

APPENDIX M-1

Traffic Impact Assessment Report Update Dated December 20, 2016

Revised FINAL

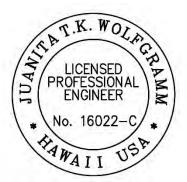
Pi'ilani Promenade Traffic Impact Analysis Report Update

Kihei, Maui

December 20, 2016

Prepared for
Pi'ilani Promenade North LLC
Pi'ilani Promenade South LLC
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Table of Contents

I.	IN	TRODUCTION	1
II.	EX	ISTING (2016) CONDITIONS	4
A]	Existing Geometric Configuration	4
	1.	Existing Roadway Configuration	4
	2.	Existing Intersection Configuration	5
В	. 1	Existing Traffic Volumes	7
	1.	Existing 24-Hour Roadway Volumes	7
	2.	Existing Peak Hour Volumes	9
	3.	Existing Multi-Modal Volumes	13
C	:.]	Existing Intersection Level of Service	15
	1.	LOS Methodology	15
	2.	Existing Intersection LOS Conditions	17
D).]	Mitigation Measures for Existing Conditions	20
	1.	Signal Warrant Methodology	20
	2.	Existing Intersection Signal Warrant Analysis	21
III.	FU	TURE WITHOUT PROJECT CONDITIONS	22
A]	Future Roadway Construction	22
В			
	.]	Future Surrounding Area Development	22
	1.	Future Surrounding Area Development	
			22
	1.	Kaiwahine Village	22
	1. 2.	Kaiwahine Village	22 22 24
	 2. 3. 	Kaiwahine Village Maui Lu Resort Kihei High School	22 22 24
	 2. 3. 4. 	Kaiwahine Village Maui Lu Resort Kihei High School Kenolio Apartments	22 22 24 24
	 1. 2. 3. 4. 5. 	Kaiwahine Village Maui Lu Resort Kihei High School Kenolio Apartments Kihei Residential	22 22 24 24 24
	 1. 2. 3. 4. 5. 6. 	Kaiwahine Village Maui Lu Resort Kihei High School Kenolio Apartments Kihei Residential Krausz Companies Commercial Mixed-Use Development (Downtown Kihei)	22 24 24 24 25
	 1. 2. 3. 4. 5. 6. 7. 	Kaiwahine Village Maui Lu Resort Kihei High School Kenolio Apartments Kihei Residential Krausz Companies Commercial Mixed-Use Development (Downtown Kihei) Honua'ula Affordable Housing	22 24 24 25 25
C	1. 2. 3. 4. 5. 6. 7. 8. 9.	Kaiwahine Village Maui Lu Resort Kihei High School. Kenolio Apartments Kihei Residential. Krausz Companies Commercial Mixed-Use Development (Downtown Kihei) Honua'ula Affordable Housing. Maui Research and Technology Park	22 24 24 25 25
C	1. 2. 3. 4. 5. 6. 7. 8. 9.	Kaiwahine Village Maui Lu Resort Kihei High School Kenolio Apartments Kihei Residential Krausz Companies Commercial Mixed-Use Development (Downtown Kihei) Honua'ula Affordable Housing Maui Research and Technology Park Other Developments	22 24 24 25 25 25 25
	1. 2. 3. 4. 5. 6. 7. 8. 9.	Kaiwahine Village Maui Lu Resort Kihei High School Kenolio Apartments Kihei Residential Krausz Companies Commercial Mixed-Use Development (Downtown Kihei) Honua'ula Affordable Housing Maui Research and Technology Park Other Developments Future Geometric Configuration	22 24 24 25 25 25 25
	1. 2. 3. 4. 5. 6. 7. 8. 9. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Kaiwahine Village Maui Lu Resort Kihei High School Kenolio Apartments Kihei Residential Krausz Companies Commercial Mixed-Use Development (Downtown Kihei) Honua'ula Affordable Housing Maui Research and Technology Park Other Developments Future Geometric Configuration Future Traffic Volumes	22 24 24 25 25 25 25 26

E. Future Without Project Intersection Level of Service	33
1. Future (2025) Without Project LOS	33
2. Future (2032) Without Project LOS	35
F. Future Without Project Mitigation Measures	37
1. Future (2025) Without Project Mitigation	37
2. Future (2032) Without Project Mitigation	37
V. FUTURE WITH PROJECT CONDITIONS	38
A. Future With Project Geometric Configuration	38
B. Future With Project Traffic Volumes	38
1. Project Related Volumes	38
C. Future With Project Level of Service	52
1. Future (2025) With Project LOS	52
2. Future (2032) With Project LOS	54
D. Future With Project Mitigation Measures	57
1. Future (2025) With Project Mitigation	57
2. Future (2032) With Project Mitigation	57
V. SUMMARY	59
VI. REFERENCES	60
I ist of Annendices	

List of Appendices

- Appendix A HDOT Comment-Response Matrix
- Appendix B Intersection Peak Period Traffic Counts and 24-Hour Traffic Data
- Appendix C County of Maui Bus Routes and Timetables
- Appendix D Analysis Reports Existing (2016) Conditions
- Appendix E County of Maui South Maui Development Maps
- Appendix F Analysis Reports Future (2025) and (2032) Without Project Conditions
- Appendix G Pedestrian Circulation
- Appendix H Analysis Reports Future (2025) and (2032) With Project Conditions

<u>List of Figures</u>	
Figure 1: Project Location Map	2
Figure 2: Site Plan	3
Figure 3: Existing (2016) Lane Configuration	8
Figure 4: Existing (2016) AM Peak Hour Volumes	10
Figure 5: Existing (2016) PM Peak Hour Volumes	11
Figure 6: Existing (2016) Saturday Peak Hour Volumes	12
Figure 7: Surrounding Area Developments	23
Figure 8: Future Without Project Lane Configuration	27
Figure 9: Future (2025 and 2032) Without Project AM Peak Hour Volumes	30
Figure 10: Future (2025 and 2032) Without Project PM Peak Hour Volumes	31
Figure 11: Future (2025 and 2032) Without Project Saturday Peak Hour Volumes	32
Figure 12: Future With Project Lane Configuration	39
Figure 13: Future Trip Distribution	44
Figure 14: Project Related Trips (2025 and 2032) AM Peak Hour	45
Figure 15: Project Related Trips (2025 and 2032) PM Peak Hour	46
Figure 16: Project Related Trips (2025 and 2032) Saturday Peak Hour	47
Figure 17: Honua'ula Affordable Housing Project Related Trips – AM, PM and Saturday	Peak Hours48
Figure 18: Future (2025 and 2032) With Project AM Peak Hour Volumes	49
Figure 19: Future (2025 and 2032) With Project PM Peak Hour Volumes	50
Figure 20: Future (2025 and 2032) With Project Saturday Peak Hour Volumes	51
List of Tables	
Table 1: Existing Roadway ADT	
Table 2: Intersection Peak Hours	
Table 3: Existing Intersection Peak Hour Heavy Vehicle Volumes and Percentage	
Table 4: Bus Daily Ridership	
Table 5: Existing Intersection Peak Hour Pedestrian Volumes	
Table 6: Existing Intersection Peak Hour Bicycle Volumes	
Table 7: LOS Criteria for Unsignalized Intersections	
Table 8: LOS Criteria for Signalized Intersections	
Table 9: Existing (2016) Intersection Level of Service	
Table 10: Other Project Related Trips	
Table 11: Future (2025) Without Project Intersection Level of Service	
Table 12: Future (2032) Without Project Intersection Level of Service	
Table 13: Development Trip Generation Rates	
Table 14: Project Related Trip Definitions	
Table 15: Phased Project Related Trip Generation Volumes	
Table 16: Project Related Trip Generation Breakdown	
Table 17: Future (2025) With Project Intersection Level of Service	
Table 18: Future (2032) With Project Intersection Level of Service	55

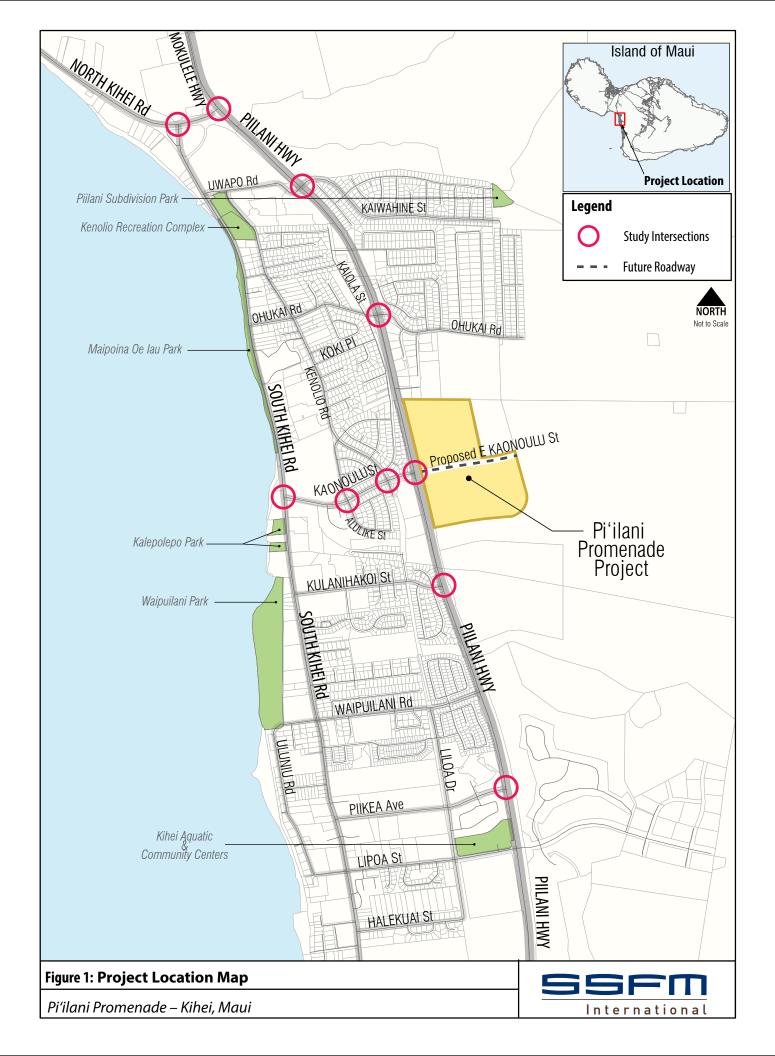
I. INTRODUCTION

Pi'ilani Promenade is a planned multi-use development proposed on 68-acres of undeveloped land in Kihei on the island of Maui (see project location map in Figure 1). Pi'ilani Promenade is proposing to include 530,000 square feet of commercial area, 5 acres of light industrial uses, and 226 units of one and two-bedroom rental apartments (see site plan in Figure 2). The project site is approximately 10 miles south of Kahului Airport on the east side of Pi'ilani Highway with access coming off of Pi'ilani Highway through the intersection with Kaonoulu Street.

The developer anticipates having a full build-out and occupancy by the year 2032. Access to and from the project will be from an easterly extension of Kaonoulu Street, which will be called East Kaonoulu Street. Hawai'i Department of Transportation (HDOT) plans are for a future extension of East Kaonoulu Street to provide a mauka-makai (mountain to ocean) connector between Kihei and Upcountry Maui. The full construction of East Kaonoulu Street to Upcountry Maui is not currently funded and, therefore, the traffic impact of the full construction of this road will not be included in the analysis of future conditions for the year 2032.

A traffic impact analysis report (TIAR) was completed by Phillip Rowell Associates (PRA) in June 6, 2014 for Pi'ilani Promenade. HDOT provided comments on the report in a letter dated October 6, 2014 letter. Subsequent coordination between HDOT, the owner, and traffic engineer resulted in a comment-response matrix (see Appendix A) that addressed outstanding concerns and ways to resolve concerns.

This current report is an update to the June 6, 2014 TIAR. It will evaluate existing (2016) conditions, assess impacts to the surrounding area as a result of the proposed development and changes associated with anticipated surrounding area development. As stated previously, the proposed master planned project includes multifamily residential, light industrial and business commercial uses. The initial phases of the project are proposed to include multifamily rental units as well as the light industrial and a portion of the business commercial component of the project. There is an existing demand for the multifamily rental housing on Maui which is addressed in the initial phases. The light industrial and business commercial components of the project will be developed as driven by market demand for such space.



Pi'ilani Promenade TIAR SSFM International

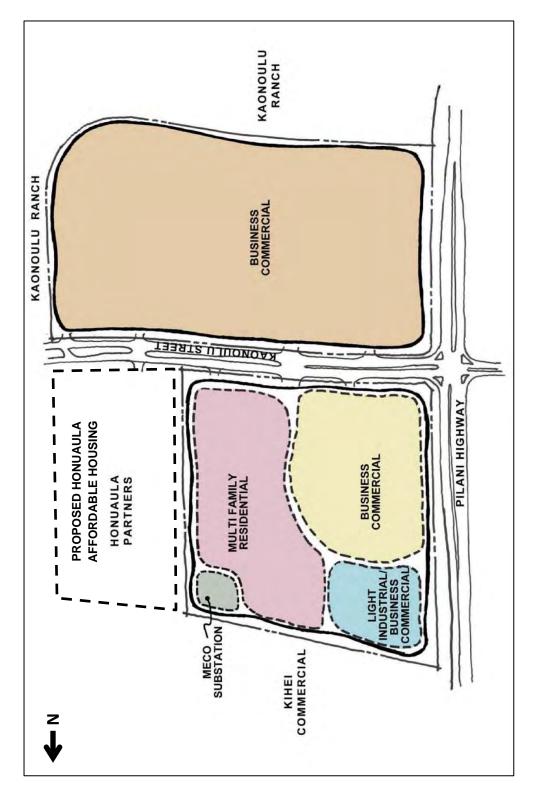


Figure 2: Site Plan

II. EXISTING (2016) CONDITIONS

The area surrounding the project site is suburban in nature, consisting of single family and multifamily homes with some commercial uses that include shopping and resort hotels. Pi'ilani Highway is the primary arterial that provides north-south access along the mauka side of Kihei. South Kihei Road runs parallel to Pi'ilani Highway along the coast, and provides more direct access to residential, commercial, and beach uses. Mauka-makai connectors such as Kaonoulu Street exist every ¼-mile to ½-mile and are controlled by stop signs or traffic signals at the major intersections.

A. Existing Geometric Configuration

1. Existing Roadway Configuration

Pi'ilani Highway (State Route 31) is a four-lane, undivided highway, near the project site, with a north-south orientation connecting Mokulele Highway to the north with the Wailea Resort to the south. The posted speed limit is 40 miles per hour (mph) south of Kaiwahine Street/Uwapo Road and 45 mph north of Kaiwahine Street/Uwapo Road.

Ohukai Road is a two-lane, two-way street, but widens to provide two approach lanes as it approaches Pi'ilani Highway. The posted speed limit is 20 mph.

Kaonoulu Street currently connects Pi'ilani Highway with South Kihei Road. Currently, it is a two-lane, two-way street with separate left turn lanes at intersections. The posted speed limit is 20 mph.

Kaiwahine Street is a two-lane, two-way residential collector street. The posted speed limit is 20 mph. Residential parking is allowed along both sides of the street.

Uwapo Road is an extension of Kaiwahine Street west of Pi'ilani Highway to South Kihei Road. Uwapo Road is a two-lane, two-way roadway. There is no development along the north side and there are multi-family residential unit along the south side. No parking is allowed along either side. The assumed speed limit is 20 miles per hour.

Kulanihakoi Street currently connects Pi'ilani Highway with South Kihei Road. It is a two-lane, two-way street. Residential parking is allowed on both sides of the street. The posted speed limit is 20 mph.

Pi'ikea Avenue also connects Pi'ilani Highway with South Kihei Road. It is a four-lane, two-way street between Pi'ilani Highway and Liloa Drive. This segment provides access to commercial areas on the north side of Pi'ikea Avenue and to multifamily residential units on the south side. There is a roundabout at the intersection with Liloa Drive with rectangular rapid flashing beacons for each pedestrian crossing. Pi'ikea Avenue becomes a two-lane, two-way street between Liloa Drive and South Kihei Road. The posted speed limit is 20 mph.

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South Kihei Road is a two-lane, two-way roadway which starts at North Kihei Road on the north and travels south through Kihei. This roadway provides access to residential, commercial, parks and hotel areas. The posted speed limit is 30 mph.

North Kihei Road is primarily an undivided, two-lane, two-way street. The posted speed limit is 30 mph near South Kihei Road and Mokulele Highway and is 45 mph west of South Kihei Road. There is a center lane that provides left turns for opposing directions west of South Kihei Road to access beach front hotels.

2. Existing Intersection Configuration

Primary study intersections in the project area, based on prior consultation with HDOT, include the following:

- 1. South Kihei Road and North Kihei Road
- 2. Pi'ilani Highway and North Kihei Road
- 3. Pi'ilani Highway and Uwapo Road/Kaiwahine Street
- 4. Pi'ilani Highway and Ohukai Road
- 5. Pi'ilani Highway and Kaonoulu Street
- 6. Pi'ilani Highway and Kulanihakoi Street
- 7. Pi'ilani Highway and Pi'ikea Avenue
- 8. Kaonoulu Street and Kenolio Road
- 9. Kaonoulu Street and Alulike Street
- 10. Kaonoulu Street and South Kihei Road

Existing (2016) lane configurations, marked pedestrian crosswalks, and traffic controls at the study intersections are shown in Figure 3.

The study intersections were selected in consultation with HDOT. There are no signalized intersections north of North Kihei Road or west of South Kihei Road for several miles. The intersection of Pi'ilani Highway at Pi'ikea Avenue is the southernmost intersection and is approximately 1.25 miles from the project.

The intersection of Pi'ilani Highway at Ohukai Road is located approximately 2,950 feet north of Kaonoulu Street. The intersection is a four-legged signalized intersection. The northbound and southbound approaches are Pi'ilani Highway and the eastbound and westbound approaches are Ohukai Road. There are separate left turn lanes and separate right turn lanes along the northbound and southbound approaches of Pi'ilani Highway. The northbound and southbound left turns are protected. Recent construction added dedicated left-turn lanes for the eastbound and westbound approaches with a through lane and separate right turn lane. The eastbound and westbound left turn traffic signals are protected only.

The intersection of Pi'ilani Highway at Kaiwahine Street and Uwapo Road is located approximately 1,290 feet north of Ohukai Road along Pi'ilani Highway. The intersection is a four-leg signalized intersection. The northbound and southbound approaches are Pi'ilani Highway, the eastbound approach is Uwapo Road and the westbound approach is Kaiwahine Street. There are

separate left turn lanes and separate right turn lanes along the northbound and southbound approaches of Pi'ilani Highway. Left turns are protected. The eastbound and westbound approaches each have an optional left turn or through lane and a separate right turn lane. The eastbound and westbound left turns are permitted.

The intersection of Pi'ilani Highway at North Kihei Road is located approximately 2,175 feet north of Uwapo Road along Pi'ilani Highway. The intersection is a four-legged signalized intersection. The northbound approach is Pi'ilani Highway, the southbound approach is Mokulele Highway and the eastbound and westbound approaches are North Kihei Road. The northbound approach has two left turn lanes, two through lanes and a right turn lane. The southbound approach has one left turn lane, two through lanes and one right turn lane. The northbound and southbound left turns are protected. The eastbound approach has one left turn lane, a shared through/left turn lane and two right turn lanes. Right turns are allowed on right turn green arrows only. The westbound approach is a left turn lane and a shared through/right turn lane.

The intersection of North Kihei Road at South Kihei Road is located approximately 1,500 feet west of Pi'ilani Highway along North Kihei Road. The intersection is a three-legged signalized intersection. The northbound approach is South Kihei Road. The eastbound and westbound approaches are North Kihei Road. The northbound approach has two left turn lanes and one right turn lane. The eastbound approach has one through lane and one right turn lane. The westbound approach has one left turn lane and two through lanes. The westbound left turns are protected.

The intersection of Pi'ilani Highway at Kaonoulu Street is a three-legged unsignalized intersection. The northbound and southbound approaches are Pi'ilani Highway and the eastbound approach is Kaonoulu Street. The northbound approach has one left turn lane and two through lanes. The southbound approach has two through lanes and one right turn lane. The eastbound approach is the stop sign controlled approach and has one left turn lane and one right turn lane. The eastbound and southbound right turns are channelized.

The intersection of Pi'ilani Highway at Kulanihakoi Street is located approximately 2,100 feet south of Kaonoulu Street along Pi'ilani Highway. The intersection is a three-legged unsignalized intersection. The northbound and southbound approaches are Pi'ilani Highway. The northbound approach has one left turn lane and two through lanes. The southbound approach has two through lanes and one right turn lane. The eastbound approach is Kulanihakoi Street and is the stop sign controlled approach. The Kulanihakoi Street approach has one left turn lane and one right turn lane. There is a refuge lane for the eastbound left turning movements. The eastbound and southbound right turns are channelized.

The intersection of Pi'ilani Highway at Pi'ikea Avenue is located approximately 3,850 feet south of Kulanihakoi Street. The intersection is a three-legged signalized intersection. The northbound and southbound approaches are Pi'ilani Highway and the eastbound approach is Pi'ikea Avenue. The northbound approach has one left turn lane and two through lanes. The northbound left turns are protected. The southbound approach has two through lanes and one right turn lane. The

eastbound approach has one left turn lane and one right turn lane. The eastbound and southbound right turns are channelized.

The intersection of South Kihei Road at Kaonoulu Street is located approximately 3,230 along Kaonoulu Street west of Pi'ilani Highway. The intersection is a three-legged, stop sign controlled intersection. The northbound and southbound approaches are South Kihei Road. The northbound approach has one shared through/right turn lane. The southbound approach has one shared through/left turn lane. The westbound approach is Kaonoulu Street and is the controlled approach. The westbound approach has one left turn lane and one right turn lane.

The intersection of Kaonoulu Street at Kenolio Road is located approximately 500 feet along Kaonoulu Street west of Pi'ilani Highway. The intersection is a four-legged stop sign controlled intersection. The eastbound and westbound approaches are Kaonoulu Street and the northbound and southbound approaches are Kenolio Road. The northbound and southbound approaches are the controlled approaches. Each approach has a left turn lane and a shared through/right turn lane.

The intersection of Kaonoulu Street at Alulike Street is located approximately 830 feet west of Kenolio Street. The intersection is a four-legged stop sign controlled intersection. The eastbound and westbound approaches each have one left turn lane and a shared through/right turn lane. The northbound and southbound approaches are the controlled approaches and each have one lane for all movements.

B. Existing Traffic Volumes

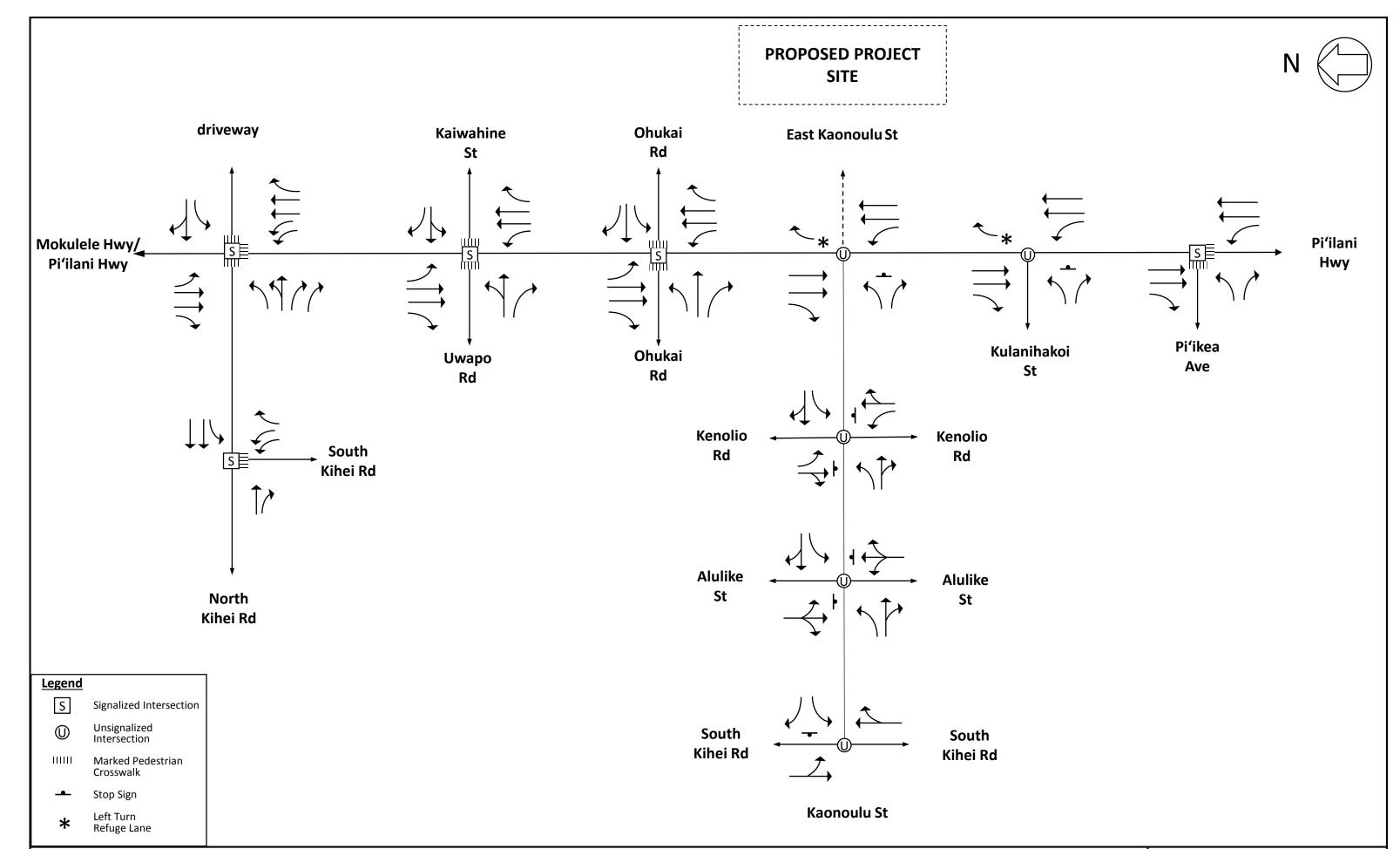
1. Existing 24-Hour Roadway Volumes

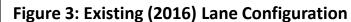
Average daily traffic (ADT) along Pi'ilani Highway between Kaonoulu Street and Kulanihakoi Street taken from HDOT *Historical Traffic Station Maps* is shown in Table 1. The 2013 ADT along Pi'ilani Highway, is approximately 34,100 vehicles per day (vpd). No weekend 24-hour roadway data are available from HDOT. Detailed 24-hour counts are included in Appendix B.

