *	ICU:	0.599
	TH	2.00	624	3,200	0.195		
	LT	1.00	41	1,600	0.026	LOS:	Α

Project Title: The Boulevards
Intersection: 8 - Main St & Culver BI
Description: Future plus Project

Thru Lane: 1600 vph N-S Split Phase: Ν 1600 vph E-W Split Phase : Left Lane: Ν Lost Time (% of cycle): Double Lt Penalty: 20 % 10 V/C Round Off (decs.): ITS: 7 % 3

OLA Movements : FF Movements:

Date/Time: MD PEAK HOUR

APPROACH	MVMT	LANES	VOLUME	CAPACITY	V/C	ICU ANA	LYSIS
Southbound	RT	1.00	138	1,600	0.046	N-S(1):	0.134 *
	TH	0.02	4	31	0.128	N-S(2):	0.129
	LT	0.98	201	1,569	0.128 *	E-W(1):	0.511 *
Westbound	RT	0.00	47	0	0.000	E-W(2):	0.396
	TH	2.00	964	3,200	0.316		
	LT	1.00	10	1,600	0.006 *	V/C:	0.645
Northbound	RT	0.00	3	0	0.000	Lost Time:	0.100
	TH	1.00	5	1,600	0.006 *	ITS:	-0.070
	LT	0.00	1	1,600	0.001		
Eastbound	RT	0.00	0	0	0.000	ICU:	0.675
	TH	2.00	1,615	3,200	0.505 *		
	LT	1.00	128	1,600	0.080	LOS:	В

APPENDIX C: MEMORANDUM OF UNDERSTANDING





study.

Attachment A

Memorandum Of Understanding For a Traffic Study

This Memorandum Of Understanding (MOU) acknowledges and agrees to all of the City of Culver City requirements and fees for the review of a traffic study for the following project:

Culver City requ	irements and lees for the review of a trainic study for the following project.
Project Name:	Park Century School
Project Address Project Descrip	
	_50 Students / _ 8 Staff
	See Attachment A-1 and Figure 1.
Project Horizon `	ear: Ambient Growth Rate: One (1.0) % Per Year
Directional Distri	
,	ustrating directional distribution percentages at all intersections and driveways.] ntical to the 2005 Park Century School study, shown in Figure 2.
Trip Generation	Rates: ITE Latest Edition / Other:
•	nd daily trip generation rates for each land use]
Land Use:	Private School
AM Trips:	<u>Total In / Total Out</u> 30 / 32
MD Trips:	22 / 16
PM Trips:	<u>8</u> / <u>11</u>
	Trips Generation Calculations2, Table 1 for AM, MD, and PM Trip Generation Calculations.
	of any proposed project analysis, the Traffic Consultant shall:
	a list of related projects from the Planning Division of Culver City and other jurisdictions;
2. Prepar	a draft list of "related projects specific to the proposed project"; and
Obtain project	written approval from the City of the "related projects specific to the proposed
See Table 2 an	
Study Intersection	-
=	ection: See Attachment A-3 and Figure 3 / Jurisdiction:
Residential Stree	ts to be Studied:
No. Stree	Name: See Figure 3 / Limits: / Jurisdiction:
* Gross	loor Area (GFA) shall be as defined in the most recent ITE publication.
	intersections subject to capacity analysis credit for advanced traffic signal
	synchronization. non-signalized intersections to be studied.
	same numbering system for all lists of intersections and figures in the traffic

<u>Indicate</u>	Trip Credits to Be Requested (Amount Subject To City Approval):	Yes	No
1.	Existing Uses:		X
2.	Pass-By Trips:		X
3.	Internal Trip Capture:		X
4.	Transit Oriented Development (TOD)		Χ
5.	Transportation Demand Management (TDM)		Χ

Maps:

The following maps shall be attached to the MOU:

- 1. A map showing the project's trip distribution percentages for each land use (inbound and outbound) at the study intersections and project driveways; and
- 2. A map showing the project's trips at the study intersections and project driveways.

Proposed Traffic Mitigation:

Any proposed traffic mitigation measure shall be listed and accompanied by a drawing of the existing and proposed improvements [including city boundary lines and existing *I* proposed property lines] and plans shall be of a minimum scale of one inch (1") equal to forty feet (40'-0").

Post-Occupancy Traffic Counts:

By signing below, the Property Owner I Developer I Applicant hereby agrees to pay for and submit to the City a post-occupancy traffic count analysis of the development to the satisfaction of the City. The analysis shall determine the amount of actual traffic (motor vehicle, bicycle and pedestrian) generated by the development compared to the ITE trip generation rates. The analysis shall include a traffic count of all onsite driveways taken upon reaching eighty five percent (85.0%) occupancy of the total building gross floor area or within one (1) year of the issuance of the first Temporary Certificate of Occupancy (TCO), as determined by the City. The data shall be used to confirm the findings in the approved traffic study, and shall not result in any additional traffic mitigation measures and/or conditions of approval on the subject project.

Congestion Management Plan (CMP):

This project shall also be subject to all City imposed CMP developer fees if the Planning Commission approval date is on or after the effective date of any City Council imposed CMP developer fees or as may be otherwise imposed by the City.

Fee:

Payment of a fee to the Engineering Division for the City's processing of a traffic study shall be required prior to the City's approval of the MOU. Said fee shall be in accordance with the most recent Fee Schedule as approved by the City Council.

S	ig	na	atı	ır	e	s:

	Property Owner / Applicant:	<u>Developer / Applicant:</u>
Name [Signed]:		
Name [Printed]:	Jennifer Palmer	
rtaine įr miteaj.	Director of Development and	
Title:	Community Affairs	
Company:	Park Century School	
Address:	3939 Landmark Street	
City / State / Zip:	Culver City, CA 90232	
Office:	310-840-0500 ext. 235	()
Fax:	()	_ ()
Cell:	()	()
E-Mail:	jpalmer@parkcenturyschool.org	
	Traffic Consultant:	
Name:	_ John Muggridge	Mike Samuelson
Title:	Principal	Transportation Planner
Company:	Fehr & Peers	Fehr & Peers
Address:	600 Wilshire Blvd, Suite 1050	600 Wilshire Blvd, Suite 1050
City / State / Zip:	Los Angeles, CA 90017	Los Angeles, CA 90017
Office:	(213) 261-3050	(213) 261-3050
Fax:	()	()
Cell:		()
E-Mail:	i mugaridae@fohrandnoors.com	m camualcan@fohrandnoors.com
E-IVIAII.	j.muggridge@fehrandpeers.com	m.samuelson@fehrandpeers.com
Angeles, the uninco	rporated areas of Los Angeles County	offic study are located within the City of Losand/or impact any other public agency [i.e. iewing staff representative from each agency County of Los Angeles:
Name [Signed]:		
Name [Printed]:		_
Title:		
Department:		
	City of Los Angeles:	County of Los Angeles:
Address:		<u> </u>
City / State / Zip:		_
Office:	()	
Fax:	()	_ ()
Cell:	()	()
E-Mail:		

	Other Public Agency:		Other Public Agency:
Name [Signed]: Name [Printed]: Title: Company: Address: City / State / Zip:			Other Fublic Agency.
Office: Fax: Cell:	(·	() () ()
E-Mail:	_		
Approved By:	/		
Property Owner - Ap	plicant	Date	
Develop - Applicant	/	Date	
Traffic Consultant	1	 Date	
Tranic Consultant	l		
City of Culver City		Date	

Note: This MOU shall become valid as of the date of the City's signature and shall expire one (1) year thereafter. If the "administrative draft" of the traffic study has not been filed with the City by the expiration date, this MOU shall also expire and a new MOU filing, fee, review and approval process shall be required.

Project Description:

The Project will expand the Park Century School by 50 students and eight staff. As part of the project, the school will provide staff with subsidized transit passes to encourage transit use. The site plan is illustrated in Figure 1. The project traffic will enter the site from the existing driveway on Landmark Street.

Project Analysis:

Intersection Level of Service

The project will conduct a Level of Service analysis for eight total intersections in the study area, presented in Attachment A-2. All intersections will be analyzed during the morning, midday, and evening peak hour.

The project will conduct a Level of Service analysis for five signalized intersections that lie completely within the City of Culver City using the Intersection Capacity Utilization (ICU) method per the City of Culver City Traffic Study Criteria, July 2012. The project will conduct a Level of Service analysis for three signalized intersections that lie completely within the City of Los Angeles using the Circular 212 Critical Movement Analysis (CMA) per the City of Los Angeles Transportation Impact Study Guidelines, December 2016.

Queuing Analysis, Traffic Management Program and Review

The study will conduct a queuing analysis using the Sim Traffic software to analyze the potential for queuing beyond the school's parking lot, both during the construction period and with the completed project.

Following the queuing analysis, the study will include a Traffic Management Program (TMP), including a discussion of staggered pick-up and drop-off times and pick-up/drop-off procedures. The TMP will address the potential for queuing from early arrivals before the gates are open, and will show the path of travel on the site.

The project team will provide a follow up memorandum on the performance of the TMP, six months after Project occupancy.

Left-Turn Storage Capacity for westbound left at Washington Boulevard & Landmark Street

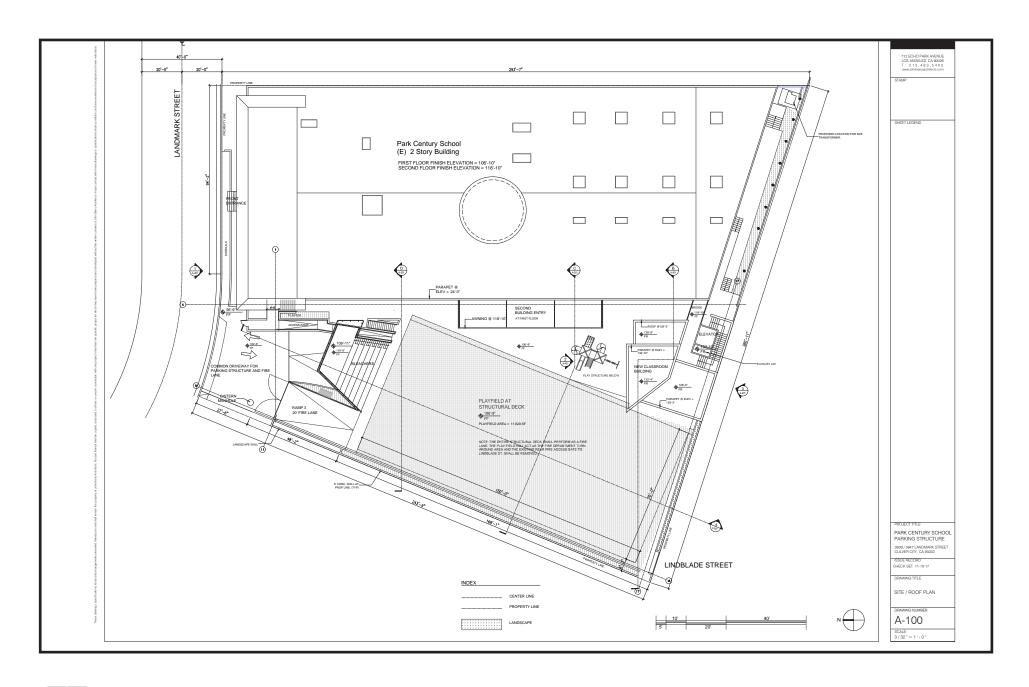
Using the synchro traffic software, the study will analyze if the length of the westbound left-turn pockets on Washington Boulevard is sufficient at Landmark Street. If it is determined that the length is not sufficient for the demand, the analysis will determine the appropriate length for the left-turn pockets.

Bicycle and Pedestrian Connections and TDM Options

The project team will coordinate with the City to include a discussion of bicycle and pedestrian travel options, including information on the proposed Exposition Boulevard to Downtown Bicycle Connection cycle track. The report will note potential TDM options, including programs to encourage biking, walking, and shuttles to that can reduce the number of trips to the project site.

ITS Measures for Washington Boulevard

The project will include as assessment of ITS measures that could potentially improve traffic congestion on Washington Boulevard.