RoadwayStationLocationYearADTPi'ilani HighwayB74 0031 00000Between Kaonoulu Street and Kulanihakoi Street201334,100

Table 1: Existing Roadway ADT

Source: *Historical Traffic Station Maps* (HDOT)





Piʻilani Promenade - Kihei , Maui



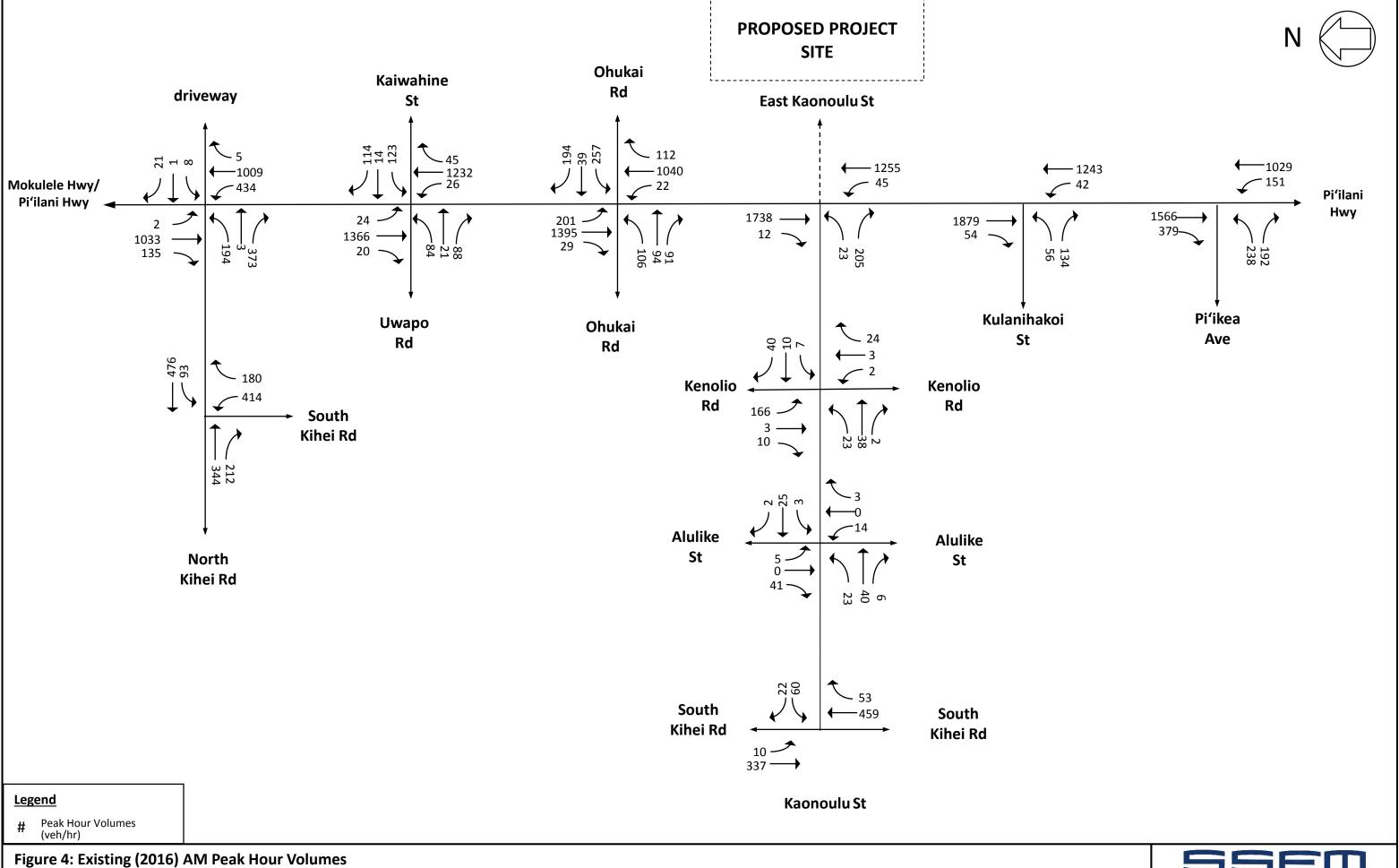
2. Existing Peak Hour Volumes

Intersection peak period turning movement traffic counts were taken on Tuesday, January 12, 2016. These counts also included the tabulation of heavy vehicles, bicycles, and pedestrian movements at all intersections. Counts were taken during the AM and PM peak periods on a weekday from 6:00 to 9:00 AM and 3:00 to 6:00 PM, respectively and during the mid-day peak period on a Saturday from 10:00 AM to 2:00 PM.

Peak hours varied per intersection and are provided in Table 2. AM, PM and Saturday peak hour vehicular volumes are shown in Figure 4, Figure 5 and Figure 6, respectively. Appendix B includes the detailed traffic count data.

Table 2: Intersection Peak Hours

Intersection	AM Peak Hour	PM Peak Hour	Saturday Peak Hour
Pi'ilani Highway and Ohukai Road	7:15 – 8:15 AM	3:15 – 4:15 PM	11:45 AM – 12:45 PM
Pi'ilani Highway and Kaiwahine Street	7:15 – 8:15 AM	3:30 – 4:30 PM	11:15 AM – 12:15 PM
Pi'ilani Highway and North Kihei Road/Mokulele Highway	7:15 – 8:15 AM	3:30 – 4:30 PM	11:15 AM – 12:15 PM
North Kihei Road and South Kihei Road	7:00 – 8:00 AM	3:45 – 4:45 PM	12:30 – 1:30 PM
Pi'ilani Highway and Pi'ikea Avenue	7:30 – 8:30 AM	3:30 – 4:30 PM	12:00 – 1:00 PM
Pi'ilani Highway and Kaonoulu Street	7:15 – 8:15 AM	3:15 – 4:15 PM	11:15 AM – 12:15 PM
South Kihei Road and Kaonoulu Street	7:15 – 8:15 AM	4:30 – 5:30 PM	12:15 – 1:15 PM
Pi'ilani Highway and Kulanihakoi Street	7:15 – 8:15 AM	3:15 – 4:15 PM	11:00 AM – 12:00 PM
Kenolio Road and Kaonoulu Street	7:15 – 8:15 AM	4:45 – 5:45 PM	10:15 – 11:15 AM
Alulike Street and Kaonoulu Street	8:00 – 9:00 AM	4:45 – 5:45 PM	10:00 – 11:00 AM



International

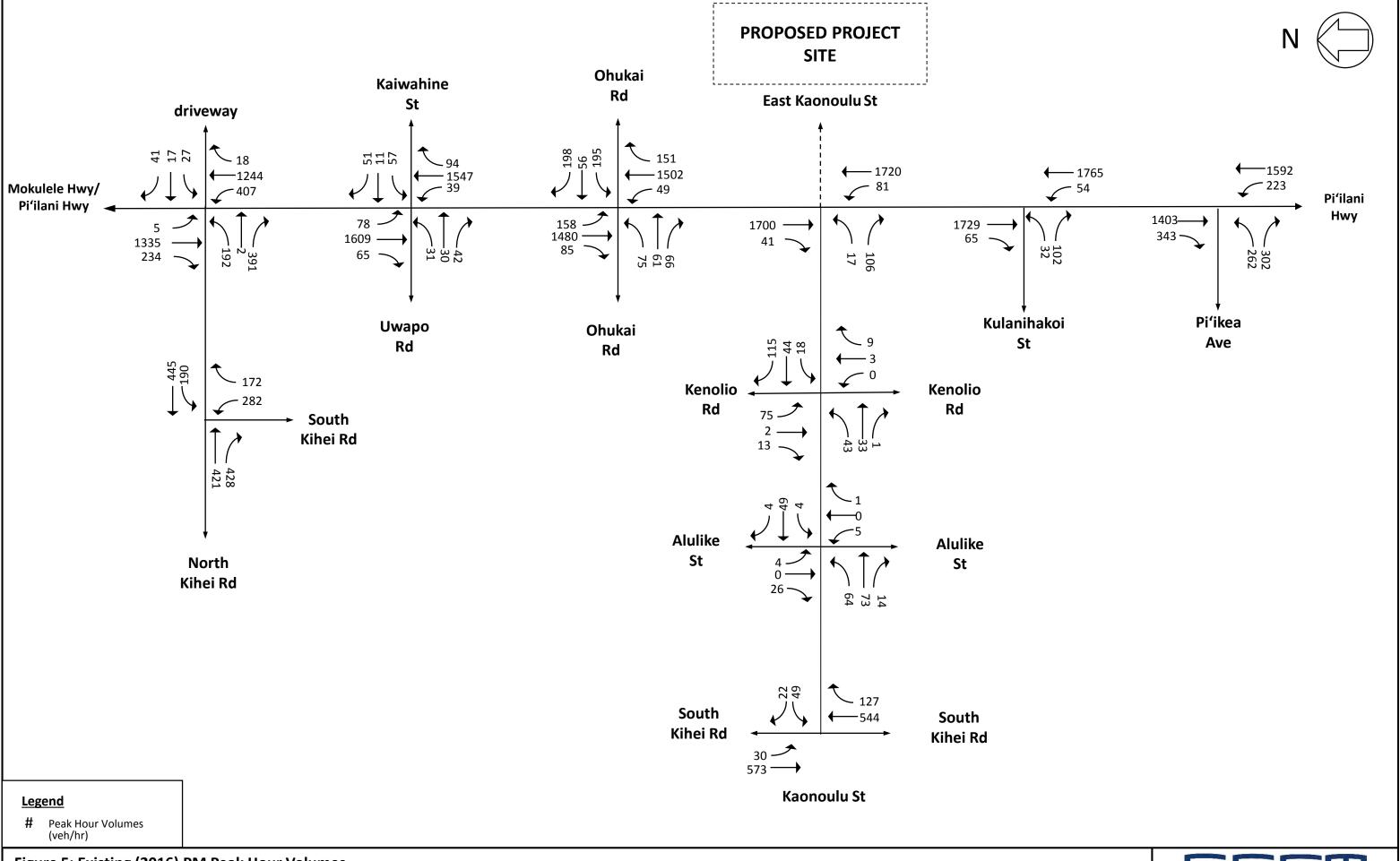


Figure 5: Existing (2016) PM Peak Hour Volumes

International

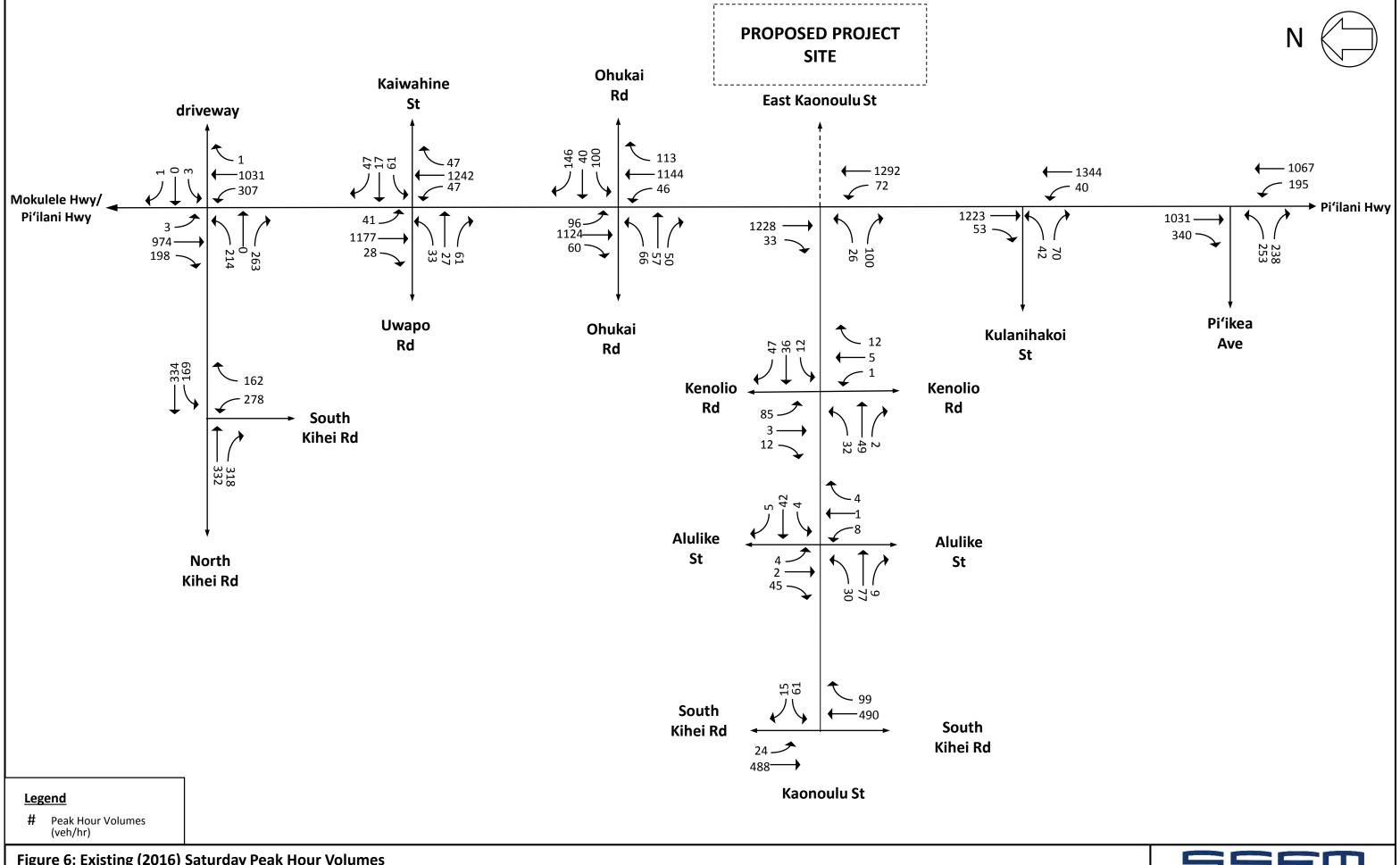


Figure 6: Existing (2016) Saturday Peak Hour Volumes

Piʻilani Promenade - Kihei, Maui

3. Existing Multi-Modal Volumes

a) Heavy Vehicles and Buses

Heavy vehicles included public transit buses, tourist bus/trolleys, delivery trucks, and other large commercial vehicles. The heavy vehicle intersection peak hour volume and percentage of heavy vehicles compared to the total vehicles counted is shown in Table 3. The percentages of heavy vehicles counted are relatively small, ranging from 0.4% to 2.5%.

Table 3: Existing Intersection Peak Hour Heavy Vehicle Volumes and Percentage

Intersection	AM Peak	K Hour	PM Peal	K Hour	Saturday Peak		
					Hour		
	Volume	%	Volume	%	Volume	%	
Pi'ilani Highway and Ohukai Road	69	1.9	67	1.6	42	1.4	
Pi'ilani Highway and Kaiwahine Street	62	2.0	68	1.9	24	0.8	
Pi'ilani Highway and North Kihei Road/Mokulele Highway	72	2.2	81	2.1	39	1.3	
North Kihei Road and South Kihei Road	25	1.5	26	1.3	21	1.3	
Pi'ilani Highway and Pi'ikea Avenue	70	2.0	52	1.3	31	1.0	
Pi'ilani Highway and Kaonoulu Street	66	2.0	66	1.8	31	1.1	
South Kihei Road and Kaonoulu Street	11	1.2	8	0.6	13	1.1	
Pi'ilani Highway and Kulanihakoi Street	66	1.9	66	1.8	30	1.1	
Kenolio Road and Kaonoulu Street	3	0.9	0	0.0	2	0.7	
Alulike Street and Kaonoulu Street	4	2.5	1	0.4	2	0.9	

The County of Maui public transit, Maui Bus, has two routes in the project area: Kihei Islander Route 10 and Kihei Villager Route 15. Both routes travel along South Kihei Road in the northbound and southbound directions. Route 10 has two busses running continuously along South Kihei Road from the Queen Kaʻahumanu Center to Wailea Ike Drive throughout the day from 5:30 AM to 9:30 PM. Within the study area there are seven bus stops each in the northbound and southbound direction. Route 15 has one bus running continuously along Kihei Road from Maʻalaea Harbor Village to the Piʻilani Shopping Center. The two routes share stops along South Kihei Road from Uwapo Road to Piʻilani Shopping Center. The bus runs from 6:05 AM to 8:55 PM. Table 4 provides ridership at several stops within or near the study area. Appendix C includes bus route maps and timetables.

Table 4: Bus Daily Ridership

Stop #	May: Dug Stan	Daily Totals				
(Geoid)	Maui Bus Stop	Boarding	Alighting			
1036	Uwapo St/S. Kihei Rd	39	34			
1039	Ohukai Rd/S. Kihei Rd	28	22			
1041	Kaonoulu St/S. Kihei Rd	16	25			
1043	Kulanihakoi St/S. Kihei Rd	22	45			
1045	Waipuilani Rd/S. Kihei Rd	17	58			
1047	Pi'ikea Ave/S. Kihei Rd	20	51			
1038	Pi'ilani Shopping Center	109	102			
1181	Lipoa St/Haggai Institute	6	3			
1048	St Theresa's Church	17	17			
1051	Welakahoa Rd/S. Kihei Rd	7	15			
1050	Welakahoa Rd/S. Kihei Rd	12	3			
1129	Lipoa St	11	26			
1182	Lipoa St/Liloa Dr	8	3			
1046	Pi'ikea Ave/S. Kihei Rd	54	4			
1044	Waipuilani Rd/S. Kihei Rd	18	6			
1042	Kulanihakoi St/S. Kihei Rd	22	16			
1040	Kaonoulu St/S. Kihei Rd	22	31			
1037	Ohukai St/S. Kihei Rd	29	31			
1035	Uwapo Rd/S. Kihei Rd	36	39			
1034	Ma'alaea Harbor Village/Maui Ocean Ctr	68	54			
Totals		561	585			

Source: County of Maui, Maui Bus Public Transit System (2014)

b) Pedestrians

Small pedestrian volumes were counted at most study intersections during the AM, PM and Saturday peak hours (see Table 5). This is a result of the lack of sidewalks or pedestrian facilities, and the suburban nature of the development along Pi'ilani Highway and areas in mauka Kihei. Conditions and resources along South Kihei Road are more amenable to pedestrian use which is reflected in the higher volume at the one intersection. Other intersections with higher pedestrian volumes were located in the more residential areas.

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Table 5: Existing Intersection Peak Hour Pedestrian Volumes

Intersection	Peak Hour Pedestrian Volumes					
	AM	PM	Saturday			
Pi'ilani Highway and Ohukai Road	9	8	8			
Pi'ilani Highway and Kaiwahine Street	17	11	5			
Pi'ilani Highway and North Kihei Road/Mokulele Highway	2	2	0			
North Kihei Road and South Kihei Road	1	0	2			
Pi'ilani Highway and Pi'ikea Avenue	2	3	5			
Pi'ilani Highway and Kaonoulu Street	1	1	0			
South Kihei Road and Kaonoulu Street	24	21	18			
Pi'ilani Highway and Kulanihakoi Street	0	0	0			
Kenolio Road and Kaonoulu Street	18	10	8			
Alulike Street and Kaonoulu Street	20	14	5			

c) Bicycles

Moderate bicycle volumes were counted at the project intersections during the AM, PM and Saturday peak hours (see Table 6) near the project area. Saturday volumes were higher than weekday which is reflective of the use of the roads more for recreational riding than commuting. Pi'ilani Highway is a designated bike route with designated travel in the paved shoulders.

Table 6: Existing Intersection Peak Hour Bicycle Volumes

Intersection	AM Peak	PM Peak	Saturday Peak
	Hour	Hour	Hour
Pi'ilani Highway and Ohukai Road	10	11	12
Pi'ilani Highway and Kaiwahine Street	14	11	18
Pi'ilani Highway and North Kihei Road/Mokulele Highway	10	9	36
North Kihei Road and South Kihei Road	18	10	17
Pi'ilani Highway and Pi'ikea Avenue	6	8	9
Pi'ilani Highway and Kaonoulu Street	9	9	11
South Kihei Road and Kaonoulu Street	21	14	29
Pi'ilani Highway and Kulanihakoi Street	9	9	9
Kenolio Road and Kaonoulu Street	4	5	2
Alulike Street and Kaonoulu Street	4	6	8

C. Existing Intersection Level of Service

1. LOS Methodology

Level of service (LOS) is an operational analysis rating system used in traffic engineering to measure the effectiveness of vehicular roadway operating conditions. There are six LOS ranging from A to F. LOS A is defined as being the least interrupted flow conditions with little or no delays, whereas LOS F is defined as conditions where extreme delays exist. Guidelines from *A Policy on*

Geometric Design of Highways and Streets (AASHTO, 2011) states that appropriate LOS for an urban arterial or collector is LOS D or better. Therefore, study intersections will be studied for adherence to this operating level.

a) Two-Way Stop Controlled Intersection LOS

The *Highway Capacity Manual* (TRB, 2010) (referred to hereafter as *HCM*) states that LOS for a two-way stop controlled (TWSC) intersection is determined by the measured control delay (see Table 7). It is defined for each minor movement, not for the intersection as a whole. Vehicles traveling along the major, free-flow road of a TWSC intersection proceed through with minimal delay. Those vehicles approaching the intersection along the minor movement are controlled by a stop sign and thus experience delay attributable to the volume of vehicles passing along the free-flow road and the gaps available.

LOS by v/c Ratio **Average Control** Delay (s/veh) <=1.0 >1.0 ≤ 10.0 F Α В >10 and <15F F >15 and <25 \mathbf{C} F >25 and <35 D >35 and <50 Е F F F >50

Table 7: LOS Criteria for Unsignalized Intersections

Source: *HCM* (TRB, 2010)

b) Signalized Intersection LOS

The LOS analysis for signalized intersections is based on the average total vehicle delay based on the methodologies of the *HCM* (TRB, 2010) shown in Table 8. High numbers of vehicles passing the intersection, long cycle lengths, inappropriate signal phasing, or a poor signal progression can result in long delays, and consequently poor LOS.

LOS by v/c Ratio **Average Control** Delay (s/veh) <=1.0 >1.0 < 10.0 A F F В >10 and ≤ 20 \mathbf{C} >20 and <35 F >35 and <55 D F Е >55 and \leq 80 F F >80 F

Table 8: LOS Criteria for Signalized Intersections

Source: HCM (TRB, 2010)

Another measure of intersection operation is the volume to capacity (v/c) ratio. This is the ratio of the volume of traffic utilizing the intersection compared to the maximum volume of vehicles that can be accommodated by the intersection during a specific period of time. A v/c ratio under 0.85 means the intersection is operating under capacity and excessive delays are not experienced. An intersection is operating near its capacity when v/c ratios range from 0.85 to 0.95. Unstable flows are expected when the v/c ratio is between 0.95 and 1.0. Any v/c ratio greater than or equal to 1.0 indicates that the intersection is operating at or above capacity which results in a LOS F per the *HCM* (TRB, 2010). A traffic movement can have a poor LOS but low v/c which suggests that the traffic volumes along that movement are low but have to wait a long time to make the movement. This is common for low volume protected turn movements or side streets that have to wait through a long cycle length for their split to come up.

2. Existing Intersection LOS Conditions

Existing (2016) unsignalized and signalized intersection LOS, v/c ratio and delay were determined for the weekday AM and PM and weekend (Saturday) mid-day peak hours (see Table 9). All signalized intersection LOS resulted in LOS D or better; however, individual traffic movements for the signalized and unsignalized intersections resulted in LOS E or F conditions with some having v/c greater than 1.0. The worst conditions were seen for the minor movements at the unsignalized intersections of Pi'ilani Highway at Pi'ikea Avenue, Pi'ilani Highway at Kaonoulu Street, and Pi'ilani Highway at Kulanihakoi Street which resulted in LOS F conditions and high v/c. Detailed analysis reports for these intersections during Existing (2016) conditions are provided in Appendix D.

Table 9: Existing (2016) Intersection Level of Service

Intersection	Traffic Control		AM Peak Hour			PM Peak Hour			Weekend Peak Hour		
	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS
	Sign	alized	47.3	-	D	26.0	-	C	24.2	-	C
		L	64.3	0.74	Е	77.7	0.71	E	52.6	0.65	D
	EB	T	51.4	0.42	D	62.9	0.32	E	31.3	0.20	C
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Pi'ilani		L	82.4	0.92	F	87.9	0.86	F	43.0	0.68	D
Highway	WB	T	40.0	0.10	D	52.6	0.18	D	28.9	0.12	C
and Ohukai		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Road		L	57.4	0.25	E	68.4	0.44	E	36.5	0.29	D
Roau	NB	T	31.3	0.71	С	29.9	0.79	C	24.9	0.78	C
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
		L	73.0	0.84	E	78.1	0.85	E	32.8	0.37	C
	SB	T	47.5	0.79	D	1.7	0.72	A	18.4	0.67	В
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*

Table 9 (Continued): Existing (2016) Intersection Level of Service

Intersection	Traffic Control		AM Peak Hour			PM Peak Hour			Weekend Peak Hour		
	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS
	Signa	alized	6.1	-	A	5.5	-	A	8.3	-	A
Pi'ilani	EB	LT	52.7	0.43	D *	69.9	0.41	E *	28.4	0.25	C *
Highway		R LT	0.0 56.1	0.00	E	0.0 71.6	0.00	E	0.0 29.0	0.00	C
and Uwapo	WB	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Road/		L	58.9	0.48	E	71.1	0.64	E	30.3	0.45	С
Kaiwahine	NB	T	0.5	0.50	A	6.1	0.57	A	6.3	0.54	A
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Street		L	59.3	0.46	E	71.9	0.73	E	30.6	0.42	C
	SB	T	0.7	0.56	Α	5.1	0.57	A	6.3	0.51	A
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	Signa	alized	19.3	-	В	22.4	-	C	15.7	-	В
	EB	LT	56.6	0.64	E	69.0	0.67	E	37.8	0.58	D
Di/II		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Pi'ilani	WB	L	58.2	0.12	E	70.0	0.30	E	40.6	0.06	D
Highway		TR	62.0	0.35	E	90.9	0.69	F	41.3	0.02	D
and North	NB	L 	47.7 0.4	0.86	D A	60.3 0.5	0.87	E A	37.1 7.1	0.71	D A
Kihei Road	ND	R	0.4	0.42	*	0.0	0.49	*	0.0	0.43	*
		L	98.2	0.53	F	93.5	0.56	F	67.4	0.53	Е
	SB	T	17.3	0.54	В	20.3	0.65	C	13.1	0.52	В
	- 22	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	Signa	alized	26.0	-	С	31.2	-	С	12.2	-	В
South Kihei	ED	T	8.9	0.29	Α	12.3	0.35	В	11.6	0.51	В
Road and	EB	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
North Kihei	WB	L	56.1	0.78	E	60.0	0.90	E	18.7	0.69	В
Road	WD	T	0.1	0.18	A	0.1	0.16	A	3.7	0.16	A
Rodu	NB	L	51.1	0.77	D	61.1	0.61	E	14.6	0.41	В
	110	R	53.6	0.79	D	76.9	0.86	E	20.0	0.64	В
	Signa	alized	20.4		C	23.0		C	13.3	_	В
Pi'ilani	EB	L	72.0	0.89	E	80.4	0.91	F	30.2	0.81	С
Highway	LD	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
and Pi'ikea	NB	L	73.1	0.85	E	83.5	0.90	F	38.2	0.81	D
Avenue	1,1	T	5.0	0.40	A	7.5	0.58	A	4.8	0.45	A
	SB	T	17.7	0.74	В	20.2	0.65	C	13.1	0.62	В
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*

Table 9 (Continued): Existing (2016) Intersection Level of Service

Intersection		affic ntrol	AM Peak Hour			PM Peak Hour			Weekend Peak Hour		
	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS
Pi'ilani	Unsig	nalized	-	-	-	-	-	-	-	-	-
Highway and	NB	L	17.7	0.14	С	18.6	0.24	C	12.6	0.14	В
Kaonoulu	EB	L	500+	1.35	F	500+	1.61	F	201.5	0.67	F
Street	LD	R	53.1	0.79	F	25.1	0.38	D	16.3	0.24	C
South Kihei	Unsig	nalized	-	-	-	-	-	-	-	-	-
Road and	SB	L	8.6	0.01	A	9.1	0.03	A	8.9	0.03	A
Kaonoulu	WB	L	20.4	0.22	С	32.2	0.27	D	30.7	0.32	D
Street	WB	R	11.8	0.04	В	12.7	0.05	В	12.3	0.03	В
Pi'ilani	Unsig	nalized	-	-	-	-	-	-	-	-	-
Highway and	NB	L	19.7	0.15	C	17.2	0.16	C	12.3	0.08	В
Kulanihakoi	EB	L	500+	4.21	F	500+	2.51	F	304.4	1.05	F
Street	LD	R	37.6	0.57	E	24.3	0.36	C	15.5	0.18	C
	Unsig	nalized	-	-	-	-	-	-	-	-	-
T7 10	NB	L	9.5	0.01	Α	0.0	0.00	A	10.2	0.01	В
Kenolio Road and	ND	TR	8.8	0.03	A	9.3	0.02	A	9.3	0.02	A
Kaonoulu	EB	L	7.4	0.02	A	7.7	0.03	A	7.5	0.03	A
Street	WB	L	7.3	0.01	A	7.3	0.01	A	7.4	0.01	A
	SB	L	10.9	0.22	В	11.6	0.13	В	11.1	0.14	В
	SD	TR	8.8	0.01	A	9.2	0.02	A	9.1	0.02	A
177	Unsign	nalized	-	-	-	-	-	-	-	-	-
Kaonoulu Street and	NB	LTR	9.6	0.02	A	10.7	0.01	В	10.0	0.02	В
Alulike	EB	L	7.3	0.02	A	7.4	0.05	A	7.4	0.02	A
Street	WB	L	7.3	0.01	A	7.4	0.01	A	7.4	0.01	A
	SB	LTR	8.7	0.05	A	9.0	0.04	A	9.0	0.06	A

^{*} Right turn channelization; Appr = Approach; Mvmt = Movement; v/c = volume to capacity ratio;

NB = Northbound; EB = Eastbound; WB = Westbound; SB = Southbound;

L = Left turn movement; R = Right turn movement; T = Through movement

D. Mitigation Measures for Existing Conditions

At the intersections of Pi'ilani Highway at Kaonoulu Street and Pi'ilani Highway at Kulanihakoi Street, the westbound left turn movements resulted in LOS F during all peak hours with the v/c ratio greater than 1.0 which suggests that capacity is exceeded. Mitigating measures were considered to address existing intersection conditions. Potential mitigation considered included the need for signalizing the intersections.

1. Signal Warrant Methodology

The *Manual on Uniform Traffic Control Devices (MUTCD)* (FHWA, 2009) states that prior to signalization of an intersection, an engineering study of traffic conditions, pedestrian characteristics, and physical characteristics of the location shall be performed to determine whether installation of a traffic signal is justified. It is noted that the satisfaction of a traffic signal warrant shall not in itself require the installation of a traffic control signal.

The Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) (FHWA, 2009) lists nine warrants for consideration of providing a traffic signal at an intersection:

- Warrant 1: Eight-Hour Vehicular Volume a combination of major and minor street minimum vehicular volumes reached for each of any eight hours of an average day;
- Warrant 2: Four-Hour Vehicular Volume a combination of major and minor street minimum vehicular volumes reached for each of any four hours of an average day;
- Warrant 3: Peak Hour where traffic conditions are such that for a minimum of one hour of an average day, the minor-street traffic suffers undue delay when entering or crossing the major street;
- Warrant 4: Pedestrian Volume where traffic volume on a major street is so heavy that pedestrians experience excessive delay in crossing the major street;
- Warrant 5: School Crossing where the fact that schoolchildren cross the major street is the principal reason to consider installing a traffic control signal;
- Warrant 6: Coordinated Signal System where progressive movement in a coordinated signal system necessitates installing traffic control signals at intersections where they would not otherwise be needed in order to maintain proper platooning of vehicles;
- Warrant 7: Crash Experience for application where the severity and frequency of crashes are the principal reasons to consider installing a traffic control signal;
- Warrant 8: Roadway Network to encourage concentration and organization of traffic flow on a roadway network;
- Warrant 9: Intersection Near a Grade Crossing where none of the conditions described in the other eight traffic signal warrants are met but the proximity to the intersection of a grade crossing on an intersection approach controlled by a STOP or YIELD sign is the principal reason to consider installing a traffic control signal.

2. Existing Intersection Signal Warrant Analysis

With the traffic volumes collected, Warrant 1: Eight–Hour, Warrant 2: Four-Hour and Warrant 3: Peak Hour were run for the intersection of both intersection, utilizing the existing lane configurations. Both intersections were analyzed for the configuration with two lanes along the major roadway approach and two lanes along the minor roadway approach.

- For the intersection of Pi'ilani Highway and Kaonoulu Street, Warrant 1: Eight-Hour and Warrant 3: Peak Hour traffic signal warrants passed for existing conditions.
- For the intersection of Pi'ilani Highway and Kulanihakoi Street, Warrant 3: Peak Hour passed for existing conditions.

These results suggest that current intersection conditions may benefit from signalization. Traffic signal warrant analysis reports are shown in Appendix D.

III. FUTURE WITHOUT PROJECT CONDITIONS

Plans are to construct Pi'ilani Promenade in phases with approximately half of the project being completed by 2025 with full construction expected by 2032. Therefore, the Future conditions were evaluated for the years 2025 and 2032.

A. Future Roadway Construction

Planned roadway construction in the area includes the North-South Collector Road, between Kaonoulu Street and Waipuilani Road, as well as the mauka roadway, between Ohukai Road and Lipoa Street. These roads will add additional capacity and should help alleviate the vehicle demand on Pi'ilani Highway. However, without additional information on timing, these projects were not included in the future analysis.

B. Future Surrounding Area Development

Known developments in the surrounding area that were considered likely to be constructed by 2025 and 2032 are shown in Figure 7. The description of each development is explained in the following sections.

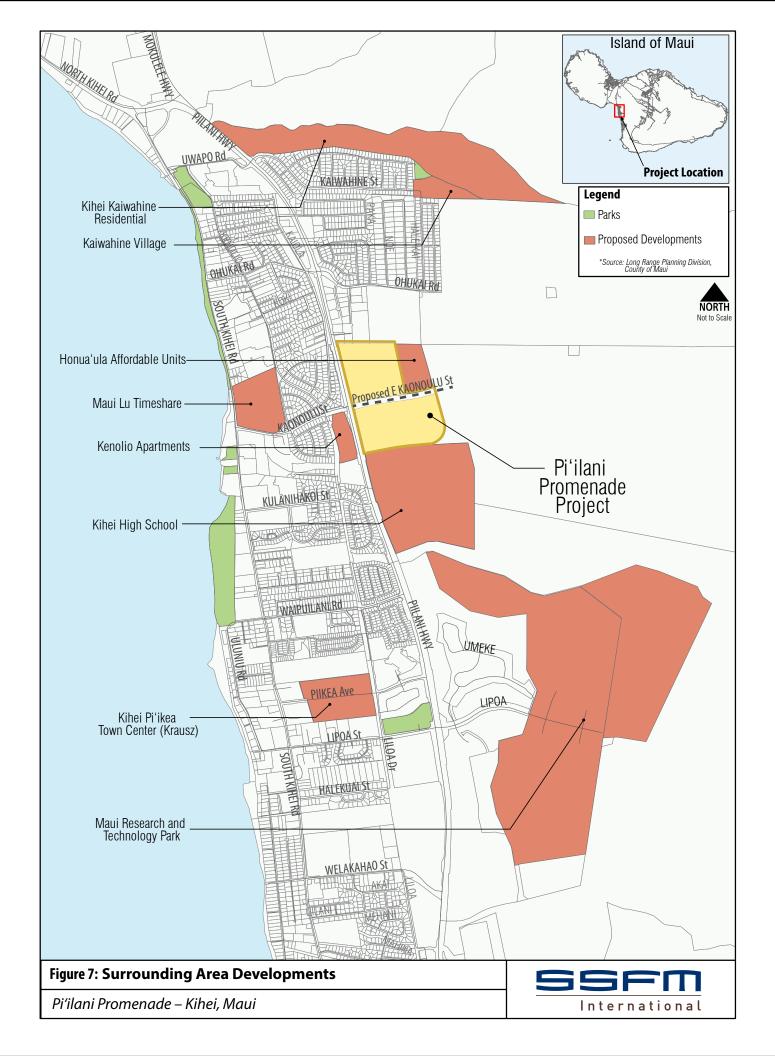
1. Kaiwahine Village

The proposed Kaiwahine Village is located at the east end of Kaiwahine Street. This affordable housing residential development will consist of 120 multi-family units. The traffic assignments for the subdivision were obtained from the *Traffic Impact Analysis Report for Kaiwahine Village* (PRA, 2010). This project is anticipated to be completed by 2025.

2. Maui Lu Resort

Maui Lu Resort currently exists in the northeast quadrant of the intersection of South Kihei Road at Kaonoulu Street. Plans are for the existing resort to be demolished and a 400-unit timeshare constructed in its place. It is also proposed that each timeshare unit will have one lock off unit which may be used as a separate hotel room. As part of the Maui Lu project, the intersection of South Kihei Road at Kaonoulu Street will be signalized. Construction has started on the redevelopment of this resort with a proposed opening in 2017. The proposed signalization had not been completed at the time of this report. The traffic assignments for the project were obtained from *TIAR for Maui Lu Resort* (PRA, 2004).

The intersection of South Kihei Road at Kaonoulu Street will be signalized and the southbound approach has been modified to provide a separate left turn lane. These improvements are recommended as part of the Maui Lu Resort Redevelopment project.



3. Kihei High School

The proposed Kihei High School will be located along the east side of Pi'ilani Highway, south of the proposed Pi'ilani Promenade development. According to the *Traffic Impact Report for Kihei High* School (WOC, 2012), the school will have a capacity of approximately 1,650 students serving grades 9 through 12. The development of the school will be in two phases with 800 students in Phase 1 and 850 students in Phase 2. Both phases are expected to be completed by 2025.

Access and egress will be via the intersection of Pi'ilani Highway at Kulanihakoi Street, which will be modified with an extension of Kulanihakoi Street across Pi'ilani Highway. The intersection of Pi'ilani Highway at Kulanihakoi Street will be signalized to accommodate the trips generated proposed high school.

The number of trips that the high school will generate during weekday peak hours was obtained from the *Traffic Impact Report for Kihei High School* (WOC, 2012) for the project. Based on the trip generation data, the number of trips generated on a Saturday will be negligible.

The intersection of Pi'ilani Highway at Kulanihakoi Street will be signalized. The northbound approach will be modified to provide a dedicated right turn lane, the southbound approach will be modified to provide a left turn lane and the eastbound and westbound approached will be modified to provide a shared through/left turn lane and a dedicated right turn lane. These improvements are those recommended in the TIAR to accommodate the traffic from the proposed Kihei High School.

4. Kenolio Apartments

The Kenolio Apartments is located between Pi'ilani Highway and Kenolio Road in the southwest quadrant of the intersection of Kaonoulu Street at Pi'ilani Highway. The project is a 186 unit multifamily affordable housing development. It is anticipated that the project will be completed in 2017. Access to and egress from will be via two driveways along the east side of Kenolio Road. The traffic assignments for the project were obtained from the *TIAR for Kenolio Apartments*, *An Affordable Housing Project* (PRA, 2014).

5. Kihei Residential

The proposed Kihei Residential development is located on the east side of Pi'ilani Highway, north of Kaiwahine Street. The project includes 400 single-family units, 200 multi-family units, 3,000 square feet of commercial area, 7,000 square feet of offices, and a 10 acre park. Groundbreaking occurred in mid-January 2016. It is anticipated that 25% of the project will be completed by 2025 and full build out will be by 2032. Access to and egress from will be via a driveway along Kaiwahine Street and a driveway along Pi'ilani Highway. The traffic assignments for the project were obtained from the *TIAR Kihei Residential Project* (ATA, 2007).

It was recommended to modify the southbound approach on Pi'ilani Highway to provide an additional left-turn lane. It was also recommended that the westbound approach on Kaiwahine Street have an additional left-turn lane and the eastbound approach on Uwapo Road has a left turn lane, a through lane and a right turn lane. These modifications were included in the future analyses.

Pi'ilani Promenade TIAR SSFM International

6. Krausz Companies Commercial Mixed-Use Development (Downtown Kihei)

The proposed Krausz Companies commercial mixed-use development (referred as Downtown Kihei) is located along Pi'ikea Avenue between Liloa Drive and South Kihei Road. The project includes 249,450 square feet of retail space, approximately 18,500 square feet of office space, and a 150-room hotel. The traffic assignment for the project were obtained from the *TIAR Krausz Companies Commercial Mixed-Use Development (Downtown Kihei)* (ATA, 2012). Proposed completion is expected by 2025.

It was recommended to install an additional left-turn lane on the eastbound approach of Pi'ikea Avenue at the intersection of Pi'ilani Highway. It was also recommended to monitor the northbound left-turn movement along Pi'ilani Highway at this intersection in case an additional left-turn lane is needed. However, the status of the construction of the additional turn lane is unknown at this time and will not be included in the future analyses.

7. Honua'ula Affordable Housing

The proposed Honua'ula Affordable Housing is located north of Pi'ilani Promenade. This development will include 125 units of affordable apartments and 125 owner-occupied units, meeting the requirements of the County Work Force Housing Ordinance. Access to this development will be through East Kaonoulu Street. If construction of the Honua'ula Affordable Housing commences prior to the construction of East Kaonoulu Street extension, temporary construction access to this development will be through a driveway off of Ohukai Road. Once the East Kaonoulu Street extension is open, the temporary access will be closed and all trips generated by this trip will use East Kaonoulu Street. This development is anticipated to be completed by 2025.

8. Maui Research and Technology Park

The Maui Research and Technology Park (MRTP) is located south of Kihei High School on the mauka side of Pi'ilani Highway. Primary access to MRTP will be through the intersection of Pi'ilani Highway and Lipoa Parkway. According to the *Traffic Impact Analysis for Maui Research and Technology Park* (PB, 2013), the proposed development will be implemented in two phases. Phase 1 will consists of 723,200 square feet (sf) of employment, 100,000 sf of retail, 750 residential dwelling units, 150 hotel rooms and 102,000 sf of an elementary school. Phase 2 will consist of over one-million sf of employment, and 500 residential dwelling units. Phase 1 of the MRTP is projected to be completed by 2024. Phase 2 is projected to be completed by 2034. Traffic associated with the MRTP would be accounted for in the background growth as the primary access to the MRTP is located outside the study area (south of the intersection of Pi'ilani Highway and Pi'ikea Avenue).

9. Other Developments

There were several additional developments identified within Kihei, Wailea and Mākena. However, upon research, the status of these developments was in flux. It was therefore assumed that the increase in traffic associated with these developments would be accounted for in the

background growth. Appendix E includes a County of Maui map showing all known developments within the area.

C. Future Geometric Configuration

Changes in roadway configuration are expected as described above and are anticipated to be completed by 2025. In addition to the changes in roadway configuration due to surrounding area developments, the intersection of Pi'ilani Highway and Kaonoulu Street passed signal warrants and therefore was analyzed as a signalized intersection. Lane configuration for Future Without Project are shown in Figure 8.

D. Future Traffic Volumes

Future traffic volumes were projected by applying an ambient background growth in addition to trip volumes related to specific development. Ambient background growth is associated with regional growth not attributed to a specific project. This growth also considers traffic associated with minor, or small, projects for which no traffic data, or traffic study, are available. The second component is estimated traffic that will be generated by other major development projects in the vicinity of the proposed project. Included in the assessment of future background conditions are roadway improvements that are part of the related projects.

1. Background Growth

According to the *Maui Long Range Land Transportation Plan* model (CH2M Hill/HDOT, 2013), traffic volumes along Pi'ilani Highway are projected to increase an average of 1.25% per year from 2007 to 2020 and 1.24% per year from 2020 to 2035. The annual compounded growth rate along South Kihei Road was 3.60% from 2007 to 2020 and 2.05% from 2020 to 2035. These growth rates were used to calculate the projected background growth from 2016 to 2025 and from 2025 to 2032.

The respective growth factors were applied to the northbound and southbound through traffic movements along Pi'ilani Highway and South Kihei Road at the study intersections. Intersection turning movement traffic volumes are considered a reflection of individual project trips and not regional growth, and therefore no ambient growth rate was applied.

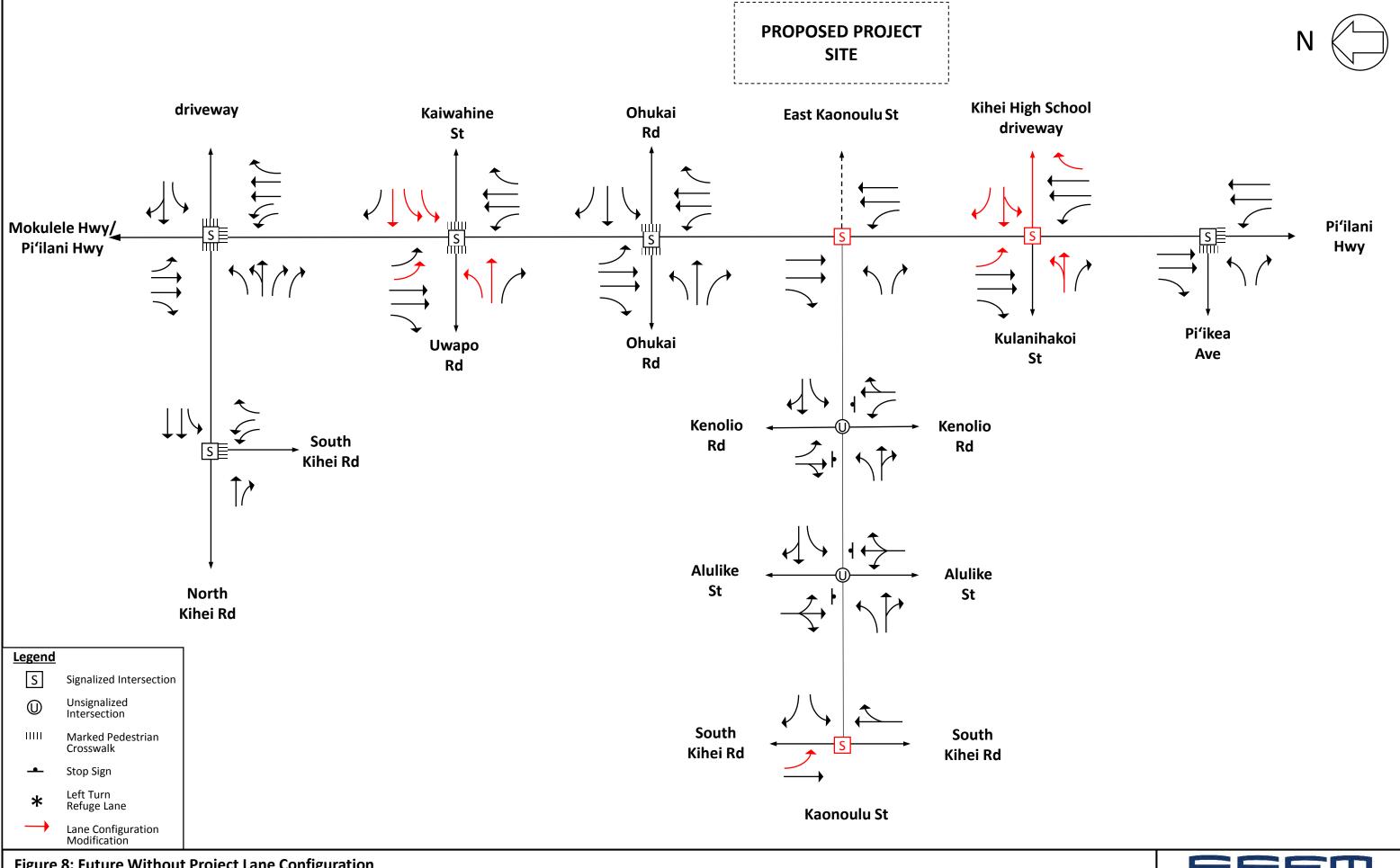


Figure 8: Future Without Project Lane Configuration



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2. Other Project Related Volumes

The addition of trips resulting from the surrounding area projects are shown in Table 10. This data was taken from the respective traffic impact analysis reports or calculated.

Saturday Peak AM Peak Hour PM Peak Hour Hour **Project Name Total** Out **Total** In Out **Total** In Out In Kaiwahine Village Maui Lu Resort Kihei High School Phase 1 Kihei High School Phase 2 Kenolio Apartments Kihei Residential Krauz Development Honua'ula Affordable Housing

Table 10: Other Project Related Trips

Note is made about Honua'ula Affordable Housing Project because of its proximity to Pi'ilani Promenade. These are two separate projects under two different ownerships. However, the two projects will undergo entitlement reviews and if approved construction, in fairly close proximity, so explanation is offered. While it is possible that the Honua'ula Affordable Housing Project would proceed without Pi'ilani Promenade if the latter fails to gain entitlements, this is not considered a likely scenario.

This TIAR treats Honua'ula Affordable Housing Project in the following way:

- Trip generation rates were calculated using trip generation equations for Apartment (125 units) and Residential Condominium/Townhouse (125 units) from the *Trip Generation*, 8th Edition (ITE, 2008). The results in Table 10 show that during the AM peak hour, 103 outbound trips are generated and 24 inbound for a total of 127 trips. The PM peak hour has slightly more traffic generated, 104 in and 54 out movements for a total of 158 trips. Saturday peak hour has 78 in movements and 71 out for a total of 149 trips.
- Access for the Honua'ula Affordable Housing project is through a new mauka leg East Kaonoulu Street and assigned to that roadway. This roadway extension will be completed as part of Pi'ilani Promenade. The traffic analysis for **With Project** includes both projects using East Kaonoulu Street. See Figures 14 to 16 for project related trips

- associated with Pi'ilani Promenade and see Figure 17 for project related trips associated with Honua'ula Affordable Housing Project.
- In order to isolate the effects of Pi'ilani Promenade, Honua'ula Affordable Housing Project is treated as part of background traffic in the **Without Project**. Because East Kaonoulu Street is not assumed to be completed under this condition, traffic associated with Honua'ula Affordable Housing Project is assigned to use a possible temporary driveway access off of Ohukai Road. Ohukai Road temporary access is subsequently closed when East Kaonoulu Street is constructed and opened. See Figures 18 to 20.

3. Future Without Project Volumes

Future Without Project volumes for the AM, PM and Saturday Peak Hour Volumes are shown in Figures 9 through 11 respectively.