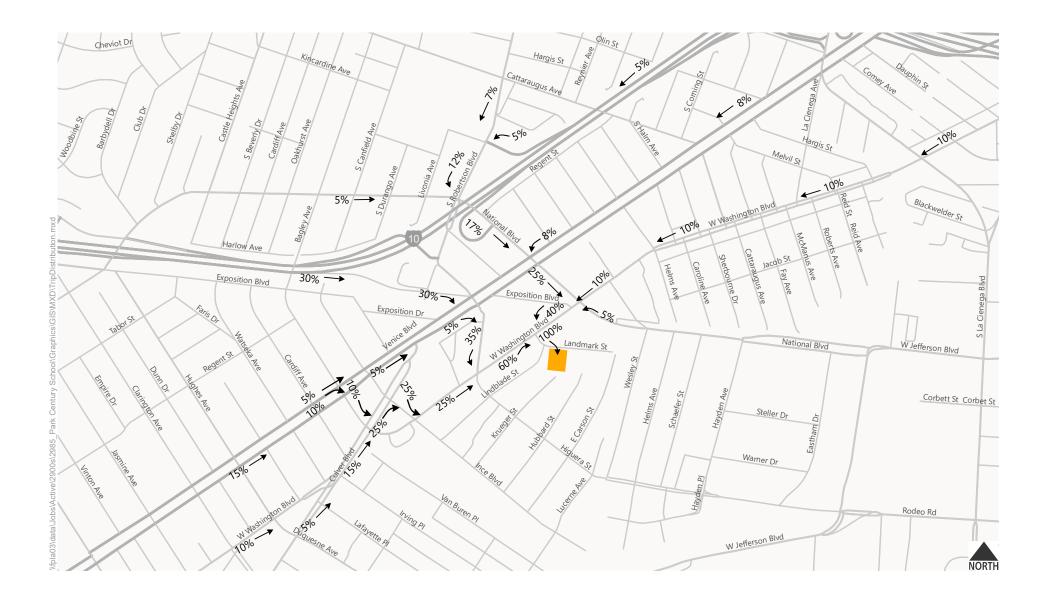






Figure 2a

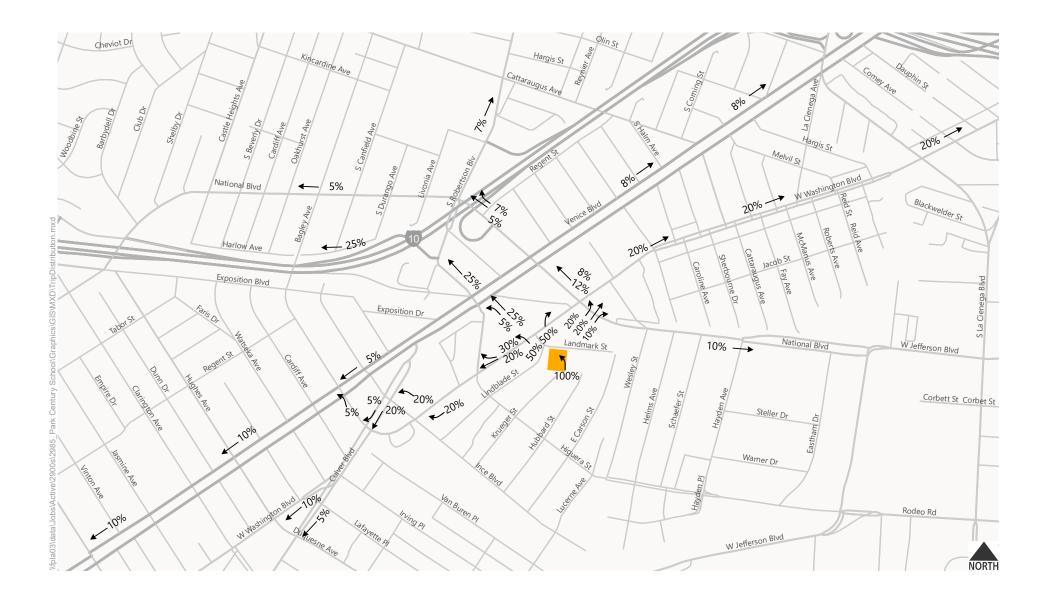






Figure 2b

	TABLE 1															
	PARK CENTURY SCHOOL TRIP GENERATION															
	AM Total [a] AM Rate per person MD Total [b] MD Rate per person PM Total [b] PM Rate per person															
Existing On-site Population	Size	Inbound	Outbound	Total	Inbound	Outbound	Inbound	Outbound	Total	Inbound	Outbound	Inbound	Outbound	Total	Inbound	Outbound
Students [a]	120	71	75	146	0.59	0.63	51	40	91	0.43	0.33	18	26	44	0.15	0.22
Staff [b]	60	49	0	49	0.82	0.00	0	17	17	0.00	0.28	0	16	16	0.00	0.27
Total Existing Trips		120	75	195			51	57	108			18	42	60		
Proposed Project	Size	Inbound	Outbound	Total	Inbound	Outbound	Inbound	Outbound	Total	Inbound	Outbound	Inbound	Outbound	Total	Inbound	Outbound
Students	170	100	107	207	0.59	0.63	73	56	129	0.43	0.33	26	37	63	0.15	0.22
Staff	68	56	0	56	0.82	0.00	0	19	19	0.00	0.28	0	18	18	0.00	0.27
Staff Transit/bike/walk Credit [c]	10%	-6	0	-6			0	-2	-2			0	-2	-2		
Total Proposed Trips		150	107	257			73	73	146			26	53	79		
					<u> </u> 					<u> </u> 						
Net New Trips		30	32	62			22	16	38			8	11	19		

[[]a] Inbound trips without students are considered staff generated. All other trips are considered student generated. Staff trips also includes 10 parking spaces at adjacent off-site garage.

[[]b] Outbound trips without students are considered staff generated. All other trips are considered student generated. Staff trips also includes 10 inbound trips from parking spaces at an adjacent off-site garage. Based on based on the driveway counts of outbound trips without students in the MD (12) and PM (11), these 10 trips were split evenly

[[]c] A 10% reduction in staff trips is expected to occur with the initiation of a subsidized transit pass program for staff, and encouraging staff to walk or bike to school.

Trip Generation Rates

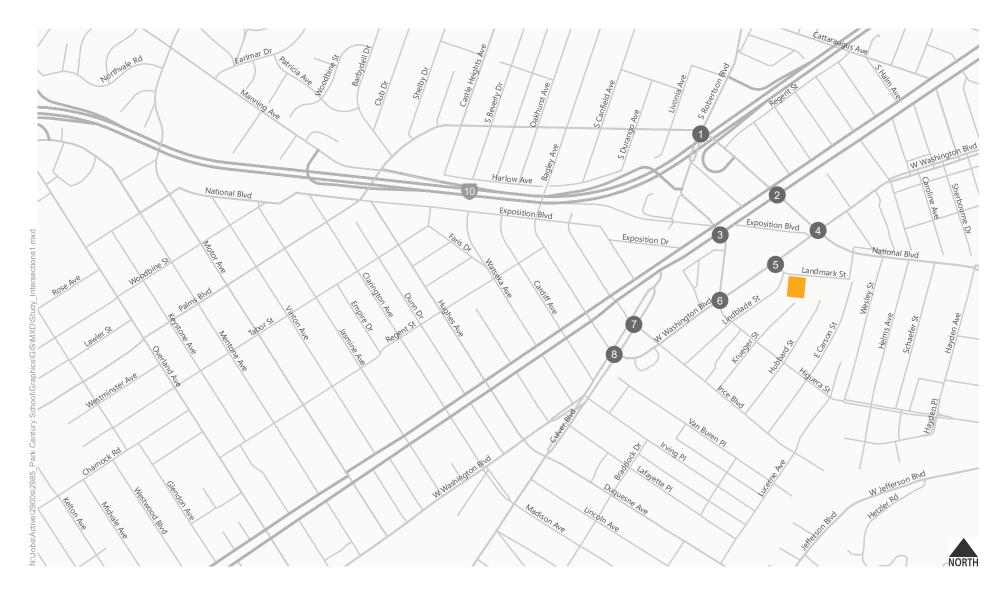
Table 1 presents the trip rates used to estimate trip generation for the Park Century School Project. Trip generation rates were calculated based on driveway counts at the school in fall 2017. Driveway counts were taken between 7-9 AM and 2-6 PM. Vehicles were classified as either staff trips or students trips based on if the a student was present in the car when either entering or exiting the school. In addition, staff trip generation rates incorporated 10 parking spaces that the school currently rent at the adjacent parking structure on Landmark Street. Trip rates were developed for staff and students for the morning (7-9 AM), midday (2-4 PM), and evening periods (4-6 PM).

The trip rates developed using existing conditions were used to estimate new trips for the school expansion.

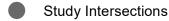
Study Intersections

A total of eight study intersections are proposed for the study (Illustrated in Figure 3). All intersections will be studied during the morning, mid-day, and evening peak hour. The jurisdiction for each intersection is shown in parenthesis:

- 1. Robertson Boulevard/National Boulevard (City of Los Angeles)
- 2. Venice Boulevard/ National Boulevard (City of Los Angeles)
- 3. Venice Boulevard/ Robertson Boulevard (City of Los Angeles)
- 4. Washington Boulevard/National Boulevard (City of Culver City)
- 5. Washington Boulevard/Landmark Street (City of Culver City)
- 6. Washington Boulevard/Robertson Boulevard (City of Culver City)
- 7. Washington Boulevard/Culver Boulevard (City of Culver City)
- 8. Culver Boulevard/Main Street (City of Culver City)













Related Projects



TABLE 2 PARK CENTURY SCHOOL PROJECT

No.	Project Location	City	Land Use	ITE Land	Size			Estimate Peak Hour	d Trip Gen		D I. II	Total
NO.	Project Location	City	Land Ose	Use Code	Size	Daily Trips	In AIVI	Out	Total	In	Peak Hour Out	Total
1	10612 W National Blvd	City of Los Angeles [a]	Coffeeshop		1.726 ksf	636	42	42	84	15	16	31
2	3417 S Motor Ave	City of Los Angeles [a]	Retail		2 ksf	0	8	34	42	30	20	50
		, ()	Apartments		85 Units							
			Apartments Office		126 Units 23 ksf							
	40504 W. I	6: (1 4 1 1)	Retail		9 ksf				440	400		
3	10601 Washington Blvd	City of Los Angeles [a]	Other		4.5 ksf	2,343	64	84	148	123	91	214
			Other		4.5 ksf							
_	0015 W Neticed Divid	Citf1 A1 (-)	Office		10.1 ksf	077	20	24	C1			105
5	9815 W National Blvd 3221 S La Cienega Blvd	City of Los Angeles [a] City of Los Angeles [a]	Gas Station Mixed-Use		12 fueling positions	977 10,136	30 319	31 418	61 737	52 467	53 382	105 849
6	8900 W Venice Blvd	City of Los Angeles [a]	Mixed-Use			4,124	173	83	256	127	174	301
			Apartments		64 Units							
7	9300 W Pico Blvd	City of Los Angeles [a]	Other		99.680 ksf	505	0	0	32	0	0	49
		.,	Other Retail		8.269 ksf 1.637 ksf							
8	10801 W Venice Blvd	City of Los Angeles [a]	Mixed-Use		Other	430	-5	25	20	41	18	59
9	3822 S Dunn Dr	City of Los Angeles [a]	Apartments		86 Units	543	9	33	42	32	18	50
10	10375 W Washington Blvd	City of Los Angeles [a]	Mixed-Use			579	-3	35	32	31	11	42
11 12	5950 W Jefferson Blvd 1434 W Robertson Blvd	City of Los Angeles [a]	Office Hotel		70 ksf 112 Rooms	716 530	65 30	13 17	78 47	23 17	58 16	81 33
		City of Los Angeles [a]	Retail		1.4 ksf							
13	6132 W Pico Blvd	City of Los Angeles [a]	Apartments		100 Units	807	5	34	39	47	30	77
14	5181 W Adams Blvd	City of Los Angeles [a]	Apartments		72 Units	3,951	59	62	121	173	172	345
			Retail		33.860 ksf		5		23			28
15 16	1500 S Hi Point St 1556 S Hi Point St	City of Los Angeles [a] City of Los Angeles [a]	Apartments Apartments		45 Units 45 Units	300 300	5	18 18	23	18 18	10 10	28
17	8900 W National Blvd	City of Los Angeles [a]	Retail		23.795 ksf	1,589	67	47	114	57	60	117
18	3640 S Holdrege Avenue	City of Los Angeles [a]	Office		25.032 ksf	187	0	0	31	0	0	29
19	5930 W Sawyer St	City of Los Angeles [a]	Apartments		60 Units	584	10	35	45	39	23	62
20	10638 Culver Blvd	City of Culver City [b]	Convenience Store	945	2.676 ksf	83	45	48	93	44	43	87
21	5950 Stoneview Dr	City of Culver City [b]	Park Office	412 710	4 acres 4.000 ksf	22	2	3	5	1	1	2
			Restaurant	820	3.850 ksf							
22	11198 Washington Place	City of Culver City [b]	Restaurant	932	0.500 ksf	- 553	26	27	53	26	17	43
23	11197 Washington Place	City of Culver City [b]	Convenience Store	852	2.500 ksf	78	42	44	86	42	40	82
24	10808 Culver Blvd	City of Culver City [b]	Museum	580	12.596 ksf	-31	2	-11	-9	-1	0	-1
25		City of Culver City [b]	Armory/mini-warehouse	151	-12.596 ksf	12	0	1	1	1	0	
26	3837 Bentley Ave 4109-41111 Duquesne Ave	City of Culver City [b]	Condominium Apartments	231 220	2 Units 2 Units	13	0	1	1	1	0	1
			Retail	820	2.947 ksf							
27	9355 Culver Blvd	City of Culver City [b]	Apartments	220	4 Units	152	2	5	7	7	6	13
28	4044-4068 Globe Avenue	City of Culver City [b]	Apartments	220	10 Units	133	2	11	13	8	5	13
	4044 4000 Globe Mellide	city of curver city [0]	Single Family Homes	210	7 homes	100	-				, , ,	
29	11224 Venice Blvd	City of Culver City [b]	Automated Car Wash [c] Convenience Store	948 852	0.864 ksf 2.285 ksf	76	42	2	44	44	43	87
30	4241 Duquesne Ave	City of Culver City [b]	Condominium	231	2 Units	12	0	1	1	1	0	1
31	4034 La Salle Ave	City of Culver City [b]	Condominium	231	3 Units	17	0	1	1	1	1	2
32	3961 Tilden Ave	City of Culver City [b]	Condominium	231	2 Units	12	0	1	1	1	0	1
33	10799 Washington Blvd	City of Culver City [b]	Restaurant	932	2.000 ksf	254	12	10	22	12	8	20
34 35	8509 Higuera, 8476 Warner	City of Culver City [b]	School [d] Condominium	534 231	100 students 2 Units	162 12	50 0	40 1	90	28 1	32 0	60
36	3873 Bentley Ave 4180 Duquesne Ave	City of Culver City [b] City of Culver City [b]	Condominium	231	3 Units	17	0	1	1	1	1	2
37	3832 Bentley Ave	City of Culver City [b]	Condominium	231	3 Units	17	0	1	1	1	1	2
38	3030 La Cienega Blvd	City of Culver City [b]	Retail	820	1.250 ksf	53	1	0	1	2	3	5
39	9919 Jefferson Blvd	City of Culver City [b]	Office	710	62.558 ksf	208	26	4	30	5	24	29
40	10000 Washington Blvd	City of Culver City [b]	Office	710	-1.497 ksf	512	7	5	12	21	23	44
41	9300 Culver Blvd	City of Culver City [b]	Retail Retail	820 820	12.100 ksf 118.000 ksf	5,039	70	43	113	210	228	438
42	8511 Warner Dr	City of Culver City [b]	Retail/Restaurant	820	51.520 ksf	2,200	31	18	49	92	99	191
43	3434 Wesley St	City of Culver City [b]	Apartments	220	15 Units	147	8	14	22	7	9	16
			Office	1710	14.237 ksf							
44	4227 Ince Blvd	City of Culver City [b]	Apartments	220	5 Units	33	1	2	3	2	1	3
45	3727 Robertson Blvd	City of Culver City [b]	Office Office	710 710	6 ksf -6.8 ksf	-3	0	-3	-3	0	0	0
46	3355-3361 South Overland Ave	City of Los Angeles [a]	Apartments	220	41 units	238	3	15	18	14	7	21
			Hotel	310	148 Rooms							1
47	8824 National Blvd	City of Culver City [b]	Retail	820	57.742 ksf	5,768	195	156	351	235	297	532
47	5524 National Bivu	city of culver city [b]	Office	710	196.333 ksf		155	150	331	233	237	332
			Apartments	220	200 units	1				-	-	-
48	3814 Lenawee Ave	City of Culver City [b]	Apartments Assisted Living	220 254	8 units 95 units	403	8	91	99	19	12	31
	2000 W. J	e	Office	710	56.559 ksf			_				
49	8888 Washington Blvd	City of Culver City [b]	Retail	820	5.972 ksf	443	27	7	34	15	33	48
50	8777 Washington Blvd	City of Culver City [b]	Office	1710	128.000 ksf	617	57	10	67	18	58	76
	a	2, 2. 23/40/ 010/ [0]	Retail	820	4.500 ksf				J.			ļ.,
51	9336 Washington Blvd/Culver Studio	City of Culver City [b]	Active Production Support (Office)	710	206.563 ksf	3,013	259	187	446	69	305	374
			Passive Production Support Office	150 710	206.563 ksf 55.477 ksf	-						+
	52 9735 Washington Blvd		Retail	820	12.249 ksf					1	1	99
52		City of Culver City [b]	High-Turnover Restaurant	932	2.147 ksf	1,101	. 26	7	33	47	52	
			Quality Restaurant	931	2.000 ksf			1		1	1	1
	1054 1405- : :	en 10 · · · · ·	Bank and Office	710	-16.2 ksf	1		L		l		ļ
53	4051 and 4055 Jackson Ave	City of Culver City [b]	Condominium Apartments	231 220	3 units 141 units	17 819	1 11	0 51	62	49	24	73
54	3710 and 3750 Robertson Boulevard	City of Culver City [b]	Office	710	64.200 ksf	213	27	4	31	5	24	30
		2.1, 2. 23,701 (10)	Retail	820	30.042 ksf	1,283	18	11	29	53	58	111
			Apartments	220	199 units							
			Office	710	17.250 ksf	2,607	33	80		155	72	227
55	8700.8710.8740, and 8750 Washington Blud	City of Culver City [h]										
55	8700,8710,8740, and 8750 Washington Blvd	City of Culver City [b]	Restaurant	931	5.000 ksf	2,007	33	80	113	155	,,,	
55 56	8700,8710,8740, and 8750 Washington Blvd 3568 Motor Ave	City of Culver City [b] City of Los Angeles [a]			5.000 ksf 17.750 ksf 42 units	2,007	3	15	113	155	7	22

[[]C] Self-Service Car Wash (ITE 948) Daily Rate used because no Automated Car Wash Daily Rate is unavailable.

[[]d] Middle School/ Junior High School (ITE 522) used because no Private School Daily Rate is unavailable.



study.

Attachment A

Memorandum Of Understanding For a Traffic Study

This Memorandum Of Understanding (MOU) acknowledges and agrees to all of the City of Culver City requirements and fees for the review of a traffic study for the following project:

Project Name: Project Address: Project Description:	Park Century School 3939 Landmark St, Culver City,	CA 90232							
	_50Students / _20Sta	aff							
See Attachment A-1 and Figure 1.									
Project Horizon Year: Directional Distribution: [Attach map(s) illustrating of See Figure 2.	2019 Ambient Growth N: _25_% S: _20_% directional distribution percentages at all i								
[Show AM, PM and daily tr Land Use: <u>P</u> AM Trips:	FE Latest Edition / Other:	ounts from school							
PM Trips: Attach Total Daily Trips Ge	8 / 17 neration Calculations.								
Prior to the start of any property of any property of the start of any property of any property of the start of any property of any pro	1 for AM, MD, and PM Trip Generation roposed project analysis, the Traffic C related projects from the Planning I ions; ist of "related projects specific to the pproval from the City of the "related	onsultant shall: Division of Culver City and other proposed project"; and							
Residential Streets to be S	ee Attachment A-3 and Figure 3tudied:	/ J <u>urisdiction:</u>							
* Gross Floor Area ** Indicate intersec control synchror *** Indicate non-sign	ee Figure 3 / Limits: (GFA) shall be as defined in the mostions subject to capacity analysis dization. nalized intersections to be studied. umbering system for all lists of inter	st recent ITE publication. credit for advanced traffic signal							

<u>Indicate</u>	Trip Credits to Be Requested (Amount Subject To City Approval):	Yes	No
1.	Existing Uses:		X
2.	Pass-By Trips:		X
3.	Internal Trip Capture:		X
4.	Transit Oriented Development (TOD)		Χ
5.	Transportation Demand Management (TDM)		Χ

Maps:

The following maps shall be attached to the MOU:

- 1. A map showing the project's trip distribution percentages for each land use (inbound and outbound) at the study intersections and project driveways; and
- 2. A map showing the project's trips at the study intersections and project driveways.

Proposed Traffic Mitigation:

Any proposed traffic mitigation measure shall be listed and accompanied by a drawing of the existing and proposed improvements [including city boundary lines and existing *I* proposed property lines] and plans shall be of a minimum scale of one inch (1") equal to forty feet (40'-0").

Post-Occupancy Traffic Counts:

By signing below, the Property Owner I Developer I Applicant hereby agrees to pay for and submit to the City a post-occupancy traffic count analysis of the development to the satisfaction of the City. The analysis shall determine the amount of actual traffic (motor vehicle, bicycle and pedestrian) generated by the development compared to the ITE trip generation rates. The analysis shall include a traffic count of all onsite driveways taken upon reaching eighty five percent (85.0%) occupancy of the total building gross floor area or within one (1) year of the issuance of the first Temporary Certificate of Occupancy (TCO), as determined by the City. The data shall be used to confirm the findings in the approved traffic study, and shall not result in any additional traffic mitigation measures and/or conditions of approval on the subject project.

Congestion Management Plan (CMP):

This project shall also be subject to all City imposed CMP developer fees if the Planning Commission approval date is on or after the effective date of any City Council imposed CMP developer fees or as may be otherwise imposed by the City.

Fee:

Payment of a fee to the Engineering Division for the City's processing of a traffic study shall be required prior to the City's approval of the MOU. Said fee shall be in accordance with the most recent Fee Schedule as approved by the City Council.

City of Culver City Traffic Study Guidelines Page 3

Signatures:	'.	· ·
3		
	Property Owner / Applicant:	Developer / Applicant:
, š	l l l l l l l l l l	
Name [Signed]:	leaghet Unac	
Name [Printed]:	/ Jennifer Palmer	Paul Jennings
*****	Director of Development and Community Affairs :	
Title;		
Company:	Park Century School	11661 SanVicente Blvd., Suite 910
Address:	3939 Landmark Street	Los Angeles, CA 90049
City / State / Zip:	Culver City, CA 90232	
Office	310-840-0500 ext. 235	(310) 231-1000
Fax:	()	_ (
Cell:		
E-Maik	jpalmer@parkcenturyschool.org	paul.jennings@teampcs.com
•	1	•
	Traffic Consultant:	
)	:	101- Commentum
Name:	John Muggridge	Mike Samuelson
Title: ⊱	Principal	Transportation Planner
Company:	Fehr & Peers	Fehr & Peers
Addrešs:	600 Wilshire Blvd; Suite 1050	600 Wilshire Blvd, Suite 1050
City / State / Zip:	Los Angeles, CA 90017	Los Angeles, CA 90017
Office:	<u>(_213)261-3050</u>	<u>(213)</u> <u>261-3050</u>
Fax:		
Cell:		. ()
E-Mail:	I,muggridge@fehrandpeers.com	m.samuelson@fehrandpeers.com
	l and the second of the second	esta - study and language within the City of In
If any of the interse	otion(s) to be studied as part of this tre	ific study are located within the City of Lo and/or impact any other public agency [i.e
Angeles, the uninco	MOI I shall also be approved by the rev	iewing staff representative from each agenc
Carrianal, mon ma	City of Los Angeles:	County of Los Angeles:
Name [Signed]:	<u> </u>	
Name [Printed]:		
Title:		
1		
Department:	City of Los Angeles:	County of Los Angeles:
**************************************	City of Los Afficeres.	COUNTY OF COS ATIAGRASS
Address:		
City / State / Zip:		
Office:		
Fax:		
Cell:		
E-Mail:		

City of Culver City Traffic Study Guidelines Page 4

	Other Public Agency:	Other Public Agency:
Name [Signed]:		
Name [Printed]:		
Title:	A	
Company:	-	
Address:		
City / State / Zip: Office: Fax; Celi;		
E-Mail:	-	
Approved By: (All All Carlotter Arthroperty)		<u>-</u>
	2/22/18	8
Develop - Applicant	Date	.
Alme	U, 2/6/18	
Traffic Consultant	Date	
Chy of Culter City	The state of the s	118

Note: This MOU shall become valid as of the date of the City's signature and shall expire one (1) year thereafter. If the "administrative draft" of the traffic study has not been filed with the City by the expiration date, this MOU shall also expire and a new MOU filing, fee, review and approval process shall be required.

Project Description:

The Project will expand the Park Century School by 50 students and 20 staff. The site plan is illustrated in Figure 1. The project traffic will enter the site from the existing driveway on Landmark Street.

Project Analysis:

Intersection Level of Service

The project will conduct a Level of Service analysis for eight total intersections in the study area, presented in Attachment A-2. All intersections will be analyzed during the morning, midday, and evening peak hour.

The project will conduct a Level of Service analysis for five signalized intersections that lie completely within the City of Culver City using the Intersection Capacity Utilization (ICU) method per the City of Culver City Traffic Study Criteria, July 2012. The project will conduct a Level of Service analysis for three signalized intersections that lie completely within the City of Los Angeles using the Circular 212 Critical Movement Analysis (CMA) per the City of Los Angeles Transportation Impact Study Guidelines, December 2016.

Queuing Analysis, Traffic Management Program and Review

The study will conduct a queuing analysis using the Sim Traffic software to analyze the potential for queuing beyond the school's parking lot, both during the construction period and with the completed project.

Following the queuing analysis, the study will include a Traffic Management Program (TMP), including a discussion of staggered pick-up and drop-off times and pick-up/drop-off procedures. The TMP will address the potential for queuing from early arrivals before the gates are open, and will show the path of travel on the site.

The project team will provide a follow up memorandum on the performance of the TMP, six months after Project occupancy.

Left-Turn Storage Capacity for westbound left at Washington Boulevard & Landmark Street

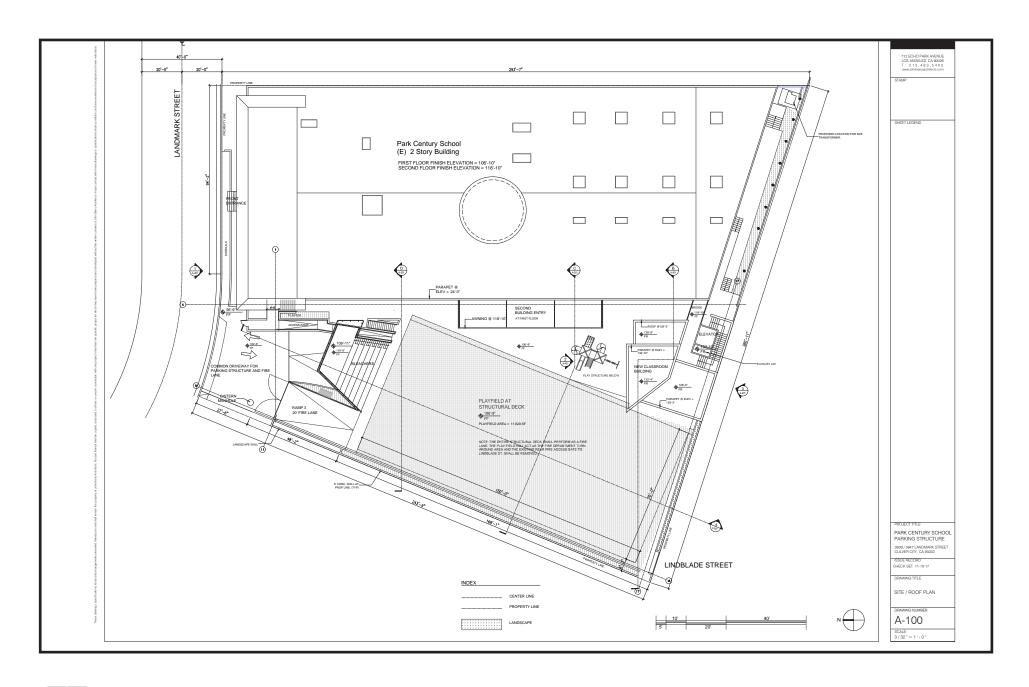
Using the synchro traffic software, the study will analyze if the length of the westbound left-turn pockets on Washington Boulevard is sufficient at Landmark Street. If it is determined that the length is not sufficient for the demand, the analysis will determine the appropriate length for the left-turn pockets.