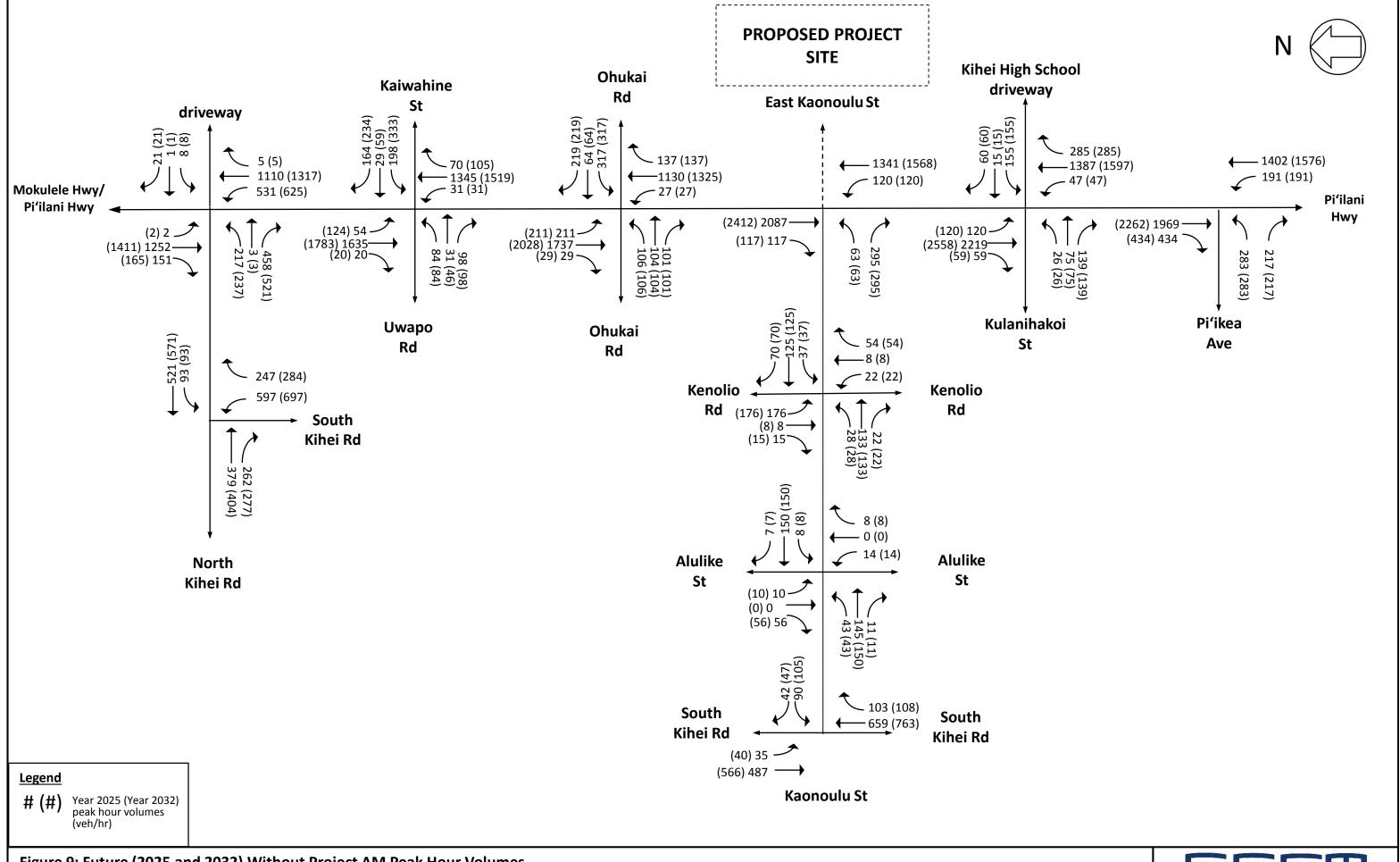


Figure 9: Future (2025 and 2032) Without Project AM Peak Hour Volumes

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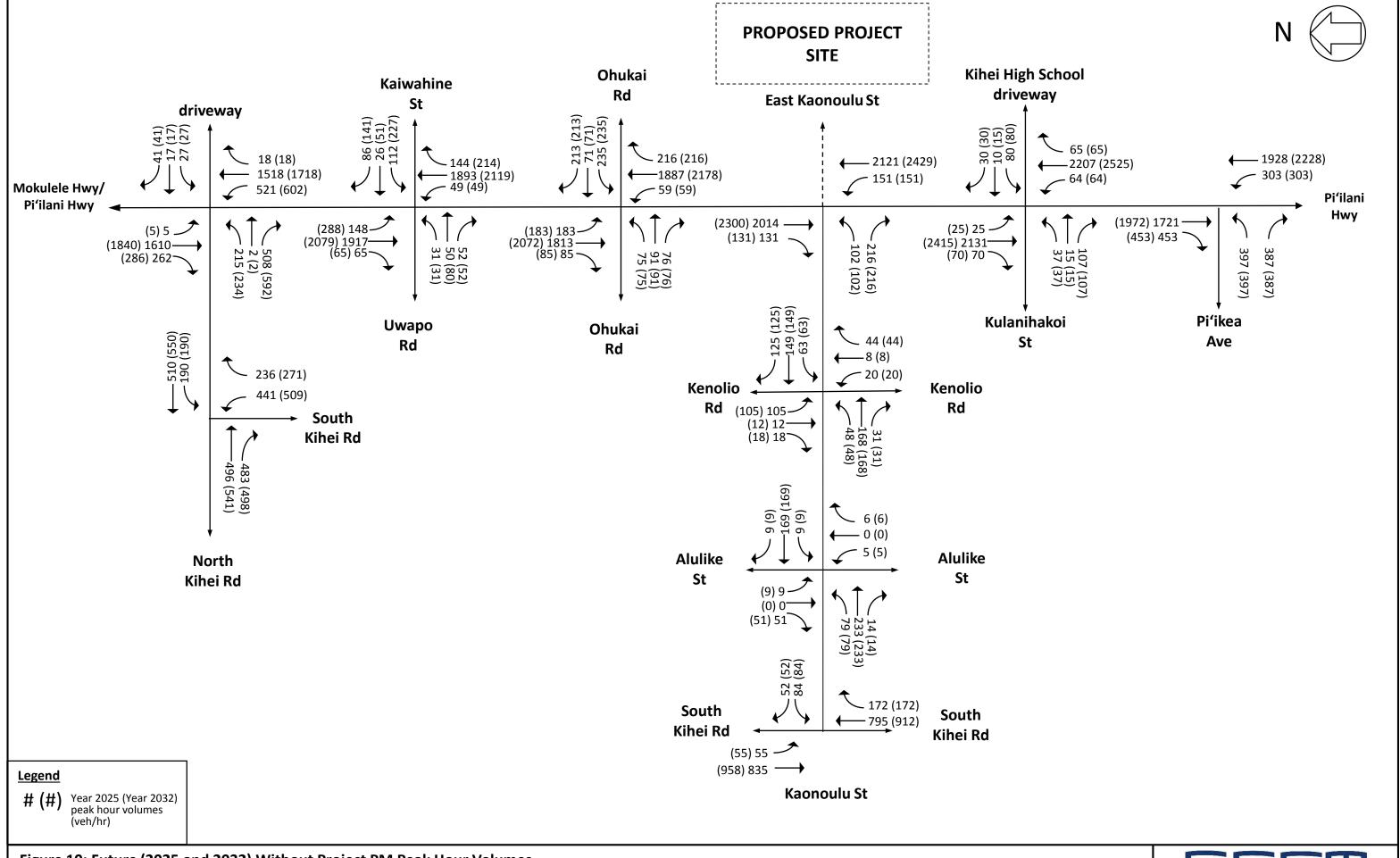


Figure 10: Future (2025 and 2032) Without Project PM Peak Hour Volumes

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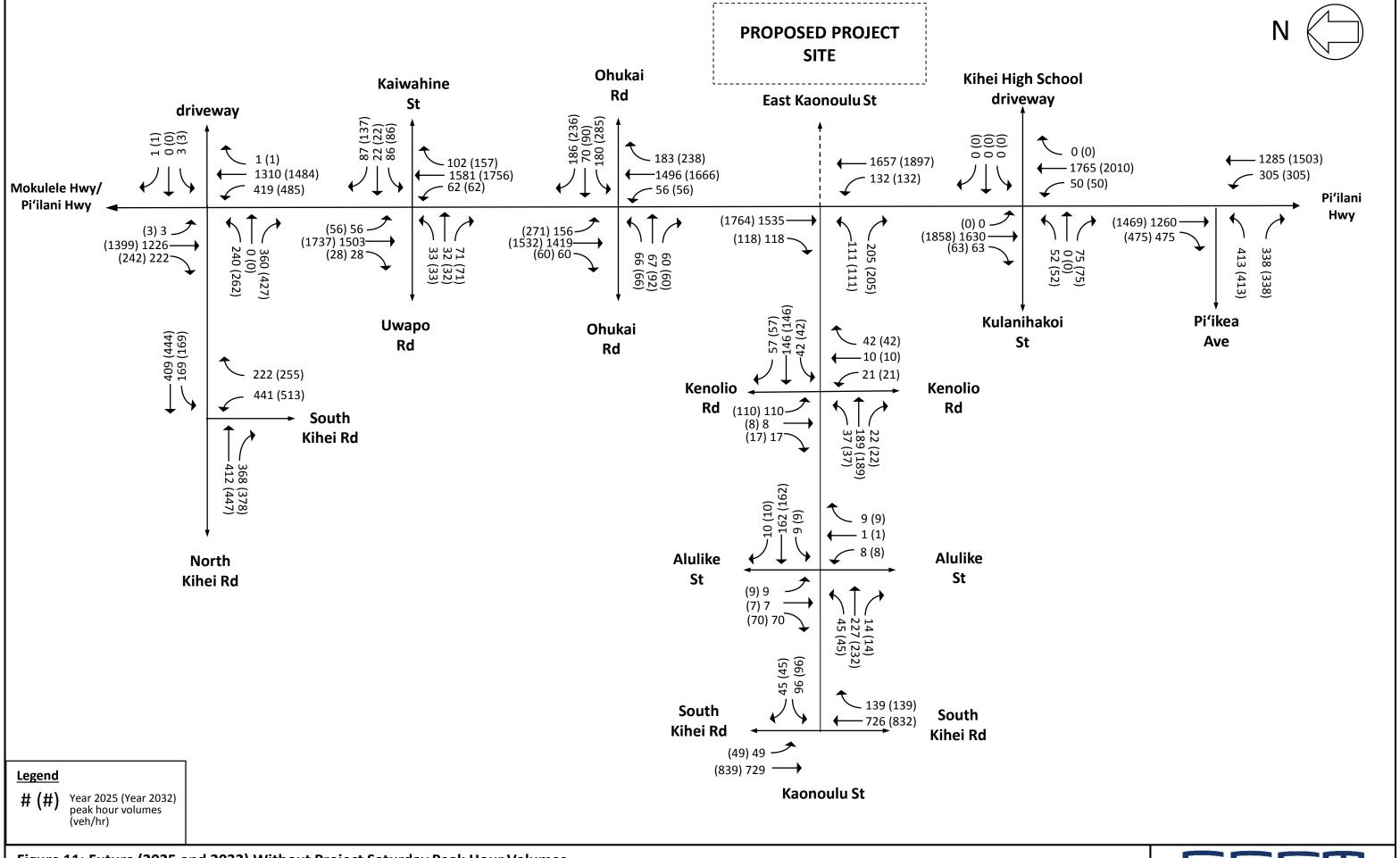


Figure 11: Future (2025 and 2032) Without Project Saturday Peak Hour Volumes

E. Future Without Project Intersection Level of Service

1. Future (2025) Without Project LOS

Future (2025) Without Project intersection LOS, v/c ratio and delay were determined for the AM, PM and Saturday peak hours (see Table 11). For Future (2025) Without Project conditions, all signalized intersection LOS maintained LOS D or better results. Individual turning movement LOS and v/c remained poor for some signalized intersections. All unsignalized intersections resulted in LOS C or better. Detailed analysis reports for these intersections are provided in Appendix F.

Table 11: Future (2025) Without Project Intersection Level of Service

_	Con	Mvmt llized L	Delay 48.9	Peak H v/c	LOS	PM Delay	Peak F	LOS	Weeken	d Peak	Hour
A	ppr Signa	Mvmt llized L	48.9		LOS	Delay	v/c	106			
		L		_				LUS	Delay	v/c	LOS
	ЕΒ			ı –	D	48.4	-	D	33.2	-	C
	EΒ	-	75.4	0.77	E	89.7	0.73	F	68.8	0.68	E
	ni WB	T	63.2	0.54	E	76.0	0.54	E	53.5	0.30	D
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Pi'ilani v	WR.	L	141.6	1.10	F	133.8	1.01	F	74.3	0.83	E
Highway and	V D	T	48.4	0.18	D	61.3	0.23	E	45.1	0.20	D
Ohulesi Daad		L	66.5	0.30	E	80.4	0.56	F	59.2	0.44	E
Oliukai Koau	NΒ	Т	33.8	0.72	C	45.5	0.95	D	29.7	0.83	С
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
		L	75.1	0.87	E	123.4	1.01	F	72.3	0.81	E
	$^{\mathrm{SB}}$	T	35.9	0.93	D	28.1	0.85	С	23.0	0.73	C
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	Signa	ılized	34.7	-	C	20.4	-	C	14.2	-	В
		L	150.4	0.98	F	44.4	0.48	D	72.0	0.60	E
	EB	Т	67.1	0.40	E	39.9	0.41	D	64.9	0.40	E
Pi'ilani		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Highway and V	VB	L	193.1	1.19	F	40.8	0.55	D	63.6	0.55	E
Uwapo Road/	۷D	T	66.6	0.37	E	35.2	0.16	D	59.6	0.20	E
Kaiwahine		L	40.8	0.08	D	37.3	0.40	D	56.9	0.41	E
	ΝB	T	7.5	0.54	A	17.9	0.88	В	8.4	0.61	Α
Street		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
		L	63.7	0.42	E	40.4	0.61	D	61.6	0.40	E
	$^{\mathrm{SB}}$	T	29.6	0.88	C	18.5	0.89	В	11.0	0.61	В
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	Signa	ılized	23.9	-	C	32.3	-	C	19.4	-	В
	EΒ	LT	35.9	0.59	D	45.5	0.61	D	47.0	0.63	D
	DD	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Pi'ilani v	VB	L	36.1	0.09	D	46.3	0.23	D	51.8	0.07	D
Highway and	v D	TR	38.5	0.26	D	52.2	0.54	D	52.3	0.03	D
North Kihei		L	42.8	0.88	D	55.6	0.89	E	47.4	0.80	D
	NB	Т	9.1	0.54	A	11.4	0.68	В	7.6	0.54	A
Road		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	SB	L	74.6	0.52	E	68.3	0.54	E	79.0	0.53	E
		Т	26.4	0.86	C	41.7	0.98	D	16.9	0.64	В
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*

Table 11 (Continued): Future (2025) Without Project Intersection Level of Service

T4		affic ntrol	AM	Peak H	lour	PM	Peak H	our	Weeken	d Peak	Hour
Intersection	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS
	Sign	alized	18.3	-	В	18.0	-	В	15.2	-	В
South Kihei	ED	T	11.7	0.44	В	14.3	0.65	В	13.0	0.58	В
Road and	EB	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
North Kihei	WB	L	28.6	0.63	С	29.2	0.76	C	22.2	0.72	С
Road	WD	T	4.8	0.24	Α	4.1	0.23	A	4.1	0.20	Α
Roau	NB	L	26.3	0.79	C	20.6	0.64	C	17.9	0.61	В
		R	33.8	0.79	С	41.9	0.86	D	29.1	0.79	С
	Sign	Signalized 36		-	D	41.1	-	D	35.0	-	D
Pi'ilani	EB	L	75.2	0.95	E	84.8	1.02	F	74.1	0.93	E
Highway and		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Pi'ikea	NB	L	112.3	1.03	F	99.2	1.03	F	80.4	0.92	F
Avenue	-	T	6.5	0.57	A	12.5	0.80	В	11.8	0.54	В
Tivenue	SB	T	45.4	1.02	F	52.8	1.03	F	34.9	0.77	C *
	a.	R	0.0	0.00		0.0	0.00		0.0	0.00	
Pi'ilani		alized	11.3	-	В	17.9	-	В	12.6	-	В
	EB	L	55.3	0.76	E	94.3	0.84	F	74.7	0.82	E
Highway and	NB	L	92.5	0.91	F	65.9	0.52	E	55.2	0.49	E
Kaonoulu		T	1.9	0.46	A	4.6	0.71	A	3.2	0.56	A
Street	SB	T R	11.4	0.84	B *	24.6	0.86	C *	14.5	0.66	B *
	a.	l .	0.0	0.00		0.0	0.00		0.0	0.00	
	Sign	alized	9.3	0.65	A	9.2	0.61	A	10.2	- 0.62	В
South Kihei	WB	L	31.4	0.65	C	27.6	0.61	C	24.5	0.63	C C
Road and		R T	24.7 0.0	0.34	C *	25.4 0.0	0.42	C *	0.0	0.33	*
Kaonoulu	NB	R	8.3	0.67	A	10.4	0.83	В	12.6	0.85	В
Street		L	42.6	0.68	D	38.3	0.83	D	33.6	0.70	С
	SB	T	2.7	0.36	A	3.0	0.74	A	3.2	0.70	A
	Sign	alized	24.7	-	C	24.6	-	C	6.0	-	A
	EB	LT	45.2	0.33	D	75.7	0.32	E	64.6	0.45	E
Pi'ilani	טם	R	0.0	0.00	*	13.1	0.32	ند	0.0	0.43	*
		LT	52.9	0.68	D	81.1	0.62	F	59.7	0.05	E
Highway and	WB	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Kulanihakoi	NB	L	118.0	0.83	F	98.0	0.80	F	79.4	0.77	E
Street		T	14.0	0.64	В	32.1	0.93	C	2.9	0.60	A
	SB	L	67.4	0.83	E	59.5	0.09	E	0.0	0.00	*
		Т	23.9	0.94	С	10.3	0.76	В	5.1	0.59	A
	Unsig	nalized	-	-	-	-	-	-	-	-	_
Kenolio Road	ND	L	13.0	0.05	В	17.6	0.07	С	15.7	0.07	С
and	NB	TR	9.9	0.08	A	11.0	0.09	В	11.0	0.09	В
Kaonoulu	EB	L	7.7	0.02	A	8.0	0.04	A	7.8	0.03	A
	WB	L	7.6	0.03	A	7.8	0.05	A	7.8	0.04	A
Street	SB	L	19.3	0.43	С	24.9	0.39	C	22.0	0.38	С
	SD	TR	10.5	0.04	В	12.6	0.07	В	11.3	0.05	В

Table 11 (Continued): Future (2025)	Without Project Intersection Level of Service
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	Traffic Control		AM Peak Hour			PM 1	Peak H	our	Weekend	Peak I	Hour
Intersection	Appr	Appr Mvmt D		v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS
	Unsig	Unsignalized		-	-	-	-	-	-	-	-
Kaonoulu	NB	LTR	11.9	0.05	В	12.9	0.03	В	12.6	0.04	В
Street and	EB	L	7.7	0.03	A	7.8	0.06	A	7.7	0.04	A
Alulike Street	WB	L	7.6	0.01	A	7.8	0.01	A	7.8	0.01	A
	SB	LTR	10.1	0.09	В	10.7	0.10	В	10.8	0.13	В

^{*} Right turn channelization; Appr = Approach; Mvmt = Movement; v/c = volume to capacity ratio;

2. Future (2032) Without Project LOS

Future (2032) Without Project intersection LOS, v/c ratio and delay were determined for the AM, PM and Saturday peak hours (see Table 12). For Future (2032) Without Project conditions, all signalized intersection LOS maintained LOS D or better results except for the intersection of Pi'ilani Highway at Ohukai Road which resulted in LOS E during the AM and Weekend peak hours. Individual turning movement LOS and v/c remained poor for some signalized intersections. All unsignalized intersections resulted in LOS C or better. Detailed analysis reports for these intersections are provided in Appendix F.

Table 12: Future (2032) Without Project Intersection Level of Service

	Traffic Control		AM Peak Hour			PM 1	Peak H	lour	Weekend Peak Hour			
Intersection	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS	
	Sign	alized	61.3	-	E	52.7	-	D	60.0	-	E	
	EB	L	79.1	0.77	Е	147.6	0.80	F	71.6	0.69	E	
		T	66.1	0.56	E	142.9	0.81	F	57.7	0.44	E	
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*	
Piʻilani	WB	L	222.3	1.30	F	181.7	1.02	F	135.9	1.08	F	
Highway and	WD	T	53.9	0.21	D	104.2	0.28	F	44.8	0.23	D	
Ohukai Road		L	69.0	0.31	E	155.7	0.77	F	61.9	0.45	E	
Onukai Road	NB	T	32.9	0.78	C	61.7	0.98	E	64.0	1.02	F	
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*	
		L	89.3	0.95	F	170.1	1.03	F	136.5	1.08	F	
	SB	T	50.9	1.03	F	6.2	0.86	A	28.4	0.81	C	
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*	

NB = Northbound; EB = Eastbound; WB = Westbound; SB = Southbound;

L = Left turn movement; R = Right turn movement; T = Through movement

Table 12 (Continued): Future (2032) Without Project Intersection Level of Service

T		affic ntrol	AM	Peak H	lour	PM 1	Peak H	our	Weekend	l Peak l	Hour
Intersection	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS
	Sign	alized	21.4	-	С	19.9	-	В	18.0	-	В
		L	77.2	0.74	E	145.6	0.67	F	36.9	0.46	D
	EB	T	76.5	0.54	E	144.8	0.80	F	31.8	0.24	С
Pi'ilani		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Highway and	WB	L	107.0	0.98	F	143.4	0.86	F	32.8	0.42	C
Uwapo Road/		T	66.9	0.39	E	111.6	0.26	F	29.5	0.13	C
Kaiwahine	ND	L T	36.9	0.09	D	103.1 0.8	0.31	F	33.5	0.57	C B
Street	NB	R	0.9	0.67	A *	0.8	0.86	A *	16.9 0.0	0.86	*
		L	66.6	0.67	E	118.0	0.90	F	31.4	0.00	C
	SB	T	14.0	0.07	В	1.5	0.90	A	16.5	0.27	В
	SD.	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	Sign	alized	26.4	-	С	44.0	-	D	22.5	-	С
		LT	69.5	0.72	Е	130.2	0.81	F	33.6	0.63	С
	EB	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Pi'ilani	WB	L	70.6	0.13	E	151.2	0.61	F	34.9	0.05	С
Highway and	WD	TR	75.5	0.39	E	415.8	1.42	F	35.6	0.02	D
North Kihei		L	52.7	0.92	D	93.1	0.95	F	29.7	0.75	C
Road	NB	T	0.5	0.53	A	0.4	0.62	A	10.3	0.70	В
Noau		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	an	L	111.3	0.53	F	158.2	0.61	F	61.4	0.52	E
	SB	T	30.6	0.79	C *	44.1	0.86	D *	30.7	0.94	C *
	a.	R	0.0	0.00		0.0	0.00		0.0	0.00	-
	Sign	alized	22.6	-	С	32.9	-	С	17.1	-	В
South Kihei	EB	T	14.2	0.46	B *	18.8	0.52	B *	14.3	0.63	* B
Road and		R	0.0	0.00		0.0	0.00		0.0	0.00	
North Kihei	WB	L T	36.8 15.5	0.67	D B	57.9 0.1	0.89	E A	25.1 4.6	0.73	C A
Road		L	28.1	0.27	С	52.3	0.22	D	19.4	0.21	B
	NB	R	30.3	0.75	C	73.4	0.73	E	33.8	0.83	С
	Sign	alized	49.6	-	D	51.7	-	D	34.6	-	C
Pi'ilani		L	121.5	1.05	F	119.0	1.08	F	86.7	1.05	F
	EB	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Highway and	ND	L	140.7	1.06	F	130.2	1.09	F	85.3	1.01	F
Pi'ikea	NB	T	7.2	0.61	A	17.1	0.88	В	8.8	0.65	A
Avenue	SB	Т	62.4	1.06	F	65.1	1.06	F	35.9	0.96	D
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
D:6:1a:		alized	15.2	-	В	25.6	-	C	14.7	-	В
Pi'ilani	EB	L	84.9	0.78	F	155.0	0.89	F	64.7	0.81	E
Highway and	NB	L	138.3	0.97	F	111.4	0.60	F	42.8	0.39	D
Kaonoulu	1,10	T	2.0	0.52	A	6.5	0.79	A	4.0	0.65	A
Street	SB	T	15.8	0.90	В	34.4	0.91	C	21.0	0.82	C
	~.5	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*

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Table 12 (Continued): Future (2032) Without Project Intersection Level of Service

		affic ntrol	AM	Peak H	lour	PM 1	Peak H	lour	Weekend	l Peak l	Hour
Intersection	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS
	Sign	alized	11.2	-	В	10.3	-	В	12.3	-	В
South Kihei	WB	L	30.6	0.67	C	35.0	0.64	С	28.3	0.65	С
Road and	WD	R	26.5	0.34	C	32.2	0.44	C	24.7	0.34	C
Kaonoulu	NB	T	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Street	110	R	11.7	0.78	В	11.5	0.86	В	16.2	0.89	В
Street	SB	L	42.7	0.71	D	53.1	0.80	D	39.6	0.74	D
	~.	T	3.3	0.43	A	3.2	0.65	A	3.8	0.64	A
	Sign	alized	49.4	-	D	33.0	-	С	6.6	-	Α
Di/II	EB	L	56.5	0.34	E	119.4	0.35	F	58.6	0.42	E
Pi'ilani		TR	0.0	0.00	*				0.0	0.00	*
Highway and	WB	L	72.6	0.74	E	130.7	0.73	F *	54.3	0.11	D *
Kulanihakoi	NB	TR L	0.0	0.00	*	0.0	0.00	F	0.0	0.00	* E
Street	NB	T	215.1 41.6	1.04 0.91	F D	161.7 40.0	0.84	D	74.0 3.5	0.77	A
Street	SB	L	47.3	0.91	D	106.7	0.96	F	0.0	0.00	*
	SB	T	49.5	1.04	F	15.6	0.13	В	6.4	0.69	A
	Unsig	nalized	-	-	-	-	-	-	-	-	-
** " " " " "		L	13.0	0.05	В	17.6	0.07	С	15.7	0.07	С
Kenolio Road	NB	TR	9.9	0.08	A	11.0	0.09	В	11.0	0.09	В
and Kaonoulu	EB	L	7.7	0.02	Α	8.0	0.04	A	7.8	0.03	Α
Street	WB	L	7.6	0.03	A	7.8	0.52	A	7.8	0.04	A
	SB	L	19.3	0.43	С	24.9	0.39	C	22.0	0.38	С
	SD	TR	10.5	0.04	В	12.6	0.07	В	11.3	0.05	В
Vooroule		nalized	-	-	-	-	-	-	-	-	-
Kaonoulu	NB	LTR	12.0	0.05	В	12.9	0.03	В	12.7	0.04	В
Street and	EB	L	7.7	0.03	Α	7.8	0.06	A	7.7	0.04	Α
Alulike Street	WB	L	7.6	0.01	A	7.8	0.01	A	7.8	0.01	A
	SB	LTR	10.1	0.09	В	10.7	0.10	В	10.8	0.13	В

^{*} Right turn channelization; Appr = Approach; Mvmt = Movement; v/c = volume to capacity ratio;

F. Future Without Project Mitigation Measures

1. Future (2025) Without Project Mitigation

With all signalized intersections maintaining LOS D or better results and unsignalized intersection turning movements resulting in LOS C or better, no mitigation measures are deemed necessary.