Bicycle and Pedestrian Connections and TDM Options

The project team will coordinate with the City to include a discussion of bicycle and pedestrian travel options, including information on the proposed Exposition Station to Downtown Bicycle Connection cycle track. The report will note potential TDM options, including programs to encourage biking, walking, and transit, and the potential for shuttles that can reduce the number of vehicle trips to the project site.

ITS Measures for Washington Boulevard

The project will include as assessment of ITS measures that could potentially improve traffic congestion on Washington Boulevard.





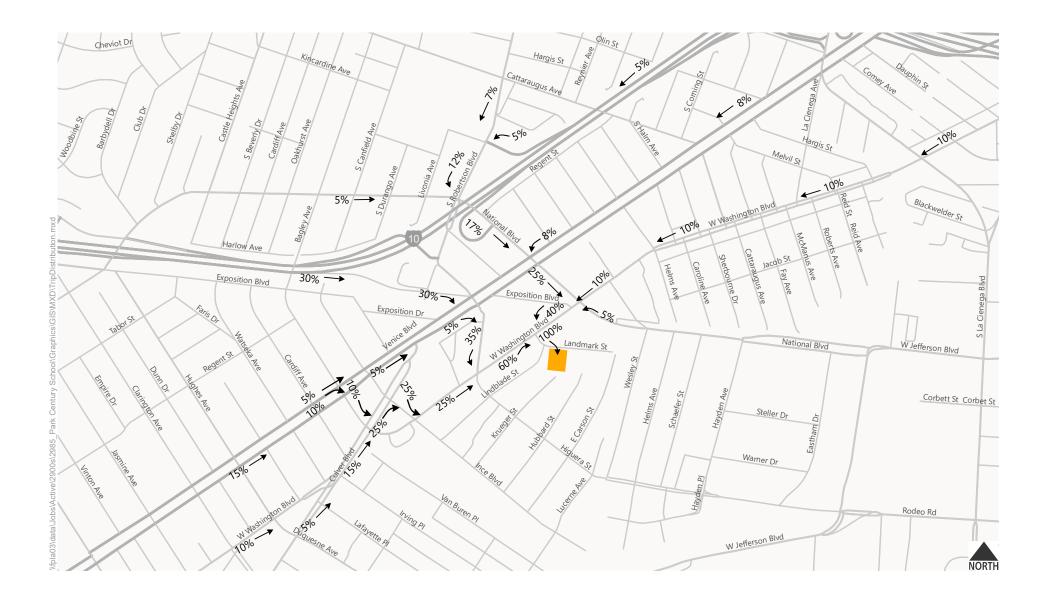






Figure 2a

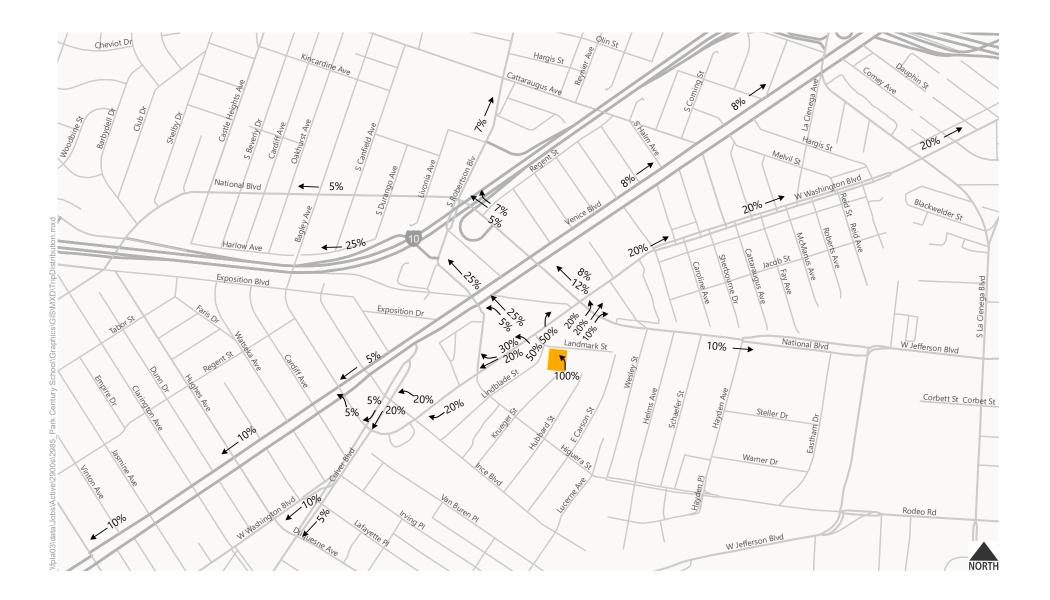






Figure 2b

TABLE 1																
PARK CENTURY SCHOOL TRIP GENERATION																
		AM Total [a] AM Rate per person				MD Total [b] MD Rate per perso			per person	n PM Total [b]			PM Rate per person			
Existing On-site Population	Size	Inbound	Outbound	Total	Inbound	Outbound	Inbound	Outbound	Total	Inbound	Outbound	Inbound	Outbound	Total	Inbound	Outbound
Students [a]	120	71	75	146	0.59	0.63	51	40	91	0.43	0.33	18	26	44	0.15	0.22
Staff [b]	60	49	0	49	0.82	0.00	0	17	17	0.00	0.28	0	16	16	0.00	0.27
Total Existing Trips		120	75	195			51	57	108			18	42	60		
Proposed Project	Size	Inbound	Outbound	Total	Inbound	Outbound	Inbound	Outbound	Total	Inbound	Outbound	Inbound	Outbound	Total	Inbound	Outbound
Students	170	100	107	207	0.59	0.63	73	56	129	0.43	0.33	26	37	63	0.15	0.22
Staff	80	66	0	66	0.82	0.00	0	22	22	0.00	0.28	0	22	22	0.00	0.27
Total Proposed Trips		166	107	273			73	78	151			26	59	85		
Net New Trips		46	32	78			22	21	43			8	17	25		

[[]a] Inbound trips without students are considered staff generated. All other trips are considered student generated. Staff trips also includes 10 parking spaces at adjacent off-site garage.

[[]b] Outbound trips without students are considered staff generated. All other trips are considered student generated. Staff trips also includes 10 inbound trips from parking spaces at an adjacent off-site garage. Based on based on the driveway counts of outbound trips without students in the MD (12) and PM (11), these 10 trips were split evenly

Trip Generation Rates

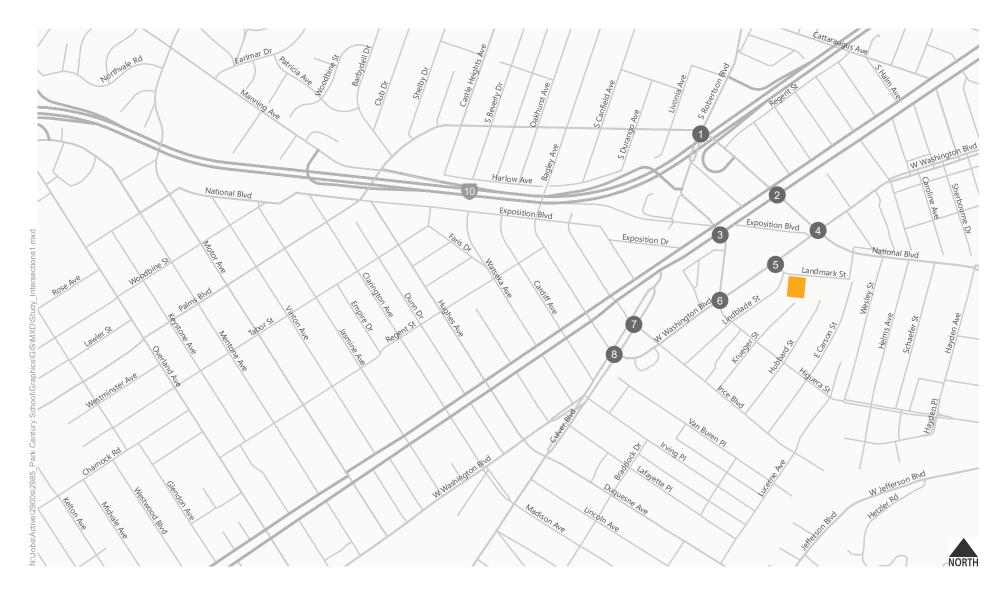
Table 1 presents the trip rates used to estimate trip generation for the Park Century School Project. Trip generation rates were calculated based on driveway counts at the school in fall 2017. Driveway counts were taken between 7-9 AM and 2-6 PM. Vehicles were classified as either staff trips or students trips based on if the a student was present in the car when either entering or exiting the school. In addition, staff trip generation rates incorporated 10 parking spaces that the school currently rent at the adjacent parking structure on Landmark Street. Trip rates were developed for staff and students for the morning (7-9 AM), midday (2-4 PM), and evening periods (4-6 PM).

The trip rates developed using existing conditions were used to estimate new trips for the school expansion.

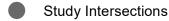
Study Intersections

A total of eight study intersections are proposed for the study (Illustrated in Figure 3). All intersections will be studied during the morning, mid-day, and evening peak hour. The jurisdiction for each intersection is shown in parenthesis:

- 1. Robertson Boulevard/National Boulevard (City of Los Angeles)
- 2. Venice Boulevard/ National Boulevard (City of Los Angeles)
- 3. Venice Boulevard/ Robertson Boulevard (City of Los Angeles)
- 4. Washington Boulevard/National Boulevard (City of Culver City)
- 5. Washington Boulevard/Landmark Street (City of Culver City)
- 6. Washington Boulevard/Robertson Boulevard (City of Culver City)
- 7. Washington Boulevard/Culver Boulevard (City of Culver City)
- 8. Culver Boulevard/Main Street (City of Culver City)













Related Projects



TABLE 2 PARK CENTURY SCHOOL PROJECT

No.	Project Location	Cir.	Land Use	ITE Land	Size			Estimate Peak Hour	d Trip Gen	eration PM Peak Hour Trips		
No.	Project Location	City	Land Use	Use Code	Size	Daily Trips	In	Out	Total	In Out		Total
1	10612 W National Blvd	City of Los Angeles [a]	Coffeeshop		1.726 ksf	636	42	42	84	15	16	31
2	3417 S Motor Ave	City of Los Angeles [a]	Retail		2 ksf	0	8	34	42	30	20	50
			Apartments Apartments		85 Units 126 Units							
			Office		23 ksf							
3	10601 Washington Blud	City of Los Angolos (a)	Retail		9 ksf	2,343	64	84	148	123	91	214
3	10601 Washington Blvd	City of Los Angeles [a]	Other		4.5 ksf	2,343	64	84	148	123	91	214
			Other		4.5 ksf		ĺ				1	
4	9815 W National Blvd	City of Los Angeles [a]	Office Gas Station		10.1 ksf 12 fueling positions	977	30	31	61	52	53	105
5	3221 S La Cienega Blvd	City of Los Angeles [a]	Mixed-Use			10,136	319	418	737	467	382	849
6	8900 W Venice Blvd	City of Los Angeles [a]	Mixed-Use			4,124	173	83	256	127	174	301
			Apartments Other		64 Units 99.680 ksf	-						
7	9300 W Pico Blvd	City of Los Angeles [a]	Other		8.269 ksf	505	0	0	32	0	0	49
			Retail		1.637 ksf							
8	10801 W Venice Blvd	City of Los Angeles [a]	Mixed-Use		Other	430	-5	25	20	41	18	59
10	3822 S Dunn Dr 10375 W Washington Blvd	City of Los Angeles [a] City of Los Angeles [a]	Apartments Mixed-Use		86 Units	543 579	-3	33 35	42 32	32 31	18 11	50 42
11	5950 W Jefferson Blvd	City of Los Angeles [a]	Office		70 ksf	716	65	13	78	23	58	81
12	1434 W Robertson Blvd	City of Los Angeles [a]	Hotel		112 Rooms	530	30	17	47	17	16	33
13	6132 W Pico Blvd	City of Los Angeles [a]	Retail		1.4 ksf	807	5	34	39	47	30	77
			Apartments Apartments		100 Units 72 Units							
14	5181 W Adams Blvd	City of Los Angeles [a]	Retail		33.860 ksf	3,951	59	62	121	173	172	345
15	1500 S Hi Point St	City of Los Angeles [a]	Apartments		45 Units	300	5	18	23	18	10	28
16	1556 S Hi Point St	City of Los Angeles [a]	Apartments		45 Units 23.795 ksf	300	5	18	23	18	10	28
17 18	8900 W National Blvd 3640 S Holdrege Avenue	City of Los Angeles [a] City of Los Angeles [a]	Retail Office		23.795 ksf 25.032 ksf	1,589 187	67 0	47 0	114 31	57 0	60 0	117 29
19	5930 W Sawyer St	City of Los Angeles [a]	Apartments		60 Units	584	10	35	45	39	23	62
20	10638 Culver Blvd	City of Culver City [b]	Convenience Store	945	2.676 ksf	83	45	48	93	44	43	87
21	5950 Stoneview Dr	City of Culver City [b]	Park	412	4 acres	22	2	3	5	1	1	2
			Office	710 820	4.000 ksf 3.850 ksf	-						-
22	11198 Washington Place	City of Culver City [b]	Restaurant Restaurant	932	0.500 ksf	553	26	27	53	26	17	43
23	11197 Washington Place	City of Culver City [b]	Convenience Store	852	2.500 ksf	78	42	44	86	42	40	82
24	10808 Culver Blvd	City of Culver City [b]	Museum	580	12.596 ksf	-31	2	-11	-9	-1	0	-1
			Armory/mini-warehouse	151	-12.596 ksf							
25	3837 Bentley Ave	City of Culver City [b]	Condominium	231	2 Units	12	0	1	1	1	0	1
26	4109-41111 Duquesne Ave	City of Culver City [b]	Apartments Retail	220 820	2 Units 2.947 ksf	13	0	1	1	1	0	1
27	9355 Culver Blvd	City of Culver City [b]	Apartments	220	4 Units	152	2	5	7	7	6	13
28	4044 4069 Clobo Avonus	City of Culver City [h]	Apartments	220	10 Units	133	2	11	13	8	5	13
28	4044-4068 Globe Avenue	City of Culver City [b]	Single Family Homes	210	7 homes	133	2	11	13	8	5	13
29	11224 Venice Blvd	City of Culver City [b]	Automated Car Wash [c]	948	0.864 ksf	76	42	2	44	44	43	87
30	4241 Duquesne Ave	City of Culver City [b]	Convenience Store Condominium	852 231	2.285 ksf 2 Units	12	0	1	1	1	0	1
31	4034 La Salle Ave	City of Culver City [b]	Condominium	231	3 Units	17	0	1	1	1	1	2
32	3961 Tilden Ave	City of Culver City [b]	Condominium	231	2 Units	12	0	1	1	1	0	1
33	10799 Washington Blvd	City of Culver City [b]	Restaurant	932	2.000 ksf	254	12	10	22	12	8	20
34	8509 Higuera, 8476 Warner	City of Culver City [b]	School [d]	534	100 students	162	50	40	90	28	32	60
35 36	3873 Bentley Ave 4180 Duquesne Ave	City of Culver City [b] City of Culver City [b]	Condominium Condominium	231 231	2 Units 3 Units	12 17	0	1	1	1	0	2
37	3832 Bentley Ave	City of Culver City [b]	Condominium	231	3 Units	17	0	1	1	1	1	2
38	3030 La Cienega Blvd	City of Culver City [b]	Retail	820	1.250 ksf	53	1	0	1	2	3	5
39	9919 Jefferson Blvd	City of Culver City [b]	Office	710	62.558 ksf	208	26	4	30	5	24	29
40	10000 Washington Blvd	City of Culver City [b]	Office	710	-1.497 ksf	512	7	5	12	21	23	44
41	9300 Culver Blvd	City of Culver City [b]	Retail Retail	820 820	12.100 ksf 118.000 ksf	5,039	70	43	113	210	228	438
42	8511 Warner Dr	City of Culver City [b]	Retail/Restaurant	820	51.520 ksf	2,200	31	18	49	92	99	191
43	3434 Wesley St	City of Culver City [b]	Apartments	220	15 Units	147	8	14	22	7	9	16
			Office	1710	14.237 ksf							
44	4227 Ince Blvd	City of Culver City [b]	Apartments	220	5 Units	33	1	2	3	2	1	3
45	3727 Robertson Blvd	City of Culver City [b]	Office Office	710 710	6 ksf -6.8 ksf	-3	0	-3	-3	0	0	0
46	3355-3361 South Overland Ave	City of Los Angeles [a]	Apartments	220	41 units	238	3	15	18	14	7	21
		XX	Hotel	310	148 Rooms							
47	8824 National Blvd	City of Culver City [b]	Retail	820	57.742 ksf	5,768	195	156	351	235	297	532
**		,	Office	710	196.333 ksf	-,,,,,,,					1 -	
			Apartments Apartments	220 220	200 units 8 units							-
48	3814 Lenawee Ave	City of Culver City [b]	Apartments Assisted Living	254	95 units	403	8	91	99	19	12	31
49	8888 Washington Blvd	City of Culver City (h)	Office	710	56.559 ksf	443	27	7	3/1	15	22	40
45	8888 Washington Blvd	City of Culver City [b]	Retail	820	5.972 ksf	445	27	,	34	15	33	48
50	8777 Washington Blvd	City of Culver City [b]	Office	1710	128.000 ksf	617	57	10	67	18	58	76
	-		Retail Active Production Support (Office)	820 710	4.500 ksf 206.563 ksf							-
51	9336 Washington Blvd/Culver Studio	City of Culver City [b]	Passive Production Support (Office)	150	206.563 ksf	3,013	259	187	446	69	305	374
			Office	710	55.477 ksf		26	7		47	52	***************************************
			Retail	820	12.249 ksf							
52	9735 Washington Blvd	City of Culver City [b]	High-Turnover Restaurant	932	2.147 ksf	1,101			33			99
			Quality Restaurant	931	2.000 ksf -16.2 ksf							
53	4051 and 4055 Jackson Ave	City of Culver City [b]	Bank and Office Condominium	710 231	-16.2 kst 3 units	17	1	0	1	1	1	2
	-1031 UIIO -1033 JBCK3UII AVE	City of Culver City [D]	Apartments	220	141 units	819	11	51	62	49	24	73
54	3710 and 3750 Robertson Boulevard	City of Culver City [b]	Office	710	64.200 ksf	213	27	4	31	5	25	30
			Retail	820	30.042 ksf	1,283	18	11	29	53	58	111
			Apartments	220	199 units	2,203						
55	8700,8710,8740, and 8750 Washington Blvd	City of Culver City [b]	Office	710 931	17.250 ksf 5.000 ksf	2,607	33	80	113	155	72	227
			Restaurant Retail	931 820	5.000 ksf 17.750 ksf	1				1		1
			Anartments	220	42 units	244	3	15	18	15	7	22
56	3568 Motor Ave	City of Los Angeles [a]			1.77 ksf							

[[]C] Self-Service Car Wash (ITE 948) Daily Rate used because no Automated Car Wash Daily Rate is unavailable.

[[]d] Middle School/ Junior High School (ITE 522) used because no Private School Daily Rate is unavailable.

APPENDIX D: SIMTRAFFIC RESULTS





Movement	EB	EB	EB	EB	B14	B14	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	Т	Т	L	Т	T	R	L	
Maximum Queue (ft)	130	260	261	115	130	170	150	664	671	130	189	210
Average Queue (ft)	67	194	208	90	15	28	124	640	639	110	67	155
95th Queue (ft)	143	280	295	155	71	99	188	657	662	169	157	241
Link Distance (ft)		178	178		274	274		620	620			
Upstream Blk Time (%)		15	20					54	50			
Queuing Penalty (veh)		67	87					0	0			
Storage Bay Dist (ft)	105			90			125			105	185	185
Storage Blk Time (%)	3	28	32	1			18	52	53	14	0	1
Queuing Penalty (veh)	8	19	63	4			103	126	148	83	0	2

Intersection: 4: Robertson BI & Washington BI

Movement	NB	NB	NB	SB	SB	SB	SB
Directions Served	T	T	R	L	L	T	TR
Maximum Queue (ft)	451	390	85	87	195	448	382
Average Queue (ft)	263	215	28	9	96	267	229
95th Queue (ft)	402	337	86	49	215	389	340
Link Distance (ft)	627	627				486	486
Upstream Blk Time (%)						0	0
Queuing Penalty (veh)						0	0
Storage Bay Dist (ft)			60	170	170		
Storage Blk Time (%)	18	44	1	0	0	29	
Queuing Penalty (veh)	33	19	2	0	0	24	

Intersection: 5: Landmark St & Washington BI

Movement	EB	EB	EB	WB	WB	WB	B14	B14	B14	NB	NB	
Directions Served	T	T	R	L	Т	Т	T	Т		L	R	
Maximum Queue (ft)	214	246	120	273	337	350	43	68	6	80	77	
Average Queue (ft)	111	128	56	65	142	168	2	4	0	46	33	
95th Queue (ft)	203	229	130	165	312	338	31	33	6	78	69	
Link Distance (ft)	708	708			274	274	178	178	178	15	15	
Upstream Blk Time (%)				0	1	2	0			40	10	
Queuing Penalty (veh)				0	10	17	0			28	7	
Storage Bay Dist (ft)			95	300								
Storage Blk Time (%)		8	0	0	1							
Queuing Penalty (veh)		11	1	0	1							

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	L	Т	TR	L	Т	TR	L	Т	R	L	T	R
Maximum Queue (ft)	114	313	319	105	498	516	129	494	100	149	374	61
Average Queue (ft)	69	149	160	58	312	340	42	285	57	99	143	12
95th Queue (ft)	128	267	271	122	475	488	115	490	127	167	311	41
Link Distance (ft)		646	646		708	708		490			671	671
Upstream Blk Time (%)								5			0	
Queuing Penalty (veh)								0			0	
Storage Bay Dist (ft)	90			80			105		75	125		
Storage Blk Time (%)	18	15		4	26		0	51	0	10	7	
Queuing Penalty (veh)	67	12		21	20		0	63	2	27	10	

Intersection: 8: Platform Driveway Gate

Movement	WB
Directions Served	T
Maximum Queue (ft)	65
Average Queue (ft)	33
95th Queue (ft)	80
Link Distance (ft)	9
Upstream Blk Time (%)	1
Queuing Penalty (veh)	0
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	38	81	80
Average Queue (ft)	13	55	21
95th Queue (ft)	37	83	56
Link Distance (ft)	9	28	15
Upstream Blk Time (%)	2	5	2
Queuing Penalty (veh)	0	7	4
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 10: Landmark St & Park Century School

Movement	EB	NB	SB	SB
Directions Served	LR	LT	T	R
Maximum Queue (ft)	34	26	21	61
Average Queue (ft)	29	1	1	22
95th Queue (ft)	44	13	11	45
Link Distance (ft)	4	534	28	28
Upstream Blk Time (%)	5		0	3
Queuing Penalty (veh)	3		0	4
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 15:

Movement	WB
Directions Served	R
Maximum Queue (ft)	46
Average Queue (ft)	43
95th Queue (ft)	58
Link Distance (ft)	4
Upstream Blk Time (%)	1
Queuing Penalty (veh)	1
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 16: Park Century School Loading

Movement	EB	EB	
Directions Served	Т	R	
Maximum Queue (ft)	104	50	
Average Queue (ft)	61	9	
95th Queue (ft)	109	40	
Link Distance (ft)	51		
Upstream Blk Time (%)	31	0	
Queuing Penalty (veh)	25	0	
Storage Bay Dist (ft)		25	
Storage Blk Time (%)	61	0	
Queuing Penalty (veh)	4	0	

Intersection: 20: Park Century School Loading

Movement	WB	WB
Directions Served	T	R
Maximum Queue (ft)	36	34
Average Queue (ft)	30	12
95th Queue (ft)	44	38
Link Distance (ft)	36	
Upstream Blk Time (%)	5	1
Queuing Penalty (veh)	4	0
Storage Bay Dist (ft)		25
Storage Blk Time (%)	5	1
Queuing Penalty (veh)	1	1

Intersection: 22: Park Century School Loading

Movement	EB	SB	SB	B17
Directions Served	T	L	R	T
Maximum Queue (ft)	38	59	21	16
Average Queue (ft)	6	31	3	1
95th Queue (ft)	28	52	16	13
Link Distance (ft)	87	21		39
Upstream Blk Time (%)		7	0	0
Queuing Penalty (veh)		6	0	0
Storage Bay Dist (ft)			25	
Storage Blk Time (%)		7	0	
Queuing Penalty (veh)		1	0	

Network Summary

Movement	EB	EB	EB	EB	B14	B14	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	Т	T	L	T	T	R	L	L
Maximum Queue (ft)	129	277	280	115	362	368	150	350	310	130	184	210
Average Queue (ft)	63	252	253	99	305	313	115	199	156	82	62	148
95th Queue (ft)	138	269	269	152	436	433	176	324	268	151	143	244
Link Distance (ft)		178	178		274	274		620	620			
Upstream Blk Time (%)		56	57		27	31						
Queuing Penalty (veh)		360	365		171	200						
Storage Bay Dist (ft)	105			90			125			105	185	185
Storage Blk Time (%)	1	61	60	4			9	18	12	3	0	1
Queuing Penalty (veh)	6	32	163	21			25	31	16	9	0	3

Intersection: 4: Robertson BI & Washington BI

Movement	NB	NB	NB	SB	SB	SB	SB
Directions Served	T	T	R	L	L	T	TR
Maximum Queue (ft)	434	386	85	153	195	492	460
Average Queue (ft)	258	222	52	31	144	327	276
95th Queue (ft)	382	340	108	108	242	488	420
Link Distance (ft)	627	627				486	486
Upstream Blk Time (%)						2	0
Queuing Penalty (veh)						0	0
Storage Bay Dist (ft)			60	170	170		
Storage Blk Time (%)	21	46	2	0	1	36	
Queuing Penalty (veh)	33	46	7	0	3	57	

Intersection: 5:Landmark St & Washington BI

Movement	EB	EB	EB	WB	WB	WB	NB	NB	
Directions Served	T	Т	R	L	Т	Т	L	R	
Maximum Queue (ft)	708	727	120	169	267	274	93	91	
Average Queue (ft)	463	478	56	74	91	96	62	54	
95th Queue (ft)	813	824	147	148	223	220	91	92	
Link Distance (ft)	708	708			274	274	15	15	
Upstream Blk Time (%)	7	10			0	0	61	47	
Queuing Penalty (veh)	46	61			0	0	61	47	
Storage Bay Dist (ft)			95	300					
Storage Blk Time (%)		52	0		0				
Queuing Penalty (veh)		33	3		0				

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	L	T	TR	L	Т	TR	L	Т	R	L	T	R
Maximum Queue (ft)	114	484	493	105	308	334	103	218	100	150	567	386
Average Queue (ft)	60	207	223	59	145	165	26	86	42	122	267	102
95th Queue (ft)	125	388	419	118	273	286	70	163	100	180	620	451
Link Distance (ft)		646	646		708	708		490			671	671
Upstream Blk Time (%)		0	0								11	8
Queuing Penalty (veh)		0	0								0	0
Storage Bay Dist (ft)	90			80			105		75	125		
Storage Blk Time (%)	3	26		13	11		0	12	1	35	11	
Queuing Penalty (veh)	14	24		36	7		0	14	2	91	17	

Intersection: 8: Platform Driveway Gate

Movement	EB	WB
Directions Served	T	Т
Maximum Queue (ft)	99	71
Average Queue (ft)	11	40
95th Queue (ft)	56	85
Link Distance (ft)	158	9
Upstream Blk Time (%)	0	1
Queuing Penalty (veh)	0	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	62	106	69
Average Queue (ft)	35	65	25
95th Queue (ft)	65	109	56
Link Distance (ft)	9	28	15
Upstream Blk Time (%)	30	37	7
Queuing Penalty (veh)	16	55	9
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 10: Landmark St & Park Century School