2. Future (2032) Without Project Mitigation

a) Pi'ilani Highway and Ohukai Road

The intersection of Pi'ilani Highway and Ohukai Road resulted in poor LOS for Future (2032) Without Project conditions. Possible mitigation measures include signal optimization or the construction of additional turning lanes.

NB = Northbound; EB = Eastbound; WB = Westbound; SB = Southbound;

L = Left turn movement; R = Right turn movement; T = Through movement

IV. FUTURE WITH PROJECT CONDITIONS

A. Future With Project Geometric Configuration

A portion of East Kaonoulu Street is being constructed with the development of Pi'ilani Promenade by 2025. This will add a mauka leg to the intersection of Pi'ilani Highway and Kaonoulu Street. Additional intersection modifications include:

- Southbound approach will have double left turn lanes, two through lanes, and a channelized right turn lane.
- Northbound approach will have a dedicated left turn lane, two through lanes, and a channelized right turn lane.
- Eastbound approach will have a left turn lane, a through lane, and a channelized right turn lane.
- Westbound approach will have dual left turn lanes, a through lane and channelized right turn lane with an acceleration lane.

The lane configuration for Future With Project conditions are shown in Figure 12.

The Pi'ilani Promenade project also includes the construction of a shared-use pedestrian and bike path along the mauka-side of Pi'ilani Highway, adjacent to the proposed development and within the project site, in addition to the bike lanes on Pi'ilani Highway. A pedestrian plan created for the project is included in Appendix G.

B. Future With Project Traffic Volumes

1. Project Related Volumes

The addition of trips resulting from the project was calculated using the four-step trip generation methodology: trip generation, trip distribution, modal choice, route assignment.

a) Trip Generation

(1) Trip Generation Methodology

The proposed mixed-use development is planning to include commercial, light industrial and affordable apartment units. Resulting trip generation for the proposed development was calculated using *Trip Generation*, 8th Edition (ITE, 2008) and related trip generation rates are shown in Table 13.

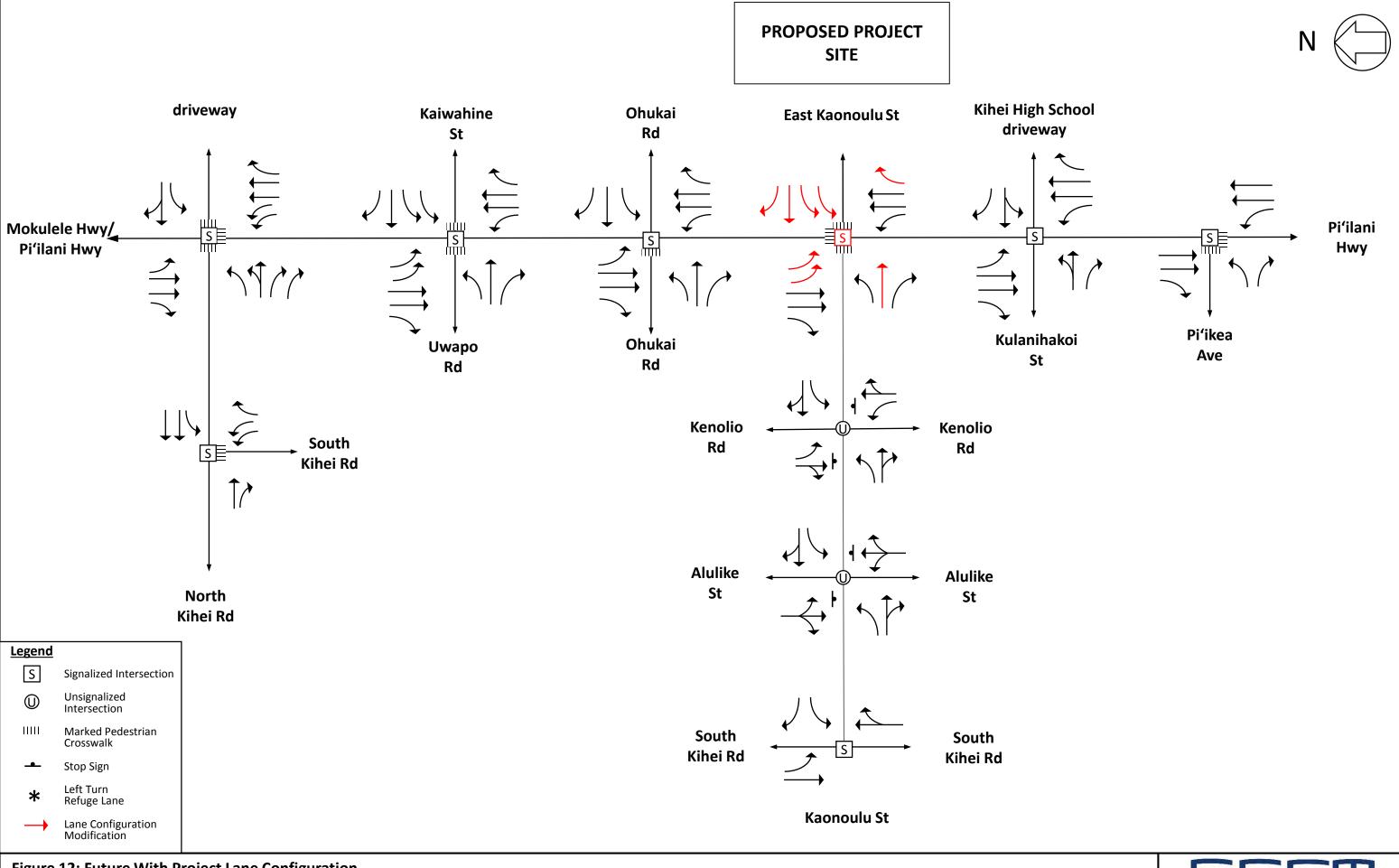


Figure 12: Future With Project Lane Configuration



Table 13: Development Trip Generation Rates

Land Use	Oventity		Trip Generation Eq	uation
[ITE Code]	Quantity	AM Peak Hour	PM Peak Hour	Saturday Peak Hour
Commercial	530,000	Ln (T) =	Ln (T) =	Ln (T) =
[820]	sq. ft.	0.59Ln(X)+2.32	0.67Ln(X)+3.37	0.65Ln(X)+3.76
Light Industrial [110]	5 acres	T=7.51(X)	T=3.68(X)+116.82	T=0.96(X)
Apartment [220]	226 units	T=0.49(X)+3.73	T=0.55(X)+17.65	T=0.41(X)+19.23

Methodologies described in *Trip Generation Handbook*, 2nd Edition (ITE, June 2004) state that although total project trips are calculated for a specified development, the total trips will not necessarily be new vehicles added to the adjacent roadways. The three types of project related trips considered are pass-by trips, diverted trips, and primary trips. The definition of each type of trip is shown in Table 14.

Table 14: Project Related Trip Definitions

Type	Definition
Pass-by	Traffic currently passing the site on an adjacent street or roadway that offers direct
	access to the generator.
Diverted	Trips that are attracted from the traffic volume on roadways within the vicinity of
	the generator but require a diversion from that roadway to another roadway to gain
	access to the site.
Primary	Trips made for the specific purpose of visiting the generator. The stop at the
	generator is the primary reason for the trip.

Source: *Trip Generation Handbook*, 2nd Edition (ITE, June 2004)

(2) Trip Generation Calculation

It is anticipated that by 2025 all the apartments will be fully occupied and 50% of the commercial and industrial areas will be completed. The remaining development will be constructed by 2032. Resulting project related trips for year 2025, 2032, and the total are shown in Table 15.

Table 15: Phased Project Related Trip Generation Volumes

I and Use					Project 1	Related	Trips			
Land Use [ITE Code]	Years	AM	Peak Ho	our	PM	Peak H	lour	Saturo	lay Peal	k Hour
[ITE Code]		In	Out	Total	In	Out	Total	In	Out	Total
Commonaial	2025	126	81	207	540	562	1,102	659	608	1,267
Commercial	2032	125	80	205	540	563	1,103	659	608	1,267
[820]	Total	251	161	412	1,080	1,125	2,205	1,318	1,216	2,534
Light Industrial	2025	16	3	19	16	53	69	1	2	3
Light Industrial	2032	16	3	19	14	52	67	1	1	2
[110]	Total	32	6	38	30	105	135	2	3	5
Aportmont	2025	23	91	114	92	50	142	56	56	112
Apartment [220]	2032	0	0	0	0	0	0	0	0	0
[220]	Total	23	91	114	92	50	142	56	56	112
	2025	165	175	340	648	665	1,313	716	665	1,382
Total Project	2032	141	84	225	554	615	1,170	660	609	1,270
	Total	306	258	564	1,202	1,280	2,482	1,376	1,275	2,651

The percentage of pass-by trips generated by the commercial use was estimated using the data provided in the *Trip Generation Handbook*, 2nd *Edition*. The pass-by trip reduction rates used for the AM, PM and Saturday peak hours is 10%, 24% and 39%, respectively. No pass-by reduction factors were applied to the industrial or apartment trips generated. No diverted trips were accounted for in the analysis. Table 16 provides a breakdown of the primary and pass-by trips generated, including 2025, 2032, and then the total project.

Table 16: Project Related Trip Generation Breakdown

					Project	Related	Trips				
Trip Type	Years	AM	Peak Ho	our	PM	Peak H	lour	Saturday Peak Hour			
		In	Out	Total	In	Out	Total	In	Out	Total	
	2025	152	167	319	518	530	1,047	459	428	888	
Primary	2032	129	76	205	425	480	906	403	372	776	
	Total	281	243	524	943	1,010	1,953	862	800	1,664	
	2025	13	8	21	130	135	265	257	237	494	
Pass-By	2032	12	8	20	129	135	264	257	237	494	
	Total	25	16	41	259	270	259	514	474	988	
	2025	165	175	340	648	665	1,312	716	665	1,382	
Total Trips	2032	141	84	225	554	615	1,170	660	609	1,270	
	Total	306	258	564	1,202	1,280	2,482	1,376	1,275	2,651	

b) Trip Distribution

The project-related trips were distributed along the anticipated approach routes to the project site based on following assumptions:

- 1. The purpose of the project is to provide services for the residents and tourists of South Maui. Thus marketing and advertising will be directed toward this area. Accordingly, it was assumed that 75% of the traffic to and from the project will be generated by Kihei and South Maui.
- 2. 25% of the project generated traffic will approach and depart via Mokulele Highway (10%) and North Kihei Road (15%). Of the 15% from North Kihei Road, 10% will use North Kihei Road to Pi'ilani Highway and then Pi'ilani Highway to the project. The remaining 5% will use South Kihei Road and Kaonoulu Street.
- 3. The traffic generated from within Kihei (75%) was distributed based on the distribution of residential units and hotel rooms (including timeshares and vacation rentals) using the data presented in the *Maui Long-Range Land Transportation Plan* with adjustments to reflect Maui Lu Resort Redevelopment, the Kihei Residential Development, Honua'ula, Mākena Resort and additional Wailea Resort units. Using this distribution, 20% of the trips associated from within Kihei would be generated by the area north of Kaonoulu Street and 80% would be generated by the area south of Kaonoulu Street.

Trip distribution is shown in Figure 13.

c) Modal Choice

Without additional connectivity and access, the resulting number of users likely to travel by foot, bike, or transit is relatively small and thus no factor was applied to the resulting volumes. However, improvements are being made to accommodate pedestrian and bicycle travel adjacent to and within this project. Recognizing that the availability of existing off street pedestrian and bike pathways is limited in south Maui, and that there is a need for projects to offer options to vehicular traffic, a description of the pedestrian and bike pathway system adjacent to and within the project area is included in a figure in Appendix G. The red bike lane shown in the figure is located within the Pi'ilani Highway right of way. The blue system shown provides for a series of pedestrian and bike pathways with the project area and East Kaonoulu Street allowing for safe off street interconnectivity for the public using the various components of the land plan and providing for future connectivity to the areas north, south and east of the project area.

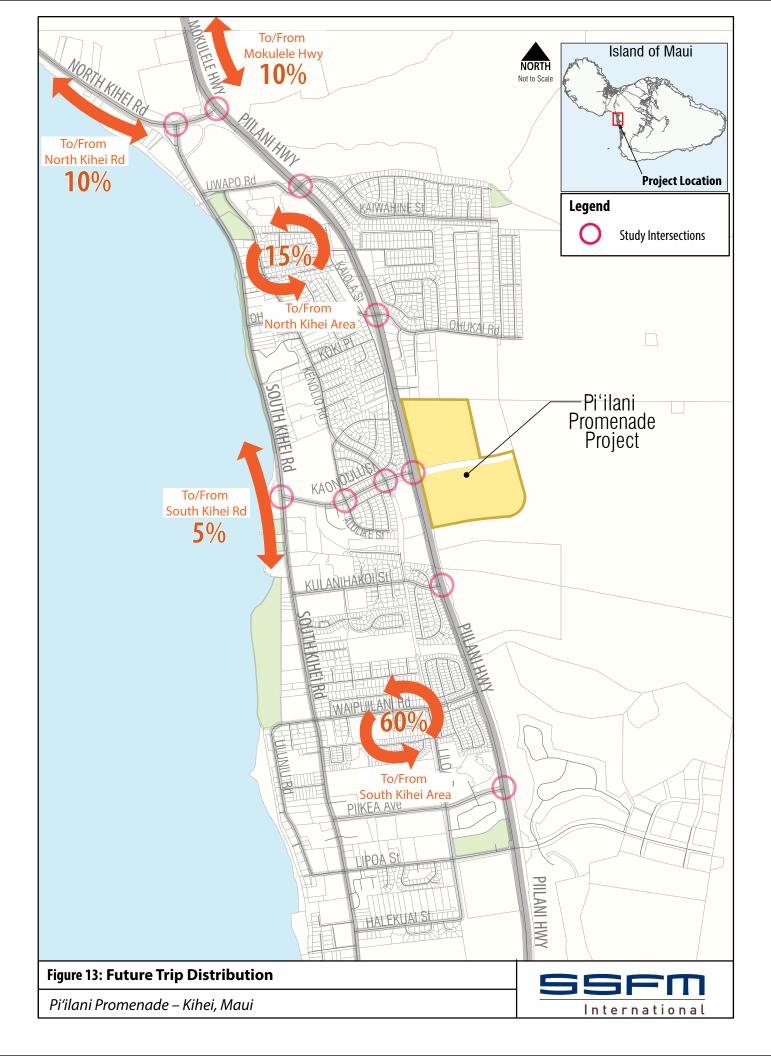
d) Trip Assignment

Total project related vehicular trips for 2025 and 2032 are shown in Figures 14 through 16. Figure 14 shows AM peak hour. Figure 15 shows PM peak hour. Figure 16 shows Saturday peak hour.

Volumes associated with Honua'ula Affordable Housing for the Future With Project analysis were rerouted from the temporary access off Ohukai Road to the new mauka leg of East Kaonoulu Street. It is anticipated that Honua'ula Affordable Housing will be completed by 2025. Figure 17

shows the trips associated with Honua'ula Affordable Housing with access only at East Kaonoulu Street.

Primary project related vehicular volumes were added to the Future Without Project traffic volumes. In addition, pass-by trips for Pi'ilani Promenade and the Honua'ula Affordable Housing project related volumes were rerouted which resulted in the Future (2025 and 2032) With Project traffic volumes shown in Figures 18 through 20 for AM, PM and Saturday peak hours.



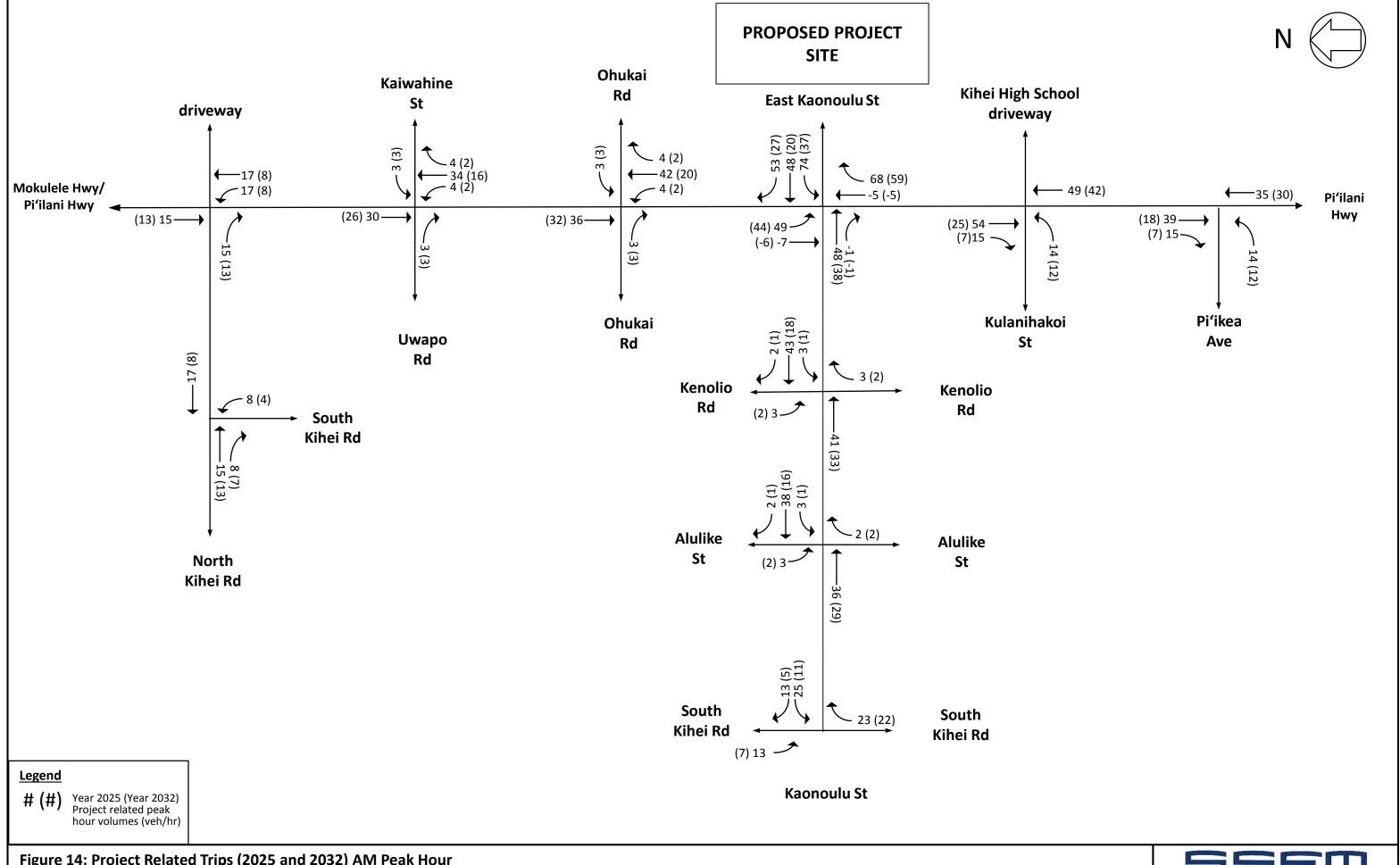
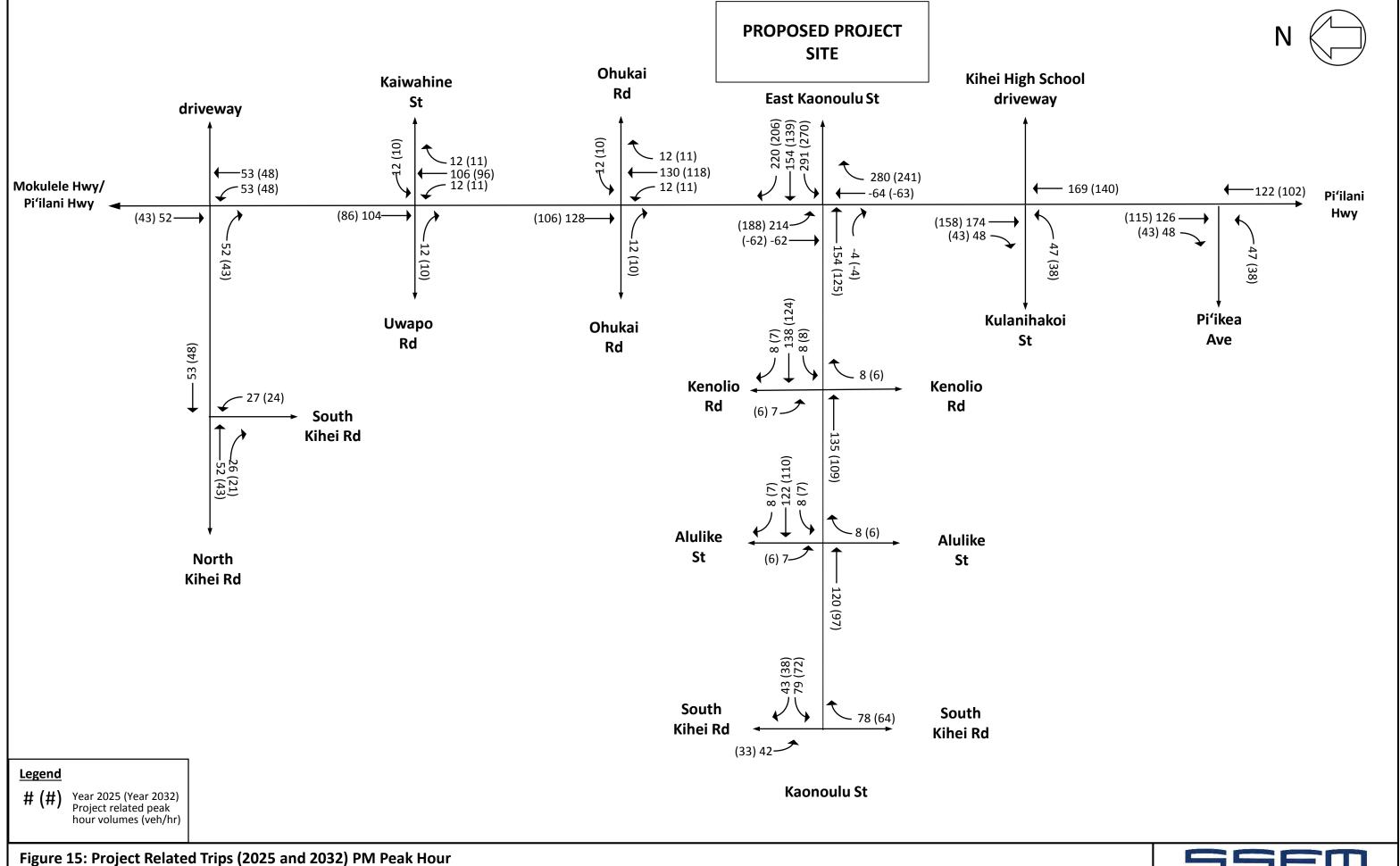
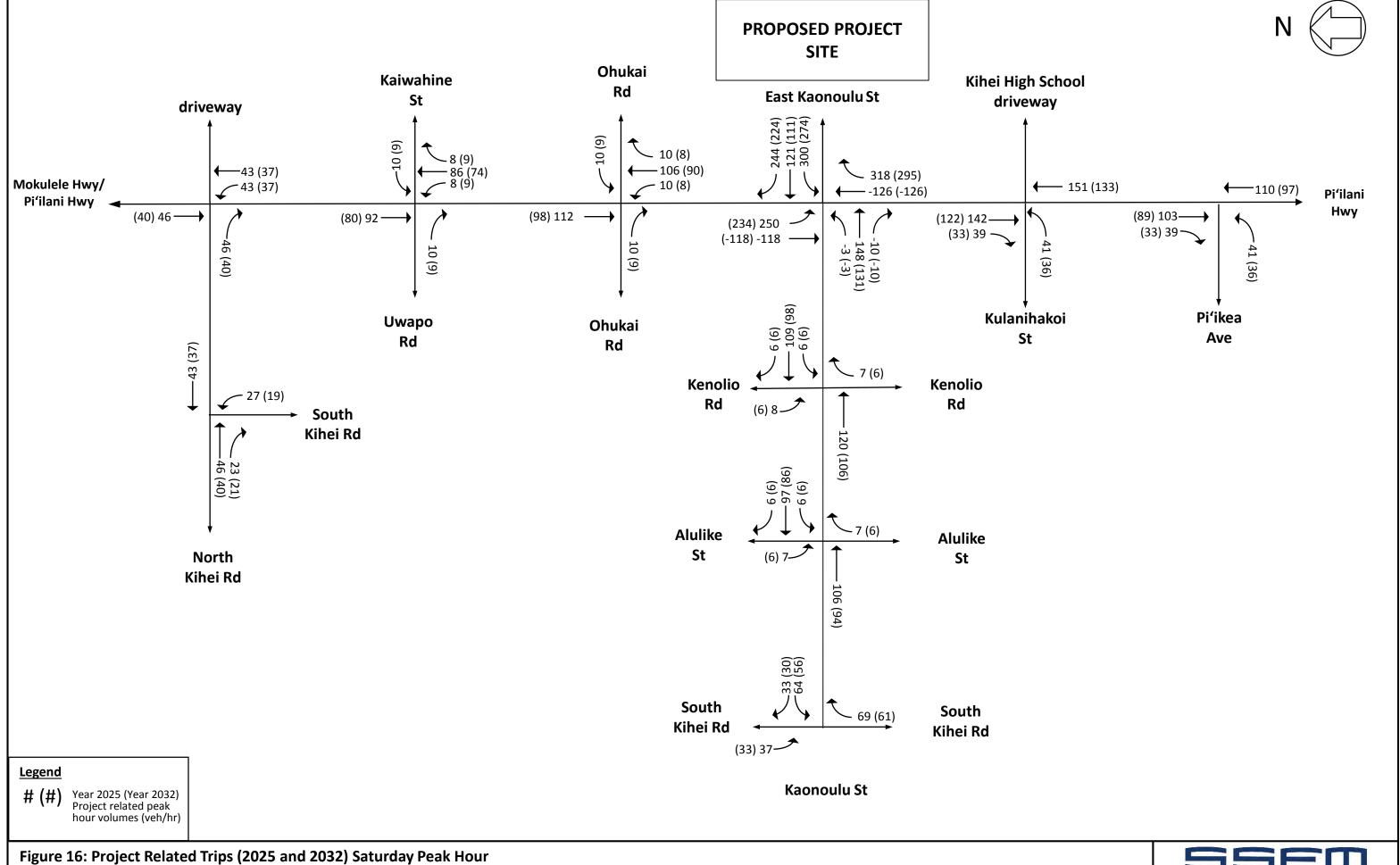