Movement	EB	NB	SB	SB
Directions Served	LR	LT	T	R
Maximum Queue (ft)	53	136	53	46
Average Queue (ft)	25	24	4	12
95th Queue (ft)	54	97	26	32
Link Distance (ft)	4	534	28	28
Upstream Blk Time (%)	12		1	1
Queuing Penalty (veh)	5		1	1
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 15:

Movement	EB	WB
Directions Served	T	R
Maximum Queue (ft)	40	46
Average Queue (ft)	3	26
95th Queue (ft)	22	63
Link Distance (ft)	8	4
Upstream Blk Time (%)	2	0
Queuing Penalty (veh)	1	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 16: Park Century School Loading

Movement	EB	
Directions Served	Т	
Maximum Queue (ft)	96	
Average Queue (ft)	40	
95th Queue (ft)	83	
Link Distance (ft)	51	
Upstream Blk Time (%)	14	
Queuing Penalty (veh)	6	
Storage Bay Dist (ft)		
Storage Blk Time (%)	42	
Queuing Penalty (veh)	0	

Intersection: 20: Park Century School Loading

Movement	WB	WB
Directions Served	Т	R
Maximum Queue (ft)	36	33
Average Queue (ft)	17	3
95th Queue (ft)	44	18
Link Distance (ft)	36	
Upstream Blk Time (%)	2	0
Queuing Penalty (veh)	0	0
Storage Bay Dist (ft)		25
Storage Blk Time (%)	2	0
Queuing Penalty (veh)	0	0

Intersection: 22: Park Century School Loading

Movement	EB	SB	SB	B17
Directions Served	T	L	R	T
Maximum Queue (ft)	41	44	19	5
Average Queue (ft)	15	17	2	0
95th Queue (ft)	43	44	12	6
Link Distance (ft)	87	21		39
Upstream Blk Time (%)		2	0	0
Queuing Penalty (veh)		1	0	0
Storage Bay Dist (ft)			25	
Storage Blk Time (%)		2	0	
Queuing Penalty (veh)		0	0	

Network Summary

Movement	EB	EB	EB	EB	B14	B14	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	T	T	L	T	T	R	L	L
Maximum Queue (ft)	129	282	280	116	371	372	150	372	347	130	192	210
Average Queue (ft)	74	253	254	91	322	323	118	204	160	78	106	177
95th Queue (ft)	145	265	267	156	415	405	181	330	282	152	194	252
Link Distance (ft)		178	178		274	274		620	620			
Upstream Blk Time (%)		53	54		28	32						
Queuing Penalty (veh)		361	366		193	216						
Storage Bay Dist (ft)	105			90			125			105	185	185
Storage Blk Time (%)	4	58	59	2			11	19	14	2	0	4
Queuing Penalty (veh)	22	40	156	10			33	31	17	7	2	14

Intersection: 4: Robertson BI & Washington BI

Movement	NB	NB	NB	SB	SB	SB	SB
Directions Served	T	T	R	L	L	T	TR
Maximum Queue (ft)	601	579	85	168	195	503	473
Average Queue (ft)	377	346	64	41	146	360	310
95th Queue (ft)	639	603	115	120	240	542	488
Link Distance (ft)	627	627				486	486
Upstream Blk Time (%)	5	4				7	5
Queuing Penalty (veh)	0	0				0	0
Storage Bay Dist (ft)			60	170	170		
Storage Blk Time (%)	36	57	6	0	1	41	
Queuing Penalty (veh)	73	96	20	0	4	69	

Intersection: 5: Landmark St & Washington BI

Movement	EB	EB	EB	WB	WB	WB	B14	B14	NB	NB	
Directions Served	Т	T	R	L	Т	Т	T	Т	L	R	
Maximum Queue (ft)	740	750	120	212	305	296	20	9	87	95	
Average Queue (ft)	570	590	45	88	111	120	1	1	57	69	
95th Queue (ft)	890	898	132	188	252	250	20	10	93	102	
Link Distance (ft)	708	708			274	274	178	178	15	15	
Upstream Blk Time (%)	6	10		0	1	1			45	56	
Queuing Penalty (veh)	40	64		0	4	3			43	54	
Storage Bay Dist (ft)			95	300							
Storage Blk Time (%)		63	1	0	1						
Queuing Penalty (veh)		32	3	2	1						

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	L	T	TR	L	Т	TR	L	Т	R	L	T	R
Maximum Queue (ft)	115	684	688	105	483	493	129	392	100	149	352	124
Average Queue (ft)	101	542	542	76	249	269	42	185	61	87	113	12
95th Queue (ft)	143	833	826	133	549	553	112	323	126	151	260	85
Link Distance (ft)		646	646		708	708		490			671	671
Upstream Blk Time (%)		27	33		2	1					0	0
Queuing Penalty (veh)		0	0		7	3					0	0
Storage Bay Dist (ft)	90			80			105		75	125		
Storage Blk Time (%)	26	47		40	17		0	34	2	6	6	
Queuing Penalty (veh)	138	77		131	12		0	47	6	16	7	

Intersection: 8: Platform Driveway Gate

Movement	EB	WB
Directions Served	T	Т
Maximum Queue (ft)	127	71
Average Queue (ft)	19	53
95th Queue (ft)	78	90
Link Distance (ft)	158	9
Upstream Blk Time (%)	0	4
Queuing Penalty (veh)	0	3
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	62	93	75
Average Queue (ft)	46	48	34
95th Queue (ft)	69	93	64
Link Distance (ft)	9	28	15
Upstream Blk Time (%)	33	24	11
Queuing Penalty (veh)	38	18	13
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 10: Landmark St & Park Century School

Movement	EB	NB	SB	SB
Directions Served	LR	LT	T	R
Maximum Queue (ft)	48	46	12	20
Average Queue (ft)	22	3	0	6
95th Queue (ft)	48	22	5	19
Link Distance (ft)	4	534	28	28
Upstream Blk Time (%)	4		0	0
Queuing Penalty (veh)	1		0	0
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 15:

Movement	EB	WB
Directions Served	T	R
Maximum Queue (ft)	60	46
Average Queue (ft)	32	18
95th Queue (ft)	79	54
Link Distance (ft)	8	4
Upstream Blk Time (%)	0	0
Queuing Penalty (veh)	0	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 16: Park Century School Loading

Movement	EB	NB
Directions Served	T	R
Maximum Queue (ft)	55	33
Average Queue (ft)	12	10
95th Queue (ft)	41	27
Link Distance (ft)	51	109
Upstream Blk Time (%)	1	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)	13	
Queuing Penalty (veh)	0	

Intersection: 20: Park Century School Loading

Movement	WB
Directions Served	T
Maximum Queue (ft)	33
Average Queue (ft)	13
95th Queue (ft)	39
Link Distance (ft)	36
Upstream Blk Time (%)	1
Queuing Penalty (veh)	0
Storage Bay Dist (ft)	
Storage Blk Time (%)	1
Queuing Penalty (veh)	0

Intersection: 22: Park Century School Loading

Movement	SB	SB
Directions Served	L	R
Maximum Queue (ft)	33	21
Average Queue (ft)	12	3
95th Queue (ft)	36	16
Link Distance (ft)	21	
Upstream Blk Time (%)	1	0
Queuing Penalty (veh)	0	0
Storage Bay Dist (ft)		25
Storage Blk Time (%)	1	0
Queuing Penalty (veh)	0	0

Network Summary



Movement	EB	EB	EB	EB	B14	B14	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	T	T	L	Т	Т	R	L	L
Maximum Queue (ft)	129	252	259	115	136	146	150	670	670	130	192	210
Average Queue (ft)	87	163	171	78	21	23	120	639	640	115	95	174
95th Queue (ft)	158	282	289	152	117	119	191	660	655	166	191	251
Link Distance (ft)		178	178		274	274		620	620			
Upstream Blk Time (%)		15	13		0	0		53	53			
Queuing Penalty (veh)		80	69		2	2		0	0			
Storage Bay Dist (ft)	105			90			125			105	185	185
Storage Blk Time (%)	16	19	27	2			12	55	53	18	0	3
Queuing Penalty (veh)	57	27	62	7			74	138	165	107	0	10

Intersection: 4: Robertson BI & Washington BI

Movement	NB	NB	NB	SB	SB	SB	SB
Directions Served	Т	T	R	L	L	T	TR
Maximum Queue (ft)	508	427	85	136	195	496	487
Average Queue (ft)	314	262	33	17	117	341	297
95th Queue (ft)	460	389	92	76	232	501	455
Link Distance (ft)	627	627				486	486
Upstream Blk Time (%)	0					3	1
Queuing Penalty (veh)	0					0	0
Storage Bay Dist (ft)			60	170	170		
Storage Blk Time (%)	26	51	1	0	0	40	
Queuing Penalty (veh)	58	26	2	0	0	46	

Intersection: 5: Landmark St & Washington BI

Movement	EB	EB	EB	WB	WB	WB	B14	B14	NB	NB	
Directions Served	T	T	R	L	Т	T	T	Т	L	R	
Maximum Queue (ft)	228	251	120	249	338	351	69	108	76	75	
Average Queue (ft)	75	103	36	62	148	173	4	7	44	35	
95th Queue (ft)	166	203	105	161	314	341	40	52	78	71	
Link Distance (ft)	708	708			274	274	178	178	15	15	
Upstream Blk Time (%)				0	2	3	0	0	38	10	
Queuing Penalty (veh)				0	14	27	0	1	27	7	
Storage Bay Dist (ft)			95	300							
Storage Blk Time (%)		6	0	0	2						
Queuing Penalty (veh)		8	0	0	2						

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	L	T	TR	L	T	TR	L	Т	R	L	T	R
Maximum Queue (ft)	115	689	688	105	608	649	129	519	100	149	471	270
Average Queue (ft)	112	647	611	62	367	392	45	320	60	111	193	84
95th Queue (ft)	123	766	842	125	586	607	120	541	129	177	444	255
Link Distance (ft)		646	646		708	708		490			671	671
Upstream Blk Time (%)		83	37		1	1		8			2	1
Queuing Penalty (veh)		0	0		7	10		0			0	0
Storage Bay Dist (ft)	90			80			105		75	125		
Storage Blk Time (%)	93	7		18	31		0	56	1	26	6	
Queuing Penalty (veh)	414	12		105	24		0	69	5	71	10	

Intersection: 7: Landmark St & Adjacent Use Driveway

Movement	EB	WB
Directions Served	R	LT
Maximum Queue (ft)	64	63
Average Queue (ft)	31	59
95th Queue (ft)	58	71
Link Distance (ft)	56	8
Upstream Blk Time (%)	1	1
Queuing Penalty (veh)	0	2
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	45	80	74
Average Queue (ft)	14	59	26
95th Queue (ft)	41	98	58
Link Distance (ft)	20	14	15
Upstream Blk Time (%)	3	5	1
Queuing Penalty (veh)	0	6	3
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 10:

Movement	WB	NB
Directions Served	R	T
Maximum Queue (ft)	60	20
Average Queue (ft)	50	1
95th Queue (ft)	83	13
Link Distance (ft)	1	183
Upstream Blk Time (%)	2	
Queuing Penalty (veh)	1	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 15:

Movement	B25	SB
Directions Served	T	R
Maximum Queue (ft)	74	75
Average Queue (ft)	61	35
95th Queue (ft)	80	62
Link Distance (ft)	14	32
Upstream Blk Time (%)	0	4
Queuing Penalty (veh)	0	7
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 20:

Movement	NB
Directions Served	TR
Maximum Queue (ft)	43
Average Queue (ft)	21
95th Queue (ft)	38
Link Distance (ft)	142
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 22: Platform Driveway Gate

Movement	WB
Directions Served	T
Maximum Queue (ft)	71
Average Queue (ft)	46
95th Queue (ft)	85
Link Distance (ft)	20
Upstream Blk Time (%)	3
Queuing Penalty (veh)	2
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 26: Park Century School Temporary Loading

Movement	NB	B8
Directions Served	L	T
Maximum Queue (ft)	98	83
Average Queue (ft)	44	54
95th Queue (ft)	82	90
Link Distance (ft)	92	8
Upstream Blk Time (%)	1	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary

Movement	EB	EB	EB	EB	B14	B14	WB	WB	WB	WB	NB	NB
Directions Served	L	Т	Т	R	Т	Т	L	Т	Т	R	L	L
Maximum Queue (ft)	130	274	278	115	361	367	150	411	373	130	195	210
Average Queue (ft)	108	252	253	102	293	303	124	222	194	99	95	175
95th Queue (ft)	159	269	267	152	431	424	179	356	324	160	191	253
Link Distance (ft)		178	178		274	274		620	620			
Upstream Blk Time (%)		53	51		21	25						
Queuing Penalty (veh)		403	387		161	189						
Storage Bay Dist (ft)	105			90			125			105	185	185
Storage Blk Time (%)	27	49	55	6			13	23	18	7	1	4
Queuing Penalty (veh)	141	76	184	32			42	41	31	22	3	14

Intersection: 4: Robertson BI & Washington BI

Movement	NB	NB	NB	SB	SB	SB	SB
Directions Served	T	T	R	L	L	T	TR
Maximum Queue (ft)	528	481	85	169	195	529	534
Average Queue (ft)	319	279	55	57	160	493	477
95th Queue (ft)	484	434	109	136	254	569	583
Link Distance (ft)	627	627				486	486
Upstream Blk Time (%)	0	0				52	44
Queuing Penalty (veh)	0	0				0	0
Storage Bay Dist (ft)			60	170	170		
Storage Blk Time (%)	31	54	3	0	1	64	
Queuing Penalty (veh)	61	60	10	0	4	124	

Intersection: 5: Landmark St & Washington BI

Movement	EB	EB	EB	WB	WB	WB	B14	B14	NB	NB	
Directions Served	T	T	R	L	Т	T	T	Т	L	R	
Maximum Queue (ft)	735	745	120	228	295	296	13	21	80	86	
Average Queue (ft)	497	524	46	74	109	126	1	1	61	54	
95th Queue (ft)	869	882	132	159	253	258	17	14	87	90	
Link Distance (ft)	708	708			274	274	178	178	15	15	
Upstream Blk Time (%)	3	6		0	1	1			55	39	
Queuing Penalty (veh)	26	45		0	3	3			56	40	
Storage Bay Dist (ft)			95	300							
Storage Blk Time (%)		57	0	0	1						
Queuing Penalty (veh)		36	1	0	0						

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	L	Т	TR	L	T	TR	L	Т	R	L	Т	R
Maximum Queue (ft)	115	692	691	105	460	476	103	246	100	150	665	485
Average Queue (ft)	112	627	623	73	234	258	28	97	49	138	452	278
95th Queue (ft)	130	815	812	129	489	511	74	189	109	180	845	795
Link Distance (ft)		646	646		708	708		490			671	671
Upstream Blk Time (%)		55	48		0	1					34	21
Queuing Penalty (veh)		0	0		2	3					0	0
Storage Bay Dist (ft)	90			80			105		75	125		
Storage Blk Time (%)	57	29		36	19		0	14	1	62	8	
Queuing Penalty (veh)	351	72		124	11		0	18	3	165	15	

Intersection: 7: Landmark St & Adjacent Use Driveway

Movement	EB	WB
Directions Served	R	LT
Maximum Queue (ft)	52	62
Average Queue (ft)	25	55
95th Queue (ft)	53	80
Link Distance (ft)	56	8
Upstream Blk Time (%)	1	1
Queuing Penalty (veh)	0	1
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	73	81	76
Average Queue (ft)	41	52	25
95th Queue (ft)	74	101	56
Link Distance (ft)	20	14	15
Upstream Blk Time (%)	23	19	7
Queuing Penalty (veh)	16	26	10
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 10:

Movement	WB	NB
Directions Served	R	Т
Maximum Queue (ft)	60	75
Average Queue (ft)	34	10
95th Queue (ft)	80	46
Link Distance (ft)	1	183
Upstream Blk Time (%)	3	
Queuing Penalty (veh)	1	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 15:

Movement	B25	SB	B17
Directions Served	T	R	T
Maximum Queue (ft)	74	76	3
Average Queue (ft)	64	31	0
95th Queue (ft)	84	59	3
Link Distance (ft)	14	32	142
Upstream Blk Time (%)	0	3	
Queuing Penalty (veh)	0	3	
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 20:

Movement	NB
Directions Served	TR
Maximum Queue (ft)	45
Average Queue (ft)	14
95th Queue (ft)	36
Link Distance (ft)	142
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 22: Platform Driveway Gate

Movement	EB	WB
Directions Served	T	T
Maximum Queue (ft)	62	71
Average Queue (ft)	9	37
95th Queue (ft)	47	83
Link Distance (ft)	158	20
Upstream Blk Time (%)		2
Queuing Penalty (veh)		1
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 26: Park Century School Temporary Loading

Movement	NB	В8
Directions Served	L	T
Maximum Queue (ft)	69	80
Average Queue (ft)	24	34
95th Queue (ft)	59	82
Link Distance (ft)	92	8
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary

Movement	EB	EB	EB	EB	B14	B14	WB	WB	WB	WB	NB	NB
Directions Served	L	Т	Т	R	Т	Т	L	Т	T	R	L	L
Maximum Queue (ft)	130	276	278	115	362	367	150	436	388	130	195	210
Average Queue (ft)	107	252	253	101	289	299	126	234	201	99	95	176
95th Queue (ft)	158	274	270	153	435	429	180	375	336	161	189	254
Link Distance (ft)		178	178		274	274		620	620			
Upstream Blk Time (%)		52	50		21	24						
Queuing Penalty (veh)		394	383		157	181						
Storage Bay Dist (ft)	105			90			125			105	185	185
Storage Blk Time (%)	26	49	55	6			16	23	18	7	1	4
Queuing Penalty (veh)	137	75	184	31			50	42	32	22	3	13

Intersection: 4: Robertson BI & Washington BI

Movement	NB	NB	NB	SB	SB	SB	SB
Directions Served	T	Т	R	L	L	Т	TR
Maximum Queue (ft)	535	496	85	169	195	530	536
Average Queue (ft)	328	288	53	55	163	482	458
95th Queue (ft)	518	467	109	137	251	582	595
Link Distance (ft)	627	627				486	486
Upstream Blk Time (%)	1	0				43	34
Queuing Penalty (veh)	0	0				0	0
Storage Bay Dist (ft)			60	170	170		
Storage Blk Time (%)	32	54	2	0	1	62	
Queuing Penalty (veh)	61	60	8	0	6	120	

Intersection: 5: Landmark St & Washington Bl

Movement	EB	EB	EB	WB	WB	WB	B14	B14	NB	NB	
Directions Served	T	T	R	L	Т	T	T	T	L	R	
Maximum Queue (ft)	734	743	120	224	284	286	13	21	80	86	
Average Queue (ft)	485	514	47	74	104	120	1	1	62	55	
95th Queue (ft)	863	878	133	157	242	247	17	14	88	91	
Link Distance (ft)	708	708			274	274	178	178	15	15	
Upstream Blk Time (%)	3	6		0	1	1			55	39	
Queuing Penalty (veh)	24	43		0	2	2			56	40	
Storage Bay Dist (ft)			95	300							
Storage Blk Time (%)		56	0	0	1						
Queuing Penalty (veh)		36	3	0	0						

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	L	T	TR	L	Т	TR	L	Т	R	L	T	R
Maximum Queue (ft)	115	698	693	105	464	486	111	250	100	150	656	423
Average Queue (ft)	112	644	639	72	233	258	28	97	49	136	402	224
95th Queue (ft)	126	787	788	129	490	511	76	194	108	179	798	710
Link Distance (ft)		646	646		708	708		490			671	671
Upstream Blk Time (%)		59	50		0	1					27	16
Queuing Penalty (veh)		0	0		2	3					0	0
Storage Bay Dist (ft)	90			80			105		75	125		
Storage Blk Time (%)	61	28		38	19		0	14	2	57	7	
Queuing Penalty (veh)	374	68		128	11		0	17	4	152	13	

Intersection: 7: Landmark St & Adjacent Use Driveway

Movement	EB	WB
Directions Served	R	LT
Maximum Queue (ft)	55	63
Average Queue (ft)	25	55
95th Queue (ft)	53	81
Link Distance (ft)	56	8
Upstream Blk Time (%)	1	1
Queuing Penalty (veh)	0	1
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	73	81	74
Average Queue (ft)	42	52	25
95th Queue (ft)	75	100	56
Link Distance (ft)	20	14	15
Upstream Blk Time (%)	24	21	8
Queuing Penalty (veh)	17	28	11
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 10:

Movement	WB	NB
Directions Served	R	Т
Maximum Queue (ft)	60	75
Average Queue (ft)	34	10
95th Queue (ft)	80	46
Link Distance (ft)	1	183
Upstream Blk Time (%)	4	
Queuing Penalty (veh)	1	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 15:

Movement	B25	SB	B17
Directions Served	T	R	Т
Maximum Queue (ft)	74	79	3
Average Queue (ft)	65	31	0
95th Queue (ft)	83	61	3
Link Distance (ft)	14	32	142
Upstream Blk Time (%)	0	3	
Queuing Penalty (veh)	0	3	
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 20:

Movement	NB
Directions Served	TR
Maximum Queue (ft)	46
Average Queue (ft)	14
95th Queue (ft)	36
Link Distance (ft)	142
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

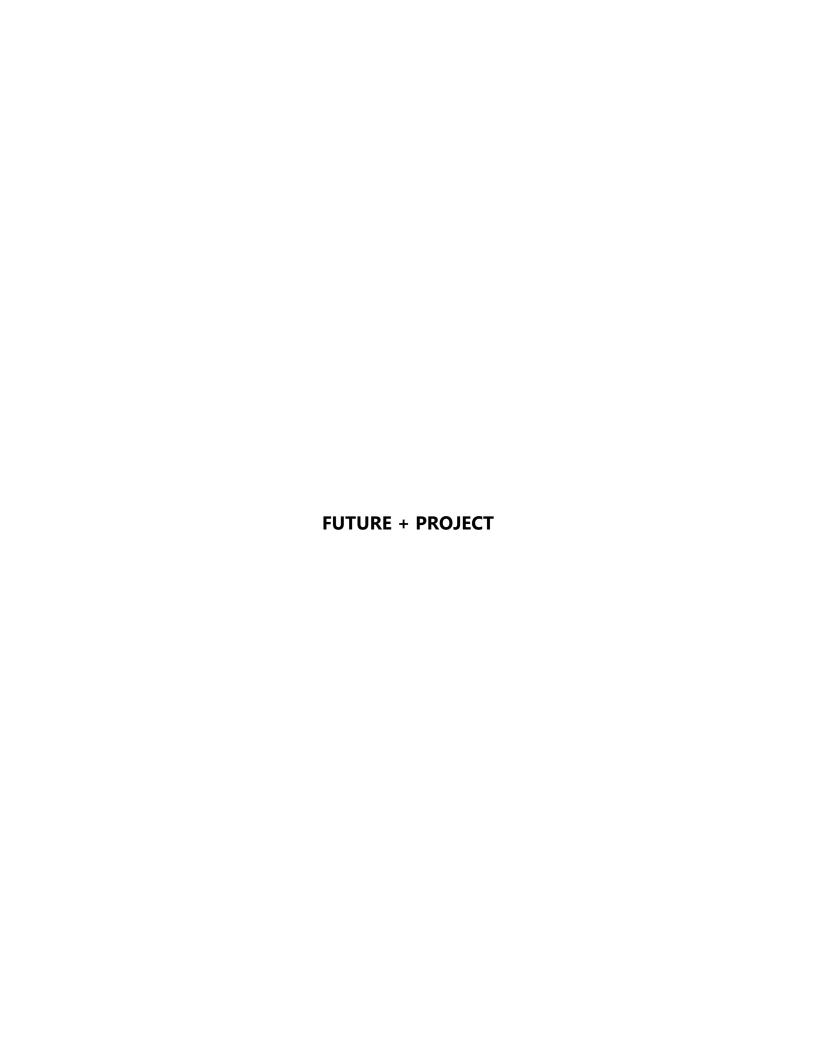
Intersection: 22: Platform Driveway Gate

Movement	EB	WB
Directions Served	T	Т
Maximum Queue (ft)	56	71
Average Queue (ft)	8	38
95th Queue (ft)	44	84
Link Distance (ft)	158	20
Upstream Blk Time (%)		2
Queuing Penalty (veh)		1
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 26: Park Century School Temporary Loading

Movement	NB	B8
Directions Served	L	T
Maximum Queue (ft)	67	81
Average Queue (ft)	24	34
95th Queue (ft)	58	83
Link Distance (ft)	92	8
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary



Movement	EB	EB	EB	EB	B14	B14	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	T	T	L	Т	Т	R	L	L
Maximum Queue (ft)	130	264	267	115	227	268	150	669	672	130	191	210
Average Queue (ft)	92	174	184	77	47	52	123	640	641	112	98	177
95th Queue (ft)	157	295	303	150	197	209	186	665	659	165	193	248
Link Distance (ft)		178	178		274	274		620	620			
Upstream Blk Time (%)		20	18		1	2		55	53			
Queuing Penalty (veh)		110	97		7	9		0	0			
Storage Bay Dist (ft)	105			90			125			105	185	185
Storage Blk Time (%)	21	22	30	1			15	53	53	16	1	4
Queuing Penalty (veh)	73	31	69	5			91	134	167	100	2	14

Intersection: 4: Robertson BI & Washington BI

Movement	NB	NB	NB	SB	SB	SB	SB
Directions Served	T	Т	R	L	L	T	TR
Maximum Queue (ft)	569	495	85	108	195	508	497
Average Queue (ft)	330	287	29	13	117	342	302
95th Queue (ft)	524	467	87	63	230	515	461
Link Distance (ft)	627	627				486	486
Upstream Blk Time (%)	2	1				5	3
Queuing Penalty (veh)	0	0				0	0
Storage Bay Dist (ft)			60	170	170		
Storage Blk Time (%)	28	51	1	0	0	41	
Queuing Penalty (veh)	62	26	2	0	1	47	

Intersection: 5: Landmark St & Washington Bl

Movement	EB	EB	EB	WB	WB	WB	B14	B14	B14	NB	NB	
Directions Served	Т	T	R	L	Т	Т	T	Т		L	R	
Maximum Queue (ft)	241	274	120	255	348	360	154	175	63	80	76	
Average Queue (ft)	87	112	45	82	166	191	21	25	3	48	36	
95th Queue (ft)	195	229	113	209	351	368	126	137	43	78	71	
Link Distance (ft)	708	708			274	274	178	178	178	15	15	
Upstream Blk Time (%)				0	8	10	2	3	0	46	13	
Queuing Penalty (veh)				0	61	81	11	15	1	40	12	
Storage Bay Dist (ft)			95	300								
Storage Blk Time (%)		8	0	0	8							
Queuing Penalty (veh)		11	1	1	9							

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	L	T	TR	L	Т	TR	L	Т	R	L	T	R
Maximum Queue (ft)	115	696	684	105	683	688	129	496	100	150	629	532
Average Queue (ft)	112	628	600	68	417	442	45	307	60	132	336	161
95th Queue (ft)	121	788	824	132	704	709	122	538	128	184	712	534
Link Distance (ft)		646	646		708	708		490			671	671
Upstream Blk Time (%)		73	33		4	5		14			12	6
Queuing Penalty (veh)		0	0		32	36		0			0	0
Storage Bay Dist (ft)	90			80			105		75	125		
Storage Blk Time (%)	92	10		30	31		0	53	1	50	7	
Queuing Penalty (veh)	411	17		179	24		0	65	5	137	11	