Figure 14: Project Related Trips (2025 and 2032) AM Peak Hour



SSFM International



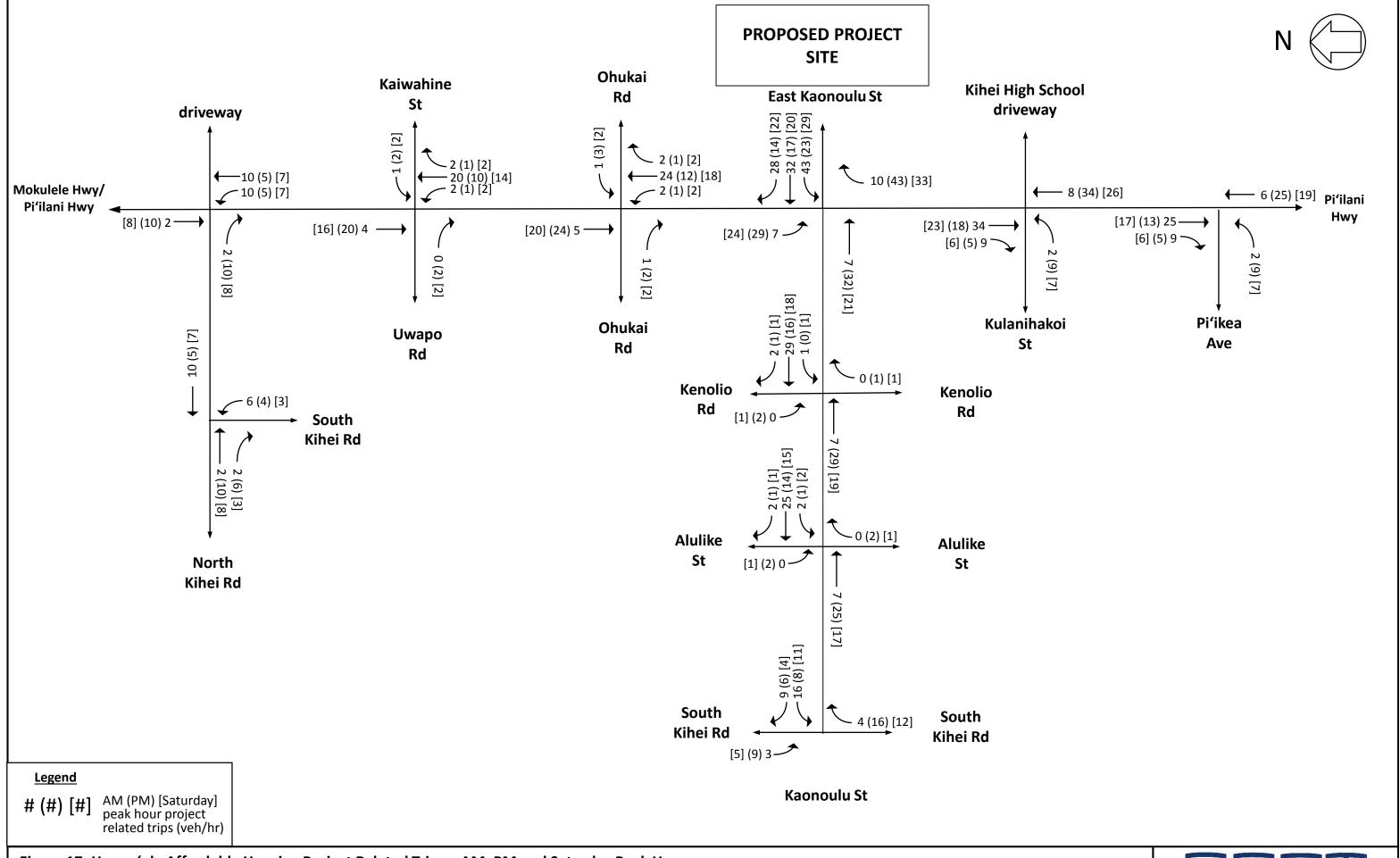


Figure 17: Honua'ula Affordable Housing Project Related Trips – AM, PM and Saturday Peak Hour

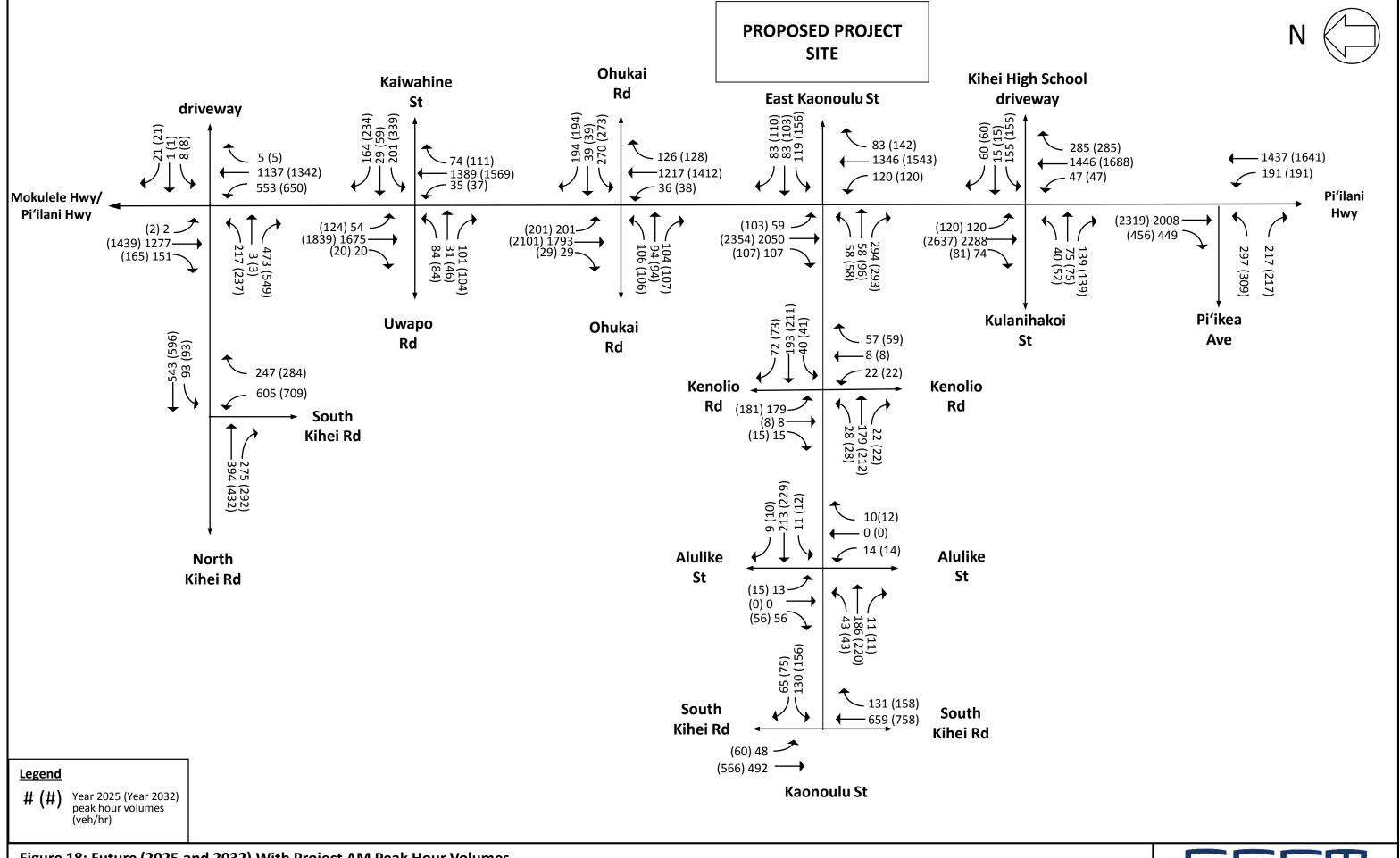


Figure 18: Future (2025 and 2032) With Project AM Peak Hour Volumes

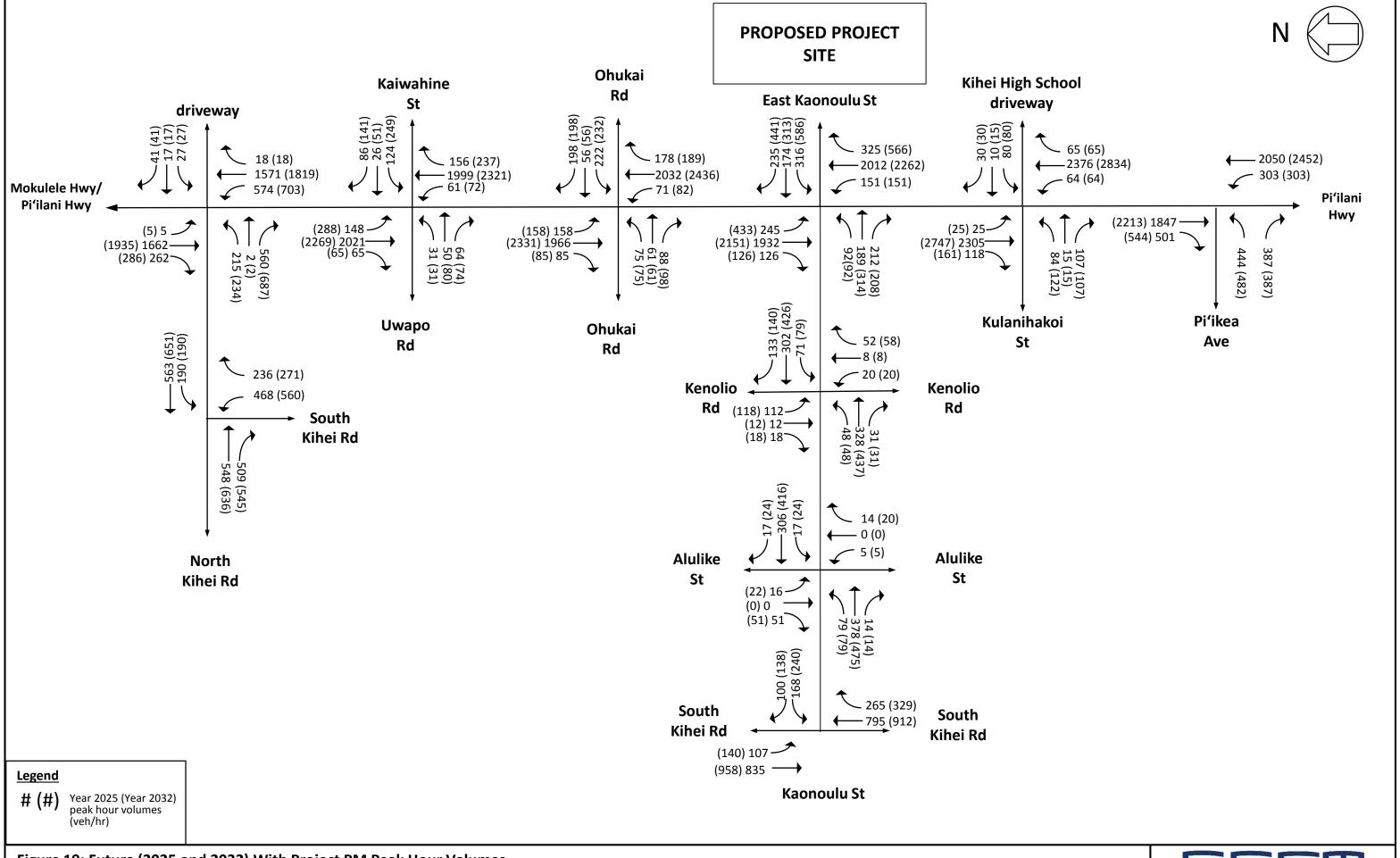


Figure 19: Future (2025 and 2032) With Project PM Peak Hour Volumes

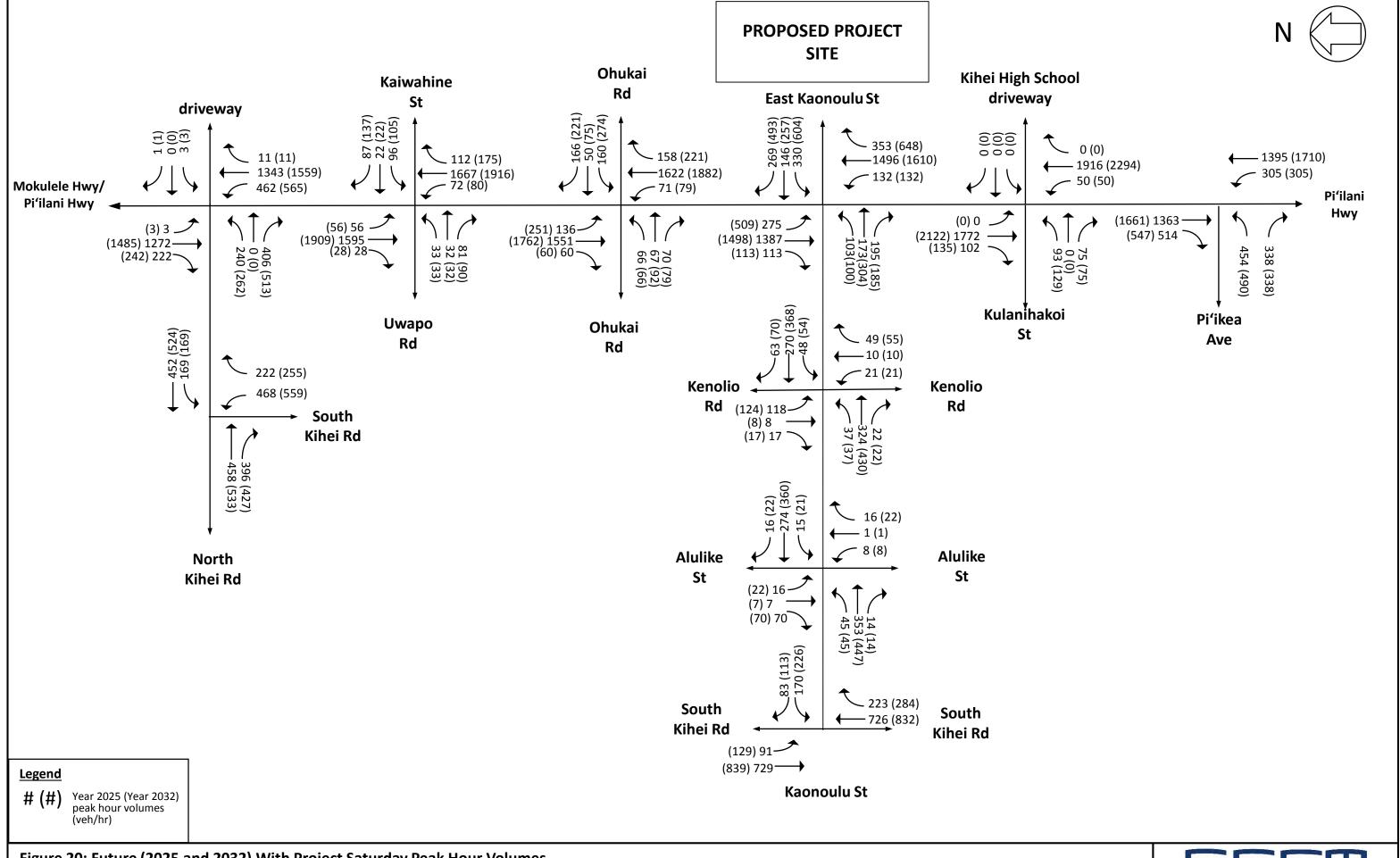


Figure 20: Future (2025 and 2032) With Project Saturday Peak Hour Volumes

C. Future With Project Level of Service

1. Future (2025) With Project LOS

Future (2025) With Project conditions intersection LOS, v/c ratio and delay were determined for the AM, PM and Saturday peak hours (see Table 17). For Future (2025) With Project conditions, all signalized intersection LOS maintained LOS D or better results except the intersection of Pi'ilani Highway at Kaonoulu Street which operated at LOS E during the PM peak hour. Individual turning movement LOS and v/c remained poor for some signalized intersections. Most unsignalized intersections resulted in LOS D or better for individual movements, except for the southbound left turn movement at Kenolio Road and Kaonoulu Street which operated at LOS F for PM and Saturday peak hours. Detailed analysis reports for these intersections are provided in Appendix H.

Table 17: Future (2025) With Project Intersection Level of Service

Intersection		affic ntrol	AM	Peak H	lour	PM 1	Peak H	lour	Weekend Peak Hour			
	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS	
	Sign	alized	45.3	-	D	54.2	-	D	33.0	-	C	
	_	L	75.4	0.77	Е	76.5	0.71	E	69.9	0.68	E	
	EB	T	62.4	0.49	E	60.2	0.31	E	54.7	0.31	D	
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*	
Pi'ilani	WB	L	135.0	1.07	F	182.1	1.17	F	76.7	0.82	E	
Highway and	WD	T	50.1	0.12	D	53.2	0.20	D	46.8	0.16	D	
Ohukai Road		L	66.1	0.35	E	68.0	0.57	E	60.6	0.53	E	
Ollukai Koau	NB	T	32.0	0.74	С	56.1	1.02	F	30.0	0.86	C	
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*	
		L	73.8	0.87	E	100.3	0.95	F	70.8	0.76	E	
	SB	T	34.5	0.94	С	32.7	0.95	C	24.1	0.78	C	
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*	
	Sign	alized	37.7	-	D	33.7	-	C	15.0	-	В	
		L	77.2	0.74	E	61.2	0.57	F	72.2	0.60	E	
	EB	T	76.2	0.44	E	55.8	0.50	E	65.1	0.40	E	
Pi'ilani		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*	
Highway and	WB	L	114.1	0.96	F	79.7	0.82	E	63.7	0.57	E	
Uwapo Road/	WD	T	62.7	0.17	E	49.5	0.21	D	59.3	0.19	E	
Kaiwahine		L	48.3	0.10	D	35.8	0.17	D	57.6	0.47	E	
	NB	Т	12.7	0.61	В	11.0	0.81	В	9.1	0.64	A	
Street		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*	
		L	71.4	0.46	E	60.8	0.82	E	61.8	0.40	E	
	SB	Т	44.9	0.97	D	50.1	1.04	F	12.0	0.65	В	
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*	

Table 17 (Continued): Future (2025) With Project Intersection Level of Service

Intersection		affic ntrol	AM	Peak H	lour	PM :	Peak H	lour	Weekend	l Peak l	Hour
	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS
	Sign	alized	24.0	-	С	32.8	-	С	20.9	-	С
		LT	43.3	0.66	D	53.7	0.65	D	51.3	0.65	D
	EB	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Pi'ilani	WD	L	41.0	0.09	D	55.4	0.27	E	56.2	0.08	E
Highway and	WB	TR	43.7	0.28	D	68.4	0.63	E	56.7	0.03	E
North Kihei		L	44.6	0.88	D	74.3	1.00	E	50.7	0.82	D
	NB	T	8.3	0.52	Α	10.5	0.66	В	7.4	0.54	A
Road		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
		L	79.9	0.52	E	77.5	0.55	E	83.6	0.53	F
	SB	T	25.2	0.82	С	35.2	0.93	D	18.5	0.66	В
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	Sign	alized	18.2	-	В	21.3	-	С	15.9	-	В
South Kihei	EB	T	12.0	0.46	В	15.3	0.64	В	13.5	0.62	В
Road and	LD	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
North Kihei	WB	L	28.6	0.63	С	29.3	0.81	С	24.3	0.73	С
Road		T	4.9	0.25	Α	0.1	0.24	A	4.1	0.21	Α
Noau	NB	L	26.4	0.79	C	27.5	0.75	С	19.6	0.66	В
		R	32.9	0.78	C	66.9	0.95	E	30.9	0.79	С
	Sign	alized	38.6	-	D	51.0	-	D	39.8	-	D
Pi'ilani	EB NB	L	88.3	0.99	F	114.1	1.08	F	77.2	0.95	E
Highway and		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Pi'ikea		L	119.9	1.04	F	130.2	1.09	F	87.4	0.93	F
Avenue		T	6.9	0.58	A	16.5	0.84	В	14.5	0.60	В
Avenue	SB	T	46.2	1.02	F	61.0	1.04	F	42.5	0.87	D
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	Sign	alized	28.5	-	С	70.3	-	E	35.9	-	D
	EB	L	79.1	0.69	E	61.6	0.42	E	87.0	0.53	F
Pi'ilani		Т	78.3	0.68	E	80.3	0.86	F	119.3	0.90	F
Highway and	WB	L	70.1	0.57	E	69.5	0.81	E	103.6	0.88	F
Kaonoulu		T	76.7	0.73	E	75.1	0.82	E	94.0	0.72	F
Street	NB	L	275.9	1.33	F	214.4	1.21	F	41.9	0.6	D
Street		T	8.8	0.54	A	55.6	1.02	F	15.5	0.61	В
	SB	Т	78.2	0.63	E	231.5	1.29	F	58.6	0.77	E
		R	18.2	0.84	В	52.2	1.00	D	14.5	0.57	В
	Sign	alized	12.0	- 0.70	В	21.6	- 0.70	C	20.5	-	C
South Kihei	WB	L	32.2	0.70	C	46.5	0.79	D	36.1	0.77	D
Road and	<u> </u>	R	28.2	0.40	C *	39.4	0.53	D *	30.6	0.42	C
Kaonoulu	NB	Т	0.0	0.00		0.0	0.00		0.0	0.00	*
Street	<u> </u>	R	10.6	0.71	В	21.2	0.88	С	23.7	0.91	С
	SB	L	48.8	0.78	D	98.3	0.91	F	<u>69.7</u>	0.83	E
	SD	T	3.3	0.38	Α	5.3	0.57	Α	5.4	0.56	Α

Table 17 (Continued): Future (2025) With Project Intersection Level of Service

Intersection		affic ntrol	AM	Peak H	lour	PM 1	Peak H	lour	Weekend	l Peak l	Hour
	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS
	Sign	alized	31.3	-	С	30.4	-	C	8.6	-	Α
	EB	L	138.5	1.05	F	39.4	0.48	D	65.0	0.58	E
D:(:1:	ЕВ	TR	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Piʻilani Highway and	WB	L	92.2	0.94	F	34.2	0.32	C	57.5	0.03	E
	WD	TR	37.3	0.26	D	32.5	0.14	C	0.0	0.00	*
Kulanihakoi		L	86.3	0.78	F	81.0	0.79	F	82.2	0.78	F
Street	NB	T	13.8	0.68	В	28.4	0.99	C	4.5	0.67	A
		R	9.4	0.31	A	4.3	0.06	A	0.0	0.00	
	SB	L	55.3	0.81	E	61.5	0.69	E	0.0	0.00	*
	SD	T	32.4	0.99	C	31.0	0.99	C	7.8	0.67	A
	Unsignalized		1	-	-	-	-	-	ı	-	-
	NB	L	15.0	0.06	C	30.0	0.13	D	23.9	0.11	С
Kenolio Road	ND	TR	10.4	0.09	В	13.5	0.14	В	13.2	0.13	В
and Kaonoulu	EB	L	7.9	0.02	A	8.5	0.05	A	8.2	0.04	A
Street	WB	L	7.7	0.03	A	8.3	0.07	A	8.3	0.05	A
	SB	L	26.4	0.54	D	85.6	0.80	F	57.3	0.70	F
	SD	TR	11.4	0.04	В	16.9	0.10	C	13.9	0.07	В
	Unsig	Unsignalized		-	-	-	-	-	-	-	-
Kaonoulu	NB	LTR	13.0	0.06	В	14.9	0.06	В	15.0	0.07	С
Street and	EB	L	7.8	0.04	A	8.2	0.07	A	8.0	0.04	A
Alulike Street	WB	L	7.7	0.01	A	8.3	0.02	A	8.2	0.01	A
	SB	LTR	11.0	0.11	В	14.8	0.17	В	13.9	0.20	В

^{*} Right turn channelization; Appr = Approach; Mvmt = Movement; v/c = volume to capacity ratio;

2. Future (2032) With Project LOS

Future (2032) With Project conditions intersection LOS, v/c ratio and delay were determined for the AM, PM and Saturday peak hours (see Table 18). For Future (2032) With Project conditions, the signalized intersections of Pi'ilani Highway at Ohukai Road, at Pi'ikea Avenue and at Kulanihakoi Street operated at poor LOS E or F. The unsignalized intersection of Kenolio Road and Kaonoulu Street resulted in LOS E and F for the northbound left turn movement and the southbound left turn movement. Detailed analysis reports for these intersections are provided in Appendix H.

NB = Northbound; EB = Eastbound; WB = Westbound; SB = Southbound;

L = Left turn movement; R = Right turn movement; T = Through movement

Table 18: Future (2032) With Project Intersection Level of Service

Intersection		affic ntrol	AM	Peak H	lour	PM 1	Peak H	our	Weekend	l Peak l	Hour
	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS
	Sign	alized	74.0	-	E	105.3	-	F	71.5	-	E
		L	68.6	0.75	Е	76.5	0.71	E	71.6	0.69	E
	EB	T	57.2	0.45	E	60.2	0.31	E	57.7	0.44	E
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Pi'ilani	WB	L	167.9	1.17	F	274.9	1.40	F	161.6	1.15	F
Highway and	WD	T	47.5	0.13	D	55.0	0.21	D	46.1	0.21	D
Ohukai Road		L	61.3	0.13	E	73.2	0.65	E	65.0	0.59	E
Oliukai Koau	NB	T	34.1	0.35	C	122.7	1.20	F	83.7	1.09	F
		R	0.0	0.85	*	0.0	0.00	*	0.0	0.00	*
		L	92.4	0.91	F	87.5	0.95	F	151.5	1.11	F
	SB	T	88.7	1.11	F	75.8	1.10	F	35.5	0.92	D
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	Sign	alized	45.8	-	D	34.5		C	39.3	<u> </u>	D
		L	94.8	0.76	F	82.8	0.61	F	55.2	0.56	E
	EB	T	93.1	0.58	F	76.7	0.66	E	47.8	0.32	D
Pi'ilani		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Highway and Uwapo Road/	WB	L	148.2	1.09	F	165.5	1.12	F	53.3	0.62	D
	WD	T	65.0	0.20	E	63.1	0.27	E	44.5	0.17	D
-		L	64.9	0.14	E	59.7	0.33	E	30.7	0.20	C
Kaiwahine Street	NB	T	25.0	0.76	С	22.5	0.97	С	10.7	0.80	В
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	SB	L	82.8	0.71	F	150.9	1.18	F	46.2	0.33	D
		T	37.7	1.07	F	14.2	1.02	F	67.0	1.08	F
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	Sign	alized	26.0	-	C	45.1	-	С	23.1	-	С
	EB	LT	45.9	0.72	D	69.2	0.72	E	47.4	0.73	D
	LD	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Pi'ilani	WB	L	41.0	0.09	D	71.6	0.34	E	45.7	0.06	D
Highway and	", "	TR	43.7	0.28	D	112.2	0.79	F	46.3	0.02	D
North Kihei		L	50.2	0.99	D	82.8	1.07	F	40.4	0.84	D
Road	NB	T	0.7	0.61	A	0.3	0.73	A	8.8	0.66	A
Noau		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	an	L	79.9	0.52	E	93.5	0.56	F	72.6	0.53	E
	SB	T	35.0	0.94	C	68.1	1.05	F	27.0	0.87	C *
	G:	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	
	Sign	alized	19.0	-	В	23.0	-	C	21.4	<u> </u>	C
South Kihei Road and	EB	T	14.1	0.53	В	21.2	0.78	C	16.8	0.66	В
		R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
North Kihei	WB	L	30.6	0.66	C	35.2	0.83	D	34.7	0.77	C
Road		T	5.8	0.29	A	4.7	0.29	A	4.6	0.24	A
Noau	NB	L	26.5	0.82	C	26.7	0.77	С	26.7	0.77	С
	NB	R	31.4	0.79	C	54.8	0.92	D	45.1	0.87	D

Table 18 (Continued): Future (2032) With Project Intersection Level of Service

Intersection		affic ntrol	AM	Peak H	lour	PM 1	Peak H	our	Weekend	l Peak l	Hour
	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS
	Sign	alized	58.1	-	E	87.9	-	F	51.1	-	D
Piʻilani	ED	L	133.1	1.07	F	150.8	1.16	F	101.2	1.06	F
Highway and	EB	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Pi'ikea	WB	L	153.1	1.07	F	184.4	1.21	F	116.6	1.05	F
	WD	T	8.8	0.64	A	35.7	0.99	D	15.3	0.74	В
Avenue	SB	T	75.2	1.09	F	118.8	1.18	F	16.1	1.03	F
	SD	R	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	Sign	alized	44.7	-	D	204.6	-	F	101.2	-	\mathbf{F}
	EB	L	69.5	0.47	E	54.8	0.31	D	55.0	0.33	E
Pi'ilani	LD	T	77.2	0.77	E	127.6	1.06	F	117.9	1.02	F
Highway and	WB	L	69.2	0.62	E	118.3	1.07	F	129.7	1.10	F
Kaonoulu	עייי	Т	75.4	0.76	E	126.7	1.05	F	81.1	0.86	F
Street	NB	L	275.9	1.33	F	327.9	1.47	F	131.5	0.96	F
Street	TVD	T	14.2	0.66	В	245.2	1.45	F	113.7	1.13	F
	SB	Т	84.9	0.72	F	344.6	1.58	F	176.4	1.21	F
		R	46.1	1.02	F	178.4	1.30	F	49.1	0.93	D
	Sign	alized	16.4	-	В	45.8	-	D	45.3	-	D
South Kihei	WB	L	39.6	0.77	D	116.7	1.02	F	67.1	0.88	E
Road and	WD	R	33.8	0.42	С	56.7	0.66	E	39.9	0.50	D
Kaonoulu	NB	T	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
Street	TVD	R	15.1	0.81	В	52.9	1.03	F	61.5	1.06	F
Street	SB	L	71.5	0.78	E	114.8	0.95	F	115.6	0.98	F
		T	3.9	0.43	A	7.2	0.65	Α	7.7	0.64	A
		alized	59.3	-	E	52.7	-	D	13.7	-	В
	EB	L	361.2	1.58	F	148.1	1.02	F	41.0	0.56	D
Pi'ilani		TR	0.0	0.00	*	0.0	0.00	*	0.0	0.00	*
	WB	L	107.7	0.96	F	58.6	0.41	E	0.0	0.00	*
Highway and		TR	44.9	0.26	D	55.6	0.17	E	0.0	0.00	*
Kulanihakoi	NB	L	118.0	0.83	F	188.3	1.03	F	77.7	0.78	E
Street		T	17.0	0.77	В	50.2	1.06	F	9.6	0.86	Α
		R	9.7	0.30	A	3.8	0.06	A	0.0	0.00	
	SB	L	75.6	0.83	E	107.1	0.80	F	0.0	0.00	*
		Т	72.3	1.11	F	47.9	1.05	F	15.1	0.89	В
	Unsig	nalized	-	-	-	-	-	_	-	-	-
Kenolio Road	NB	L	16.0	0.07	C	50.4	0.22	F	36.0	0.17	E
		TR	10.7	0.10	В	16.4	0.19	C	15.8	0.18	C
and Kaonoulu	EB	L	7.9	0.02	A	9.0	0.06	A	8.5	0.04	A
Street	WB	L	7.8	0.03	A	8.8	0.08	A	8.7	0.06	A
	SB	L	31.7	0.60	D	324.8	1.43	F	198.6	1.16	F
		TR	11.7	0.04	В	22.6	0.14	С	16.9	0.09	C

Pi'ilani Promenade TIAR SSFM International

Intersection	Traffic Control		AM Peak Hour			PM 1	Peak H	our	Weekend Peak Hour			
	Appr	Mvmt	Delay	v/c	LOS	Delay	v/c	LOS	Delay	v/c	LOS	
	Unsig	Unsignalized		-	-	-	-	-	-	-	-	
Kaonoulu	NB	LTR	13.5	0.06	В	17.4	0.09	С	17.5	0.11	С	
Street and	EB	EB L		0.04	A	8.7	0.08	A	8.3	0.04	A	
Alulike Street	WB	WB L		0.01	Α	8.6	0.03	A	8.5	0.02	A	
	SB	LTR	11.5	0.13	В	22.4	0.28	C	18.7	0.30	C	

Table 18 (Continued): Future (2032) With Project Intersection Level of Service

D. Future With Project Mitigation Measures

1. Future (2025) With Project Mitigation

a) Pi'ilani Highway and Kaonoulu Street

The signalized intersection of Pi'ilani Highway and Kaonoulu Street resulted in poor LOS for Future (2025) With Project conditions. Additional roadway capacity, such as the construction of the North-South Collector Road or mauka roadway, is needed to accommodate the vehicle demand at this intersection and improve LOS.

b) Kenolio Road and Kaonoulu Street

The unsignalized intersection of Kenolio Road and Kaonoulu Street resulted in poor LOS for the southbound left turn movement. Possible mitigation includes reconstructing as a single lane roundabout.

2. Future (2032) With Project Mitigation

a) Pi'ilani Highway and Ohukai Road

The signalized intersection of Pi'ilani Highway at Ohukai Road will continue to operate at a poor LOS similar to Future (2032) Without Project conditions. Possible mitigation includes providing additional left turn lanes for the westbound and southbound approaches.

b) Pi'ilani Highway and Pi'ikea Avenue

The signalized intersection of Pi'ilani Highway at Pi'ikea Avenue also resulted in poor LOS. Possible mitigation includes adding an additional eastbound left turn lane.

c) Pi'ilani Highway and Kulanihakoi Street

The signalized intersection of Pi'ilani Highway at Kulanihakoi Street resulted in poor LOS for Future (2032) With Project conditions. Possible mitigation measures include the construction of additional turning lanes for the northbound and southbound approaches.

^{*} Right turn channelization; Appr = Approach; Mvmt = Movement; v/c = volume to capacity ratio;

NB = Northbound; EB = Eastbound; WB = Westbound; SB = Southbound;

L = Left turn movement; R = Right turn movement; T = Through movement

d) Pi'ilani Highway and Kaonoulu Street

The signalized intersection of Pi'ilani Highway at Kaonoulu Street resulted in poor LOS as well. Additional roadway capacity, such as the construction of the North-South Collector Road or mauka roadway, is needed to accommodate the vehicle demand at this intersection and improve LOS.

e) Kenolio Road and Kaonoulu Street

The unsignalized intersection of Kenolio Road and Kaonoulu Street resulted in poor LOS for the northbound and southbound left turn movements. Possible mitigation includes reconstructing as a single lane roundabout.

V. SUMMARY

The developer of Pi'ilani Promenade is proposing to construct 530,000 square feet of commercial area, 5 acres of light industrial uses, and 226 units of one and two-bedroom rental apartments on 68-acres of undeveloped land in Kihei. Primary access will be through the intersection of Pi'ilani Highway and Kaonoulu Street which will be modified to include a traffic signal and fourth leg. The developer anticipates having a full build-out and occupancy by 2032.

Existing (2016) conditions resulted in appropriate LOS conditions for all signalized intersections. Two unsignalized study intersections of Pi'ilani Highway at Kaonoulu Street and Pi'ilani Highway at Kulanihakoi Street resulted in individual turning movements with poor LOS. Signal warrants passed for these two intersections.

Future (2025) Without Project conditions resulted in appropriate intersection operations for signalized intersections and appropriate turning movement operations for unsignalized intersections. Future (2032) Without Project conditions resulted in all signalized intersections maintaining LOS D or better results except for the intersection of Pi'ilani Highway at Ohukai Road. All unsignalized intersection turning movements resulted in LOS C or better.

A portion of East Kaonoulu Street is being constructed with the development of Pi'ilani Promenade by 2025. This will add a mauka leg to the intersection of Pi'ilani Highway and Kaonoulu Street. Honua'ula Affordable Housing is also anticipated to be completed by 2025 and will use access through East Kaonoulu Street. Additional intersection modifications include:

- Southbound approach will have double left turn lanes, two through lanes, and a channelized right turn lane.
- Northbound approach will have a dedicated left turn lane, two through lanes, and a channelized right turn lane.
- Eastbound approach will have a left turn lane, a through lane, and a channelized right turn lane.
- Westbound approach will have dual left turn lanes, a through lane and channelized right turn lane with an acceleration lane.

The project also includes the construction of a shared-use pedestrian and bike path along the mauka-side of Pi'ilani Highway, adjacent to the proposed development and within the project site, in addition to bike lanes on Pi'ilani Highway.

Future (2025) With Project conditions resulted in all signalized intersection LOS maintaining LOS D or better results except the intersection of Pi'ilani Highway at Kaonoulu Street. Most unsignalized intersections resulted in LOS D or better for individual movements, except for the intersection of Kenolio Road at Kaonoulu Street. For Future (2032) With Project conditions, the signalized intersections of Pi'ilani Highway at Ohukai Road, Pi'ikea Avenue, and Kulanihakoi Street operated at poor LOS E or F. The unsignalized intersection of Kenolio Road and Kaonoulu Street also resulted in poor LOS for some turning movements. Future roadway construction in the area will provide additional capacity which should alleviate the vehicle demand on Pi'ilani Highway and improve intersection LOS.

VI. REFERENCES

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Appendix A

HDOT Comment-Response Matrix

Ĺ	_	10/6/14 - HDOT Comment	8/11/15 - PRA Response	2/2/16 - SSFM Proposed Action	2/19/16 - HDOT Response (Nami Wong)
		Drive B South and Drive B North are too close to the Pillani Highway/Kaonoulu Street intersection.	Acknowledged.	Need to define acceptable from State standpoint so can plan appropriate access control.	Leave as is; no need to move.
	2	The forecasted future background traffic volumes should include the Kihei Residential and the Downtown Kihei (Krauz) development or a discussion justifying why these projects were not included.	Acknowledged. An updated list of other known projects that will be included in the background forecasts is attached.	Have identified latest credible projects in area for conideration.	ок.
	3	The 2018 background Level of Service (LOS) analysis includes several transportation improvements at the Pillani Highway/Chukai Road intersection and Pillani Highway/Kaiwahine Street/Uwapo Road intersection that were assumed to be in place. For this assumption to be considered valid, the TIAR must confirm by whom and when these improvements are programmed o committed to be constructed. Otherwise, these improvements cannot be assumed to be in place or Pillani Promenade must commit to providing the improvements.	The improvements referred to at the intersection of Piliani Highway and Ohukai Road have since been constructed. It is our understanding that thes improvements were constructed at the State's expense. The improvements shown as recommended in the Piliani Promenade TIAR will be revised to reflect this improvement.	Pi'ilani Highway/Ohukai intersection improvements were constructed late 2015. Pi'ilani Highway/Uwapo intersection improvements have not been made and programming is not known.	Verify when improvements done or proposed, and by who.
	4	Tables 10 through 14 in the TIAR should include reference to the applicable ITE code for developing the trip generation for each land use. We note that the net new trips generated by the North Parcel's retail land use, as indicated in Table 15, is not consistent for a 100,000 square foot size development.	Land Use codes will be added to the tables. The trip generation analysis for the North Parcel will be corrected. The trip generation calculations will also be revised to reflect minor changes in the development plan.	Will include information as it relates to most recent site plan.	ок.
	5	The application of the pass-by trips appears to be incorrect since access to the development would be more typically classified as diverted link trips being that all trips to Pillani Promenade would be via the Pillani Highway and Kaonuolu Street intersection. However, the Department of Transportation (DOT) may consider allowing trip reductions to be applied in determining the net new trips generated, with justification.	Pass-by trips are defined as trips "attracted frim traffic passing the site on an adjacent street or roadway that offers direct access to the generator. Pass-by trips are nor diverted from another roadway." Pillani Highway is adjacen to the project site and for all practical purposes, the intersection of Pillani Highway at Kaonoulu Street is a driveway to and from the project until the Upcountry Highway is constructed.	Will use definition/rates as previously detailed from PRA.	Expand discussion of pass-by vs. diverted links.
	6	The methodology used to develop the AM peak hour pass-by trips in Table 15 based on Table 11, which indicates that no formula was provided, mus be validated.	Justification will be added to the TIAR.	Will use definition/rates as previously detailed from PRA.	Justify.
	7	Trip distribution (75% Kihei and south Maui, 25% north) is acceptable. However, Indicate how the northern traffic will also impact Pillani Highway, no just Mokulele Highway, State Route 311, and North Kihei Road, State Route 310.	Clarification is needed. Intersections along these roadways were included in the TIAR	Will update report to justify use and show how volumes are distributed.	ок.
	8	For consistency, regional traffic growth factors must be applied to all analyzed movements not justhrough movements.	We have modified the horizon year and expanded the list of other known projects to be included in the background projections. The new list essentially represents build out of South Maui. Recommend that the background growth rate be eliminated as suggested by State of Hawaii Department of Transportation at one of our earlier meetings.	Will follow recommendations noted by PRA.	Do own analysis based on research.
	9	Piilani Promenade shall provide satisfactory pedestrian connections between the project and Kihei High School	A pedestrian circulation plan has been developed since the TIAR was prepared. The plan will be included in the final TIAR.	See reponse from PRA.	Address pedestrian refuge at intersection.
	110	The discussion for acceptable LOS on Piilani Highway, State Route 31, does not reflect current DOT requirements. It implies that LOS E or F on minor approaches is acceptable as a default threshold. Existing LOS conditions worse (lower) than D are generally not acceptable by the DOT, Ir accordance with the DOT guidelines, the Applican shall mitigate all transportation impacts due to the project in order to maintain the satisfactory traffic operating LOS and delay levels at the without the project conditions for the horizon (background) year. In addition, should the background year LOS without the project be lower than the desirable DOT threshold of LOS D, the Applicant may be required to provide mitigation improvements to improve the State facilities to LOS D or better with the project condition.	Acknowledged. However, the last sentence implie that this project may be required to mitigate an unacceptable background (without project) level-o service that is the result of traffic generated by another project.		"which the administration has decided to address on a regional level." Exception taken to underscore (quotation). Project to mitigate own impacts.
,	11	Pillani Promenade shall provide all transportation mitigation improvements recommended in the TIAR that is accepted by the DOT, and at no cost to the State.	Acknowledged.	See reponse from PRA.	ок.

Page 1 of 2 SSFM International, Inc

10/6/14 - HDOT Comment	8/11/15 - PRA Response	2/2/16 - SSFM Proposed Action	2/19/16 - HDOT Response (Nami Wong)
We are concerned about when the Honuaula Affordable Housing project will actually be constructed. The TIAR included Pillani Promenade and Honuaula Affordable Housing in its analysis with 2018 as the common background year, but no information about the plans for the actual buildout of the Affordable Housing project was provided. If the actual development year is different from Pillani Promenade, an updated TIAR will be required to determine what impacts the Affordable Housing project may have at its buildout year and any additional improvements that are required sha be provided by its developer, and at no cost to the State.		The Honuaula Affordable Housing project is a separate development and will be accounted for under "without project" conditions.	OK.

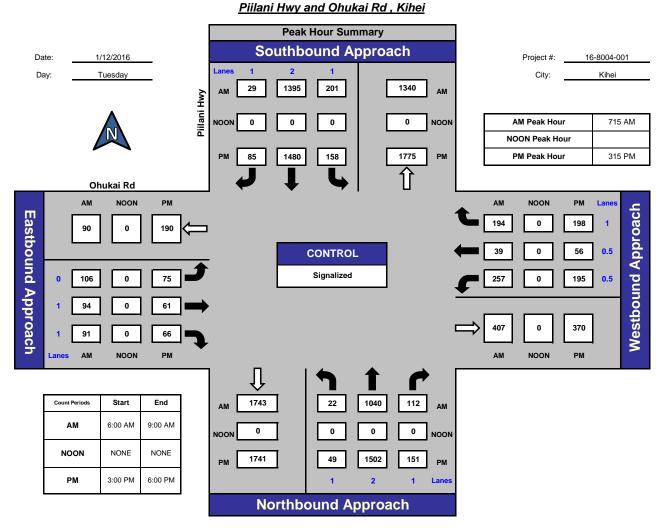
Page 2 of 2 SSFM International, Inc

Appendix B

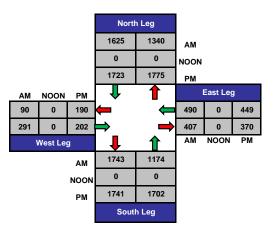
Intersection Peak Period Traffic Counts and 24-Hour Traffic Data

ITM Peak Hour Summary

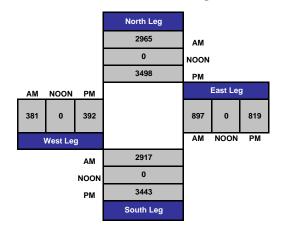








Total Volume Per Leg



Intersection Turning Movement Prepared by: National Data & Surveying Services

UTURNS

EB

WB

SB

NB

Project ID: 16-8004-001 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 AM

						- / 1							
NS/EW Streets:	NS/EW Streets: Piilani Hwy			Piilani Hwy				Ohukai Rd		C			
	N	ORTHBOUN	D	SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0	ET 1	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL
6:00 AM	2	113	7	13	122	4	6	6	4	11	3	24	315
6:15 AM	2	154	13	24	189	1	8	5	8	23	4	30	461
6:30 AM 6:45 AM	1	216 212	6 18	21 22	262 218	4	23 24	5 13	12 18	30 36	5 3	41 31	626 600
7:00 AM	4	273	15	26	303	9	26	11	25	36	7	42	777
7:15 AM	7	250	27	47	321	12	31	18	22	62	7	52	856
7:30 AM 7:45 AM	1 12	285 253	23 32	47 62	389 375	2 8	28 22	22 32	37 15	62 72	6 12	51 46	953 941
8:00 AM	2	252	30	45	310	7	25	22	17	61	14	45	830
8:15 AM	7	230	26	48	327	4	12	17	14	44	3	37	769
8:30 AM 8:45 AM	3 6	225 212	25 25	40 33	307 296	10 10	27 22	16 12	16 13	43 39	4 6	43 21	759 695
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES : APPROACH %'s :	51 1.72%	2675 89.98%	247 8.31%	428 10.92%	3419 87.24%	72 1.84%	254 40.06%	179 28.23%	201 31.70%	519 49.15%	74 7.01%	463 43.84%	8582

PEAK HR START TIME :	71	5 AM											TOTAL
PEAK HR VOL:	22	1040	112	201	1395	29	106	94	91	257	39	194	3580
PEAK HR FACTOR:		0.950			0.913			0.836			0.942		0.939

CONTROL : Signalized

Intersection Turning Movement

National Data & Surveying Services

Project ID: 16-8004-001 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 Ohukai Rd Piilani Hwy Piilani Hwy Ohukai Rd NS/EW Streets: NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS ST 2 SR 1 WR 1 TOTAL NB SB EB WB NT 2 LANES: 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 354 388 424 355 335 356 390 320 288 307 263 229 41 47 42 31 38 37 79 44 40 39 33 35 324 355 341 399 385 327 310 373 342 359 382 317 14 25 19 18 23 22 11 22 25 17 26 23 17 16 18 9 18 23 24 18 22 10 9 55 41 47 56 51 51 54 56 62 42 34 38 914 1009 1046 1015 1006 962 1024 978 927 882 854 766 8 15 8 10 16 11 15 12 14 9 6 13 10 21 20 11 23 16 12 13 19 18 19 11 9 10 15 14 17 16 19 20 25 14 8 12 40 38 61 54 45 51 51 40 53 33 39 32 15 14 14 23 15 13 20 14 13 10 7 WR 537 41.21% ET 205 36.03% ER 171 30.05% TOTAL 11383 NT NR SR WI WT TOTAL VOLUMES APPROACH %'s PEAK HR START TIME : TOTAL PEAK HR VOL 1502 151 158 1480 75 61 56 4076

0.961

CONTROL : Signalized

PEAK HR FACTOR

Project ID:		1				Ca						Tuesday 1/12/2016					
NS/EW Streets:	F	Piilani Hwy		F	Piilani Hwy	A		Ohukai Rd			Ohukai Rd						
	N	ORTHBOUN	D	S	OUTHBOUN	D	-	EASTBOUNI)	V	VESTBOUN	D			U ⁻	TURNS	
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0	ET 1	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL	NB	SB	EB	WB
6:00 AM 6:15 AM	2 2	111 149	7 12	13 24	114 183	4	6	6	4 8	11 23	3	24 30	305 449	0			
6:30 AM 6:45 AM	1 4	213 207	6 18	19 20	250 211	4 1	22 22	5 12	12 18	30 34	4 3	41 29	607 579	0			
7:00 AM 7:15 AM 7:30 AM	3 6	268 248 283	15 26 21	25 45 47	292 311 381	9 9 2	26 31 28	11 18 21	25 21 37	36 61 61	6 7 6	42 52 51	758 835 939	0			
7:45 AM 7:45 AM 8:00 AM	12 2	247 248	32 29	61 43	368 304	8 7	22 25	32 22	15 17	70 59	12 13	46 43	925 812	1 0			
8:15 AM 8:30 AM	7 3	223 219	26 24	46 40	317 300	4 9	12 27	17 16	14 16	43 42	3 4	35 42	747 742	0			
8:45 AM	5	205	25	32	287	10	22	12	13	37	6	20	674	0			
TOTAL VOLUMES : APPROACH %'s :	NL 48 1.65%	NT 2621 90.07%	NR 241 8.28%	SL 415 10.92%	ST 3318 87.29%	SR 68 1.79%	EL 251 39.97%	ET 177 28.18%	ER 200 31.85%	WL 507 49.08%	WT 71 6.87%	WR 455 44.05%	TOTAL 8372	NB 1	SB 0	EB 0	WB 0
PEAK HR START TIME :	715	AM											TOTAL				
PEAK HR VOL:	21	1026	108	196	1364	26	106	93	90	251	38	192	3511				
PEAK HR FACTOR:		0.947			0.907			0.840			0.939		0.935				