Intersection: 8: Platform Driveway Gate

Movement	WB
Directions Served	Т
Maximum Queue (ft)	63
Average Queue (ft)	29
95th Queue (ft)	76
Link Distance (ft)	9
Upstream Blk Time (%)	1
Queuing Penalty (veh)	0
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	37	79	68
Average Queue (ft)	12	57	18
95th Queue (ft)	36	81	51
Link Distance (ft)	9	28	15
Upstream Blk Time (%)	3	7	1
Queuing Penalty (veh)	0	11	3
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 10: Landmark St & Park Century School

Movement	EB	NB	SB	SB
Directions Served	LR	LT	Т	R
Maximum Queue (ft)	37	10	21	60
Average Queue (ft)	30	0	1	26
95th Queue (ft)	43	8	10	52
Link Distance (ft)	4	534	28	28
Upstream Blk Time (%)	5		0	4
Queuing Penalty (veh)	6		0	5
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 15:

Movement	EB	WB
Directions Served	T	R
Maximum Queue (ft)	4	46
Average Queue (ft)	0	42
95th Queue (ft)	4	61
Link Distance (ft)	8	4
Upstream Blk Time (%)	0	1
Queuing Penalty (veh)	0	1
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 16: Park Century School Loading

Movement	EB	EB	
Directions Served	Т	R	
Maximum Queue (ft)	105	39	
Average Queue (ft)	71	3	
95th Queue (ft)	120	23	
Link Distance (ft)	51		
Upstream Blk Time (%)	46	0	
Queuing Penalty (veh)	49	0	
Storage Bay Dist (ft)		25	
Storage Blk Time (%)	70	0	
Queuing Penalty (veh)	2	0	

Intersection: 20: Park Century School Loading

Movement	WB	WB
Directions Served	T	R
Maximum Queue (ft)	42	34
Average Queue (ft)	30	11
95th Queue (ft)	46	36
Link Distance (ft)	36	
Upstream Blk Time (%)	6	1
Queuing Penalty (veh)	7	0
Storage Bay Dist (ft)		25
Storage Blk Time (%)	6	1
Queuing Penalty (veh)	1	1

Intersection: 22: Park Century School Loading

Movement	SB	SB	B17
Directions Served	L	R	T
Maximum Queue (ft)	66	21	31
Average Queue (ft)	34	5	2
95th Queue (ft)	57	20	22
Link Distance (ft)	21		39
Upstream Blk Time (%)	13	0	1
Queuing Penalty (veh)	14	0	1
Storage Bay Dist (ft)		25	
Storage Blk Time (%)	13	0	
Queuing Penalty (veh)	1	1	

Network Summary

Movement	EB	EB	EB	EB	B14	B14	WB	WB	WB	WB	NB	NB
Directions Served	L	Т	Т	R	T	T	L	Т	T	R	L	L
Maximum Queue (ft)	130	278	278	115	370	368	150	458	417	130	189	210
Average Queue (ft)	113	254	254	104	334	335	127	252	223	101	85	177
95th Queue (ft)	156	265	266	148	389	383	179	389	358	159	175	256
Link Distance (ft)		178	178		274	274		620	620			
Upstream Blk Time (%)		60	58		33	37						
Queuing Penalty (veh)		457	444		256	280						
Storage Bay Dist (ft)	105			90			125			105	185	185
Storage Blk Time (%)	29	56	60	6			16	25	21	7	0	2
Queuing Penalty (veh)	149	87	203	33			49	46	36	21	0	8

Intersection: 4:

Movement	NB	NB	NB	SB	SB	SB	SB
Directions Served	T	T	R	L	L	T	TR
Maximum Queue (ft)	523	501	85	151	195	533	524
Average Queue (ft)	326	286	58	46	150	483	460
95th Queue (ft)	508	464	112	114	253	579	591
Link Distance (ft)	627	627				486	486
Upstream Blk Time (%)	1	0				44	36
Queuing Penalty (veh)	0	0				0	0
Storage Bay Dist (ft)			60	170	170		
Storage Blk Time (%)	30	53	3	0	0	62	
Queuing Penalty (veh)	59	60	12	0	1	120	

Intersection: 5:Landmark St & Washington BI

Movement	EB	EB	EB	WB	WB	WB	B14	B14	NB	NB	
Directions Served	T	T	R	L	Т	Т	Т	Т	L	R	
Maximum Queue (ft)	749	756	120	246	296	283	28	19	95	90	
Average Queue (ft)	700	717	62	105	118	126	2	1	62	57	
95th Queue (ft)	820	823	153	212	265	260	24	21	94	90	
Link Distance (ft)	708	708			274	274	178	178	15	15	
Upstream Blk Time (%)	17	28		0	1	0		0	62	58	
Queuing Penalty (veh)	129	214		0	5	1		0	68	63	
Storage Bay Dist (ft)			95	300							
Storage Blk Time (%)		67	0	0	1						
Queuing Penalty (veh)		51	2	0	1						

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	L	Т	TR	L	Т	TR	L	T	R	L	T	R
Maximum Queue (ft)	115	698	698	105	427	453	106	244	100	150	712	701
Average Queue (ft)	107	654	653	64	191	221	24	96	52	147	655	563
95th Queue (ft)	139	759	758	124	381	406	71	191	110	163	842	976
Link Distance (ft)		646	646		708	708		490			671	671
Upstream Blk Time (%)		54	59		0	0					85	49
Queuing Penalty (veh)		0	0		0	0					0	0
Storage Bay Dist (ft)	90			80			105		75	125		
Storage Blk Time (%)	39	43		20	15		0	12	3	89	6	
Queuing Penalty (veh)	239	104		70	9		0	15	6	237	13	

Intersection: 8: Platform Driveway Gate

Movement	EB	WB
Directions Served	Ţ	Т
Maximum Queue (ft)	93	70
Average Queue (ft)	13	38
95th Queue (ft)	59	84
Link Distance (ft)	158	9
Upstream Blk Time (%)	0	1
Queuing Penalty (veh)	0	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	62	102	74
Average Queue (ft)	36	72	25
95th Queue (ft)	68	107	58
Link Distance (ft)	9	28	15
Upstream Blk Time (%)	37	45	7
Queuing Penalty (veh)	20	74	10
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 10: Landmark St & Park Century School

Movement	EB	NB	SB	SB
Directions Served	LR	LT	T	R
Maximum Queue (ft)	53	144	50	51
Average Queue (ft)	29	25	4	15
95th Queue (ft)	54	97	26	36
Link Distance (ft)	4	534	28	28
Upstream Blk Time (%)	14		2	2
Queuing Penalty (veh)	9		1	1
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 15:

Movement	EB	WB
Directions Served	T	R
Maximum Queue (ft)	62	46
Average Queue (ft)	9	33
95th Queue (ft)	44	65
Link Distance (ft)	8	4
Upstream Blk Time (%)	2	0
Queuing Penalty (veh)	1	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 16: Park Century School Loading

Movement	EB	NB
Directions Served	T	R
Maximum Queue (ft)	104	22
Average Queue (ft)	48	2
95th Queue (ft)	94	12
Link Distance (ft)	51	109
Upstream Blk Time (%)	20	
Queuing Penalty (veh)	12	
Storage Bay Dist (ft)		
Storage Blk Time (%)	48	
Queuing Penalty (veh)	0	

Intersection: 20: Park Century School Loading

Movement	WB	SB
Directions Served	T	R
Maximum Queue (ft)	34	26
Average Queue (ft)	24	3
95th Queue (ft)	47	15
Link Distance (ft)	36	52
Upstream Blk Time (%)	3	
Queuing Penalty (veh)	1	
Storage Bay Dist (ft)		
Storage Blk Time (%)	3	
Queuing Penalty (veh)	0	

Intersection: 22: Park Century School Loading

Movement	EB	SB	B17
Directions Served	T	L	T
Maximum Queue (ft)	30	53	57
Average Queue (ft)	3	25	6
95th Queue (ft)	18	49	35
Link Distance (ft)	87	21	39
Upstream Blk Time (%)		4	0
Queuing Penalty (veh)		2	0
Storage Bay Dist (ft)			
Storage Blk Time (%)		4	
Queuing Penalty (veh)		0	

Network Summary

Movement	EB	EB	EB	EB	B14	B14	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	R	T	Т	L	T	Т	R	L	L
Maximum Queue (ft)	130	272	278	115	338	342	150	417	384	130	197	210
Average Queue (ft)	105	216	219	88	114	130	115	233	202	93	130	192
95th Queue (ft)	161	322	322	153	320	336	184	372	330	161	214	251
Link Distance (ft)		178	178		274	274		620	620			
Upstream Blk Time (%)		33	29		5	6						
Queuing Penalty (veh)		268	237		41	48						
Storage Bay Dist (ft)	105			90			125			105	185	185
Storage Blk Time (%)	25	32	40	2			11	26	19	6	3	13
Queuing Penalty (veh)	138	56	129	13			37	44	32	18	12	49

Intersection: 4: Robertson BI & Washington BI

Movement	NB	NB	NB	SB	SB	SB	SB
Directions Served	T	T	R	L	L	T	TR
Maximum Queue (ft)	676	670	85	153	195	537	534
Average Queue (ft)	581	561	66	49	166	506	505
95th Queue (ft)	769	773	114	114	254	522	522
Link Distance (ft)	627	627				486	486
Upstream Blk Time (%)	34	29				64	62
Queuing Penalty (veh)	0	0				0	0
Storage Bay Dist (ft)			60	170	170		
Storage Blk Time (%)	54	65	6	0	0	67	
Queuing Penalty (veh)	133	120	24	0	1	137	

Intersection: 5: Landmark St & Washington BI

Movement	EB	EB	EB	WB	WB	WB	B14	B14	B14	NB	NB	
Directions Served	Т	Т	R	L	Т	Т	Т	Т		L	R	
Maximum Queue (ft)	406	444	113	227	336	344	164	150	39	91	97	
Average Queue (ft)	165	187	26	88	173	187	32	32	1	60	69	
95th Queue (ft)	430	453	94	237	370	371	152	151	28	92	99	
Link Distance (ft)	708	708			274	274	178	178	178	15	15	
Upstream Blk Time (%)	0	1		0	14	17	3	3	0	48	34	
Queuing Penalty (veh)	2	4		0	72	87	9	9	0	49	35	
Storage Bay Dist (ft)			95	300								
Storage Blk Time (%)		26	0	0	14							
Queuing Penalty (veh)		15	1	1	10							

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	L	Т	TR	L	Т	TR	L	Т	R	L	T	R
Maximum Queue (ft)	115	698	693	105	712	721	124	453	100	150	412	97
Average Queue (ft)	113	667	647	86	444	461	39	212	69	107	146	27
95th Queue (ft)	121	685	799	138	840	844	104	396	130	172	322	72
Link Distance (ft)		646	646		708	708		490			671	671
Upstream Blk Time (%)		85	40		7	8		1				
Queuing Penalty (veh)		0	0		36	42		0				
Storage Bay Dist (ft)	90			80			105		75	125		
Storage Blk Time (%)	88	10		62	21		0	37	5	20	5	
Queuing Penalty (veh)	559	33		235	16		1	60	16	48	7	

Intersection: 8: Platform Driveway Gate

Movement	EB	WB
Directions Served	Т	Т
Maximum Queue (ft)	109	71
Average Queue (ft)	16	55
95th Queue (ft)	74	86
Link Distance (ft)	158	9
Upstream Blk Time (%)	0	3
Queuing Penalty (veh)	0	3
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	62	91	71
Average Queue (ft)	44	52	31
95th Queue (ft)	69	91	58
Link Distance (ft)	9	28	15
Upstream Blk Time (%)	24	15	6
Queuing Penalty (veh)	28	13	8
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 10: Landmark St & Park Century School

Movement	EB	NB	SB	SB
Directions Served	LR	LT	Т	R
Maximum Queue (ft)	44	25	15	33
Average Queue (ft)	26	2	1	9
95th Queue (ft)	48	18	7	24
Link Distance (ft)	4	534	28	28
Upstream Blk Time (%)	3		0	1
Queuing Penalty (veh)	2		0	0
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 15:

Movement	EB	WB
Directions Served	T	R
Maximum Queue (ft)	58	46
Average Queue (ft)	18	24
95th Queue (ft)	61	60
Link Distance (ft)	8	4
Upstream Blk Time (%)	0	0
Queuing Penalty (veh)	0	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 16: Park Century School Loading

Movement	EB	NB
Directions Served	Т	R
Maximum Queue (ft)	94	24
Average Queue (ft)	39	6
95th Queue (ft)	79	20
Link Distance (ft)	51	109
Upstream Blk Time (%)	12	
Queuing Penalty (veh)	5	
Storage Bay Dist (ft)		
Storage Blk Time (%)	41	
Queuing Penalty (veh)	0	

Intersection: 20: Park Century School Loading

Movement	WB	SB	
Directions Served	T	R	
Maximum Queue (ft)	34	31	
Average Queue (ft)	17	7	
95th Queue (ft)	43	26	
Link Distance (ft)	36	52	
Upstream Blk Time (%)	1	0	
Queuing Penalty (veh)	0	0	
Storage Bay Dist (ft)			
Storage Blk Time (%)	1		
Queuing Penalty (veh)	0		

Intersection: 22: Park Century School Loading

Movement	EB	SB	B17
Directions Served	Ţ	L	Т
Maximum Queue (ft)	33	42	64
Average Queue (ft)	10	21	16
95th Queue (ft)	34	45	58
Link Distance (ft)	87	21	39
Upstream Blk Time (%)		2	0
Queuing Penalty (veh)		1	0
Storage Bay Dist (ft)			
Storage Blk Time (%)		2	
Queuing Penalty (veh)		0	

Network Summary