Project ID: City:		01				Ca Pi						Tuesday 1/12/2016					
NS/EW Streets:		Piilani Hwy			Piilani Hwy			Ohukai Rd			Ohukai Rd						
	N	IORTHBOUN	ID	S	OUTHBOUN	D	E	ASTBOUN)	٧	VESTBOUNI)			UT	URNS	
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0	ET 1	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL	NB	SB	EB	WB
3:00 PM 3:15 PM	8 15	343 381	26 38	40 47	315 342	14 25	10 21	17 16	14 13	55 41	9	40 38	891 987				_
3:30 PM 3:45 PM 4:00 PM	8 10 15	415 351 327	37 35 39	42 30 37	336 395 380	19 18	20 11 23	16 9 18	14 23 15	47 55 51	15 14 17	60 53 44	1029 1004 989				
4:15 PM 4:30 PM	11 14	354 379	39 45	37 76	323 308	23 22 11	16 12	23 24	13 13	51 51 54	16 19	50 50	955 1005				
4:45 PM 5:00 PM	12 14	306 285	39 23	44 38	371 337	22 25	13 19	18 22	19 14	56 62	20 25	40 53	960 917				
5:15 PM 5:30 PM	9	302 258	21 25	39 32	356 380	17 26	17 19	10 9	13 10	42 34	14 8	33 37	873 844				
5:45 PM	13	226	28	35	309	23	11	21	7	36	12	32	753				
TOTAL VOLUMES : APPROACH %'s :	NL 135 3.03%	NT 3927 88.11%	NR 395 8.86%	SL 497 10.16%	ST 4152 84.84%	SR 245 5.01%	EL 192 34.10%	ET 203 36.06%	ER 168 29.84%	WL 584 45.17%	WT 179 13.84%	WR 530 40.99%	TOTAL 11207	NB 0	SB 0	EB 0	WB 0
K HR START TIME :	315	PM											TOTAL				
PEAK HR VOL:	48	1474	149	156	1453	85	75	59	65	194	56	195	4009				

CONTROL : Signalized

WB

Project ID: 16-8004-001 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 ΔM

NS/EW Streets:																	
		Piilani Hwy		1	Piilani Hwy			Ohukai Rd		(Ohukai Rd						
	N	ORTHBOUN	ID	S	OUTHBOUN	D		ASTBOUN	D	V	VESTBOUN	D		_		UTI	JRNS
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0	ET 1	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL		NB	SB	EB
6:00 AM	0	2	0	0	8	0	0	0	0	0	0	0	10	-			
6:15 AM	0	5	1	0	6	0	0	0	0	0	0	0	12				
6:30 AM	0	3	0	2	12	0	1	0	0	0	1	0	19				
6:45 AM	0	5	0	2	/_	0	2	1	0	2	0	2	21				
7:00 AM 7:15 AM	- 1	5	0	1	11	0	Ü	0	0	0	0	0	19 21				
	1	2	1	0	10 8	0	U	1	1	1	0	0	14				
7:30 AM 7:45 AM	0 0	2	2	1	8	0	0	1	0	1	0	0	16				
8:00 AM	0	4	1	2	6	0	0	0	0	2	1	2	18				
8:15 AM	0	7	Ö	2	10	0	ň	0	0	1	ó	2	22				
8:30 AM	Ö	6	1	Õ	7	1	0	0	0	i	Ö	1	17				
8:45 AM	1	7	0	1	9	0	0	Ō	Ō	2	Ō	1	21				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL		NB	SB	EB
TOTAL VOLUMES : APPROACH %'s :	3 4.76%	54 85.71%	6 9.52%	13 11.02%	101 85.59%	4 3.39%	3 50.00%	2 33.33%	1 16.67%	12 52.17%	3 13.04%	8 34.78%	210		0	0	0

CONTROL : Signalized

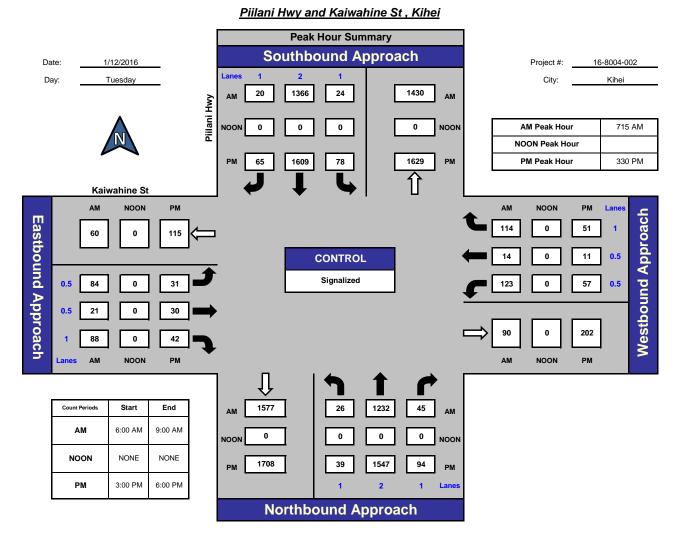
Project ID: 16-8004-001 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 PM

						P	M										
NS/EW Street	s:	Piilani Hwy			Piilani Hwy			Ohukai Rd			Ohukai Rd						
	N	NORTHBOUN	ID	S	OUTHBOUN	D		EASTBOUN	D	V	VESTBOUN	D			UT	TURNS	
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0	ET 1	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL	NB	SB	EB	WB
3:00 PM 3:15 PM 3:30 PM	0	11 7 9	1 1	1 0	9 13	0	0 0 0	0 0 2	1 1	0	0	0 0	23 22 17				
3:45 PM 4:00 PM	0	4 8	0	1	4 5	0	0	0	0	1	0	1	11 17				
4:15 PM 4:30 PM	1	2 11	0	3	2	0	0	0 0 0	0	0	0	1	7 19				
4:45 PM 5:00 PM 5:15 PM	0	14 3 5	0	2	5 3	0	0 0 1	0	0	0 0 0	0 0 0	0 0 0	18 10 9				
5:30 PM 5:45 PM		5 3	0 0	1 0	2 8	0	0	0	0	0 2	0	2 0	10 13				
TOTAL VOLUMES APPROACH %'s		NT 82 92.13%	NR 5 5.62%	SL 9 12.68%	ST 62 87.32%	SR 0 0.00%	EL 1 16.67%	ET 2 33.33%	ER 3 50.00%	WL 3 30.00%	WT 0 0.00%	WR 7 70.00%	TOTAL 176	NB 0	SB 0	EB 0	WB 0
PEAK HR START TIME PEAK HR VOL		PM 28	2	2	27	0	0	2	1	1	0	3	TOTAL 67				

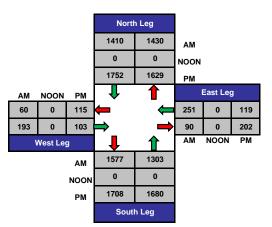
CONTROL : Signalized

ITM Peak Hour Summary

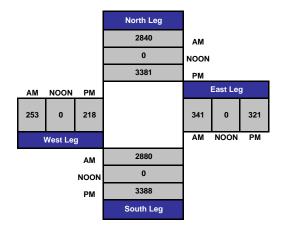








Total Volume Per Leg



Project ID: 16-8004-002 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016

NS/EW Streets:	Pillani Hwy NORTHBOUND				Piilani Hwy		K	aiwahine S	t	Ka	aiwahine St							
	N	ORTHBOUN	ID	S	OUTHBOUN	D		EASTBOUN	D	V	VESTBOUN	D		•		U ⁻	TURNS	
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0.5	ET 0.5	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL		NB	SB	EB	WB
6:00 AM 6:15 AM 6:30 AM 6:45 AM 7:00 AM 7:15 AM 7:30 AM 8:00 AM 8:15 AM 8:30 AM	3 6 3 6 8 4 4 10 8 7	134 185 248 268 308 355 312 278 287 257 310 220	4 4 4 11 5 9 6 13 17 4	5 1 7 2 2 2 1 8 13 5 4	122 195 246 206 272 339 339 366 322 340 327 305	2 5 3 3 5 5 7 4 4 7 5	7 6 21 23 12 21 23 11 29 8 15	1 3 0 3 2 3 8 4 6 9	6 5 17 11 14 28 25 16 19 22 12	16 13 19 18 30 31 42 33 17 10 13	4 7 2 6 7 4 8 1 1 5 6	15 19 19 32 30 49 31 19 15 17	319 449 589 589 695 850 806 763 738 691 730 618					
TOTAL VOLUMES : APPROACH %'s :	NL 73 2.19%	NT 3162 95.01%	NR 93 2.79%	SL 60	ST 3379 96.57%	SR 60 1.71%	EL 185	ET 46 10.93%	ER 190 45.13%	WL 255	WT 53 9.00%	WR 281 47.71%	TOTAL 7837		NB 0	SB 0	EB 0	WB 0

PEAK HR START TIME :	715	5 AM											TOTAL
PEAK HR VOL:	26	1232	45	24	1366	20	84	21	88	123	14	114	3157
PEAK HR FACTOR:		0.885			0.933			0.862			0.747		0.929

UTURNS

EB

WB

SB

NB

Project ID: 16-8004-002 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 РМ

NS/EW Streets:	į	Piilani Hwy		į	Piilani Hwy		K	aiwahine St		K	aiwahine St		
	N	ORTHBOUN	ID	S	OUTHBOUN	D		EASTBOUNI)	٧	VESTBOUN	D	•
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0.5	ET 0.5	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL
3:00 PM	18	359	14	22	338	11	9	9	9	17	5	8	819
3:15 PM	12	406	15	18	395	12	8	12	8	15	3	12	916
3:30 PM	6	411	22	24	360	18	11	9	9	17	3	8	898
3:45 PM	10	378	26	22	443	14	9	5	11	9	5	8	940
4:00 PM	12	349	13	14	424	15	6	6	9	12	1	18	879
4:15 PM	11	409	33	18	382	18	5	10	13	19	2	17	937
4:30 PM	9	380	25	18	339	17	7	10	13	15	0	9	842
4:45 PM	12	331	14	31	381	13	5	9	14	19	1	10	840
5:00 PM	12	329	14	19	405	11	3	6	16	18	8	9	850
5:15 PM	11	332	16	34	375	29	9	13	14	13	3	13	862
5:30 PM	7	313	14	18	407	16	7	9	23	23	4	12	853
5:45 PM	11	246	19	17	360	18	4	10	19	11	3	12	730
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES : APPROACH %'s :	131 2.85%	4243 92.26%	225 4.89%	255 5.04%	4609 91.16%	192 3.80%	83 23.78%	108 30.95%	158 45.27%	188 51.93%	38 10.50%	136 37.57%	10366
DEAK UD STADT TIME :	2.0370		5770	5.5476	71.1070	3.3070	20.7070	55.7576	10.2770	01.7070	10.0070	07.3770	TOTAL

PEAK HR START TIME :	330) PM											TOTAL
PEAK HR VOL:	39	1547	94	78	1609	65	31	30	42	57	11	51	3654
PEAK HR FACTOR:		0.927			0.914			0.888			0.783		0.972

WB

Project ID: City:		12				Ca Al						Tuesday 1/12/2016					
NS/EW Streets:	ı	Piilani Hwy		F	Piilani Hwy		К	aiwahine St		Ka	aiwahine St						
	N	ORTHBOUN	D	S	OUTHBOUN)		ASTBOUN)	V	VESTBOUNI)			UTI	JRNS	
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0.5	ET 0.5	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL	NB	SB	EB	
6:00 AM 6:15 AM 6:30 AM 6:45 AM 7:00 AM 7:15 AM 7:30 AM 8:00 AM 8:15 AM 8:30 AM	3 6 3 5 6 4 4 10 8 6	132 179 247 256 306 353 311 271 281 248 303	4 4 3 11 4 9 5 13 17 4	5 0 4 2 1 2 1 8 13 5	117 189 233 197 264 324 334 357 317 327 320	1 4 2 3 5 5 6 4 4 7	7 6 20 23 11 20 23 11 28 8	0 3 0 3 2 3 8 3 6 9	5 4 17 11 13 26 24 15 18 21	15 13 19 16 29 31 42 33 17 10	4 7 2 6 7 4 8 1 1 5 6	15 19 17 32 30 49 31 17 15 17	308 434 567 565 678 830 797 743 725 667 715				
8:45 AM	7	214	7	10	294	9	9	4	15	13	2	16	600				
TOTAL VOLUMES : APPROACH %'s :	NL 69 2.12%	NT 3101 95.12%	NR 90 2.76%	SL 55 1.63%	ST 3273 96.75%	SR 55 1.63%	EL 180 44.44%	ET 44 10.86%	ER 181 44.69%	WL 251 43.20%	WT 53 9.12%	WR 277 47.68%	TOTAL 7629	NB 0	SB 0	EB 0	
PEAK HR START TIME :	715	AM											TOTAL				
PEAK HR VOL:	26	1216	44	24	1332	19	82	20	83	123	14	112	3095				
PEAK HR FACTOR :		0.878			0.932			0.841			0.741		0.932				

SB EB

WB

Project ID: City:)2					ars M					Tuesday 1/12/2016				
NS/EW Streets:		Piilani Hwy			Piilani Hwy		К	aiwahine St	t	K	aiwahine St	t				
	N	ORTHBOUN	ID	S	OUTHBOUN	D		EASTBOUNI	D	1	WESTBOUN	D			UTI	JRNS
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0.5	ET 0.5	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL	NB	SB	EB
3:00 PM	18	344	13	21	324	11	9	9	9	17	4	8	787	0		
3:15 PM	11	399	15	18	379	12	8	12	8	15	3	10	890	0		
3:30 PM	6	401	22	24	355	18	11	9	9	17	3	8	883	0		
3:45 PM	10	370	25	22	433	14	9	5	11	9	5	8	921	0		
4:00 PM	12	337	13	14	416	15	6	6	9	12	1	18	859	0		
4:15 PM	11	404	33	18	375	18	5	9	13	19	2	16	923	0		
4:30 PM	9	376	25	18	338	17	7	10	13	15	0	9	837	0		
4:45 PM	11	319	13	31	380	13	5	9	14	19	1	10	825	0		
5:00 PM	12	328	14	18	398	11	3	6	16	18	8	9	841	0		
5:15 PM	11	328	16	34	372	29	9	13	14	13	3	13	855	0		
5:30 PM	7	307	14	18	405	16	7	9	23	23	4	12	845	1		
5:45 PM	11	245	19	17	356	17	4	10	19	11	3	12	724	0		
TOTAL VOLUMES : APPROACH %'s :	NL 129 2.86%	NT 4158 92.22%	NR 222 4.92%	SL 253 5.09%	ST 4531 91.08%	SR 191 3.84%	EL 83 23.85%	ET 107 30.75%	ER 158 45.40%	WL 188 52.51%	WT 37 10.34%	WR 133 37.15%	TOTAL 10190	NB 1	SB 0	EB 0
PEAK HR START TIME :	330	PM											TOTAL			
PEAK HR VOL:	39	1512	93	78	1579	65	31	29	42	57	11	50	3586			

CONTROL : Signalized

WB

Project ID: 16-8004-002 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 ΔM

	Piilani Hwy		í	Piilani Hwy		К	aiwahine St		Ka	aiwahine S	it						
N	ORTHBOUN	ID	S	OUTHBOUN	D	E	ASTBOUN)	V	VESTBOUN	ID				UT	URNS	_
NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0.5	ET 0.5	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL		NB	SB	EB	
0	2	0	0	5	1	0	1	1	1	0	0	11					_
	6	0	1		1	0	0	1									
1	12	1	0		0	1	0	0	2								
2	2	1	1			1	0	1	1								
ō	2	ò	ò		Ö	i	Ö	2	ò	Ö	Ö						
0	1	1	0	5	1	0	0	1	0	0	0	9					
0	7	0	0	9	0	0	1	1	0	0	2	20					
0	6	0	0	5	0	1	0	1	0	0	0	13					
1	9	0	0		0	0	0	1	0	0	0	24					
	7	0			0	1	0	0									
0	6	0	0	11	1	0	0	0	0	0	0	18					
NL 4 5.88%	NT 61 89 71%	NR 3 4 41%	SL 5 4 31%	ST 106 91 38%	SR 5 4 31%	EL 5 31.25%	ET 2 12 50%	ER 9 56.25%	WL 4 50.00%	WT 0 0.00%	WR 4 50.00%	TOTAL 208		NB 0	SB 0	EB 0	Ī
	NL 1 0 0 0 0 1 2 0 0 0 0 1 0 0 0 0 0 0 0 0	NIL NT 1 2 0 2 0 6 0 1 1 12 2 2 0 2 0 0 6 1 0 7 0 6 1 9 9 0 7 0 6 ML NT 4 61	1 2 1 0 2 0 0 6 0 1 1 1 12 0 2 2 1 0 2 0 0 1 1 1 0 2 2 1 0 2 0 0 1 1 1 0 7 0 0 6 0 1 9 0 0 7 0 0 6 0 NL NT NR 4 61 3	NIL NT NR SL 1 2 1 1 0 2 0 0 0 6 0 1 1 1 3 1 12 0 0 2 2 1 1 1 10 0 2 0 0 0 6 0 0 1 1 1 2 0 0 2 2 1 1 0 2 2 0 0 0 1 1 0 0 0 7 0 0 0 6 0 0 0 1 9 0 0 0 7 0 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NL NT NR SL ST 1 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1	NL NT NR SL ST SR 1 2 1 1 2 1 0 2 0 0 5 1 0 6 0 1 6 1 0 1 1 3 13 1 1 12 0 0 9 0 2 2 1 1 1 8 0 0 2 2 1 1 1 8 0 0 2 0 0 15 0 1 1 1 3 13 1 1 1 12 0 0 9 0 2 2 1 1 1 8 0 0 2 0 0 15 0 0 1 1 0 5 1 0 7 0 0 9 0 0 6 0 0 5 0 1 9 0 0 13 0 0 7 0 0 7 0 0 6 0 0 7 0 0 6 0 0 11 1 NL NT NR SL ST SR 4 61 3 5 106 5	NL NT NR SL ST SR EL 1 1 2 1 0.5 0 2 0 0 5 1 0.5 0 6 0 1 6 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1	NL NT NR SL ST SR EL ET 1 1 2 1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	NL NT NR SL ST SR EL ET ER 1 2 1 1 2 1 0.5 0.5 1 0 2 0 0 5 1 0 1 1 0 6 0 1 6 1 0 0 1 0 1 1 3 13 1 1 0 0 1 1 12 0 0 9 0 0 0 0 0 2 2 2 1 1 8 0 1 0 1 0 1 0 1 0 2 0 0 15 0 1 0 2 0 0 1 0 1 0 2 0 0 1 0 0 1 0 0 1 0 0 1 1 0	NL NT NR SL ST SR EL ET ER WL 1 2 1 1 2 1 0.5 0.5 1 0.5 0 2 0 0 5 1 0 1 1 1 1 0 6 0 1 6 0 1 6 1 0 0 1 1 0 1 1 12 0 0 9 0 0 0 0 0 0 1 1 1 8 0 1 0 0 1 0 1 1 12 0 0 0 9 0 0 0 0 0 2 2 2 1 1 1 8 0 1 0 1 0 1 1 0 2 0 0 15 1 0 1 0 1 1 0 2 0 0 15 1 0 0 1 0 1 0 1 1 0 0 0 0 1 1 0 0 1 1 0 0 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 NT NR SL ST SR EL ET ER WL 4 61 3 5 106 5 5 5 2 9 4	NL NT NR SL ST SR EL ET ER WL WT 1 2 1 1 2 1 0.5 0.5 1 0.5 0.5 1 0.5 0.5 1 0.5 0.5 1 0.5 0.5 0.5 1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	NL NT NR SL ST SR EL ET ER WL WT WR 1 2 1 1 2 1 0.5 0.5 1 0.5 0.5 1 0 2 0 0 5 1 0 1 1 1 0 2 0 0 0 0 2 0 0 0 2 0 0 0 2 0 0 0 0 0 2 0 0 0 0 2 0	NL NT NR SL ST SR EL ET ER WL WT WR TOTAL 0 2 0 0 5 1 0.5 0.5 1 0.5 0.5 1 0 0 1 1 0 0 11 0 0 11 0 0 11 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 2 2 2 1 1 8 0 1 0 0 0 2 2 0 0 2 2 0 0 2 0 0 2 0 0 2 0 0 1 0	NL NT NR SL ST SR EL ET ER WL WT WR TOTAL 1 2 1 1 2 1 0.5 0.5 1 0.5 0.5 1 0 2 0 0 5 1 0 1 1 0 0 1 1 0 0 0 11 0 6 0 1 6 1 0 0 1 1 0 0 0 15 0 1 1 3 13 1 1 0 0 0 0 0 0 0 2 22 1 1 12 0 0 9 0 0 0 0 0 0 2 0 0 24 2 2 1 1 1 8 0 1 0 1 1 1 0 0 0 17 0 2 0 0 15 0 1 0 1 0 1 1 1 0 0 0 17 0 2 0 0 15 0 1 0 0 1 0 0 1 1 0 0 0 17 0 2 0 0 15 0 1 0 1 0 0 0 1 1 0 0 0 17 0 2 0 0 0 15 0 1 0 0 1 0 0 0 17 0 2 0 0 0 15 0 1 0 0 2 0 0 0 20 0 1 1 0 0 0 0 0 0 0 0 2 20 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NL NT NR SL ST SR EL ET ER WL WT WR TOTAL 0 2 0 0 5 1 0.5 0.5 1 0.5 0.5 1 0 1 1 0 0 0 11 0 6 0 1 6 1 0 0 0 1 0 0 0 15 0 1 1 1 3 13 11 1 0 0 0 0 15 0 1 1 1 2 0 0 9 0 0 0 0 0 0 0 2 22 1 1 12 0 0 0 9 0 0 0 0 0 0 2 20 1 1 1 0 0 1 1 1 1 0 0 17 0 2 0 0 15 0 1 0 0 1 1 1 0 0 17 0 2 0 0 15 0 0 1 0 0 0 0 2 22 1 1 12 0 0 0 9 0 0 0 0 0 0 2 20 0 1 1 1 0 0 0 1 1 1 0 0 0 17 0 2 0 0 0 15 0 1 0 0 1 0 0 0 17 0 2 0 0 0 15 0 1 0 0 2 0 0 0 20 0 1 1 0 0 5 1 0 0 1 0 0 0 0 0 0 0 0 7 0 0 0 9 0 0 1 1 0 0 0 0 0 0 0 6 0 0 5 0 1 1 0 1 0 0 0 0 13 1 9 0 0 0 13 0 0 0 1 0 0 0 0 13 1 9 0 0 0 13 0 0 0 1 0 0 0 0 24 0 7 0 0 0 7 0 1 0 0 0 0 0 0 0 0 24 0 7 0 0 0 7 0 1 0 0 0 0 0 0 0 0 15 0 6 0 0 0 11 1 0 0 0 0 0 15 NL NT NR SL ST SR EL ET ER WL WT WR TOTAL NB O	NL NT NR SL ST SR EL ET ER WL WT WR TOTAL NB SB 0 2 0 0 5 1 0 1 1 0 0 11 0 0 11 0 0 11 0 0 11 0 0 11 0 0 11 0 0 11 0 0 15 0 0 0 0 0 0 0 0 15 0 0 0 0 0 0 0 15 0 0 0 0 0 0 0 0 0 2 2 2 1 1 8 0 1 0 0 0 2 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0	NL NT NR SL ST SR EL ET ER WL WT WR TOTAL 0 2 0 0 5 1 0 1 1 1 0 0 0 11 0 6 0 1 6 1 0 0 0 1 0 0 0 0 15 0 1 1 1 2 2 1 1 0 0 0 0 1 1 0 0 0 15 0 1 1 1 2 0 0 9 0 0 0 0 0 0 0 0 0 2 1 1 1 2 0 0 0 9 0 0 0 0 0 0 2 22 1 1 12 0 0 0 9 0 0 0 0 0 0 2 22 1 1 12 0 0 0 15 0 1 0 0 1 1 1 0 0 0 17 0 2 0 0 15 0 1 0 0 1 1 0 0 0 17 0 2 0 0 15 0 1 0 0 1 1 1 0 0 0 17 0 2 0 0 0 15 0 1 0 0 1 1 1 0 0 0 17 0 2 0 0 0 15 0 1 0 0 2 0 0 20 0 1 1 0 0 5 1 0 0 0 1 0 0 0 0 0 0 0 0 0

CONTROL : Signalized

Project ID: 16-8004-002 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 РМ

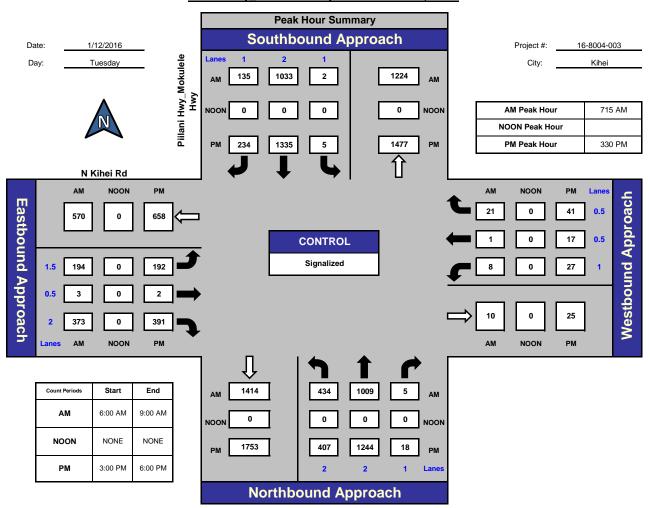
_						PΝ	Л										
NS/EW Streets:		Piilani Hwy			Piilani Hwy		ı	Kaiwahine St		K	aiwahine St	1					
•	N	ORTHBOUN	ID	S	OUTHBOUN	D		EASTBOUND)	١	WESTBOUN	D			UTI	URNS	
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0.5	ET 0.5	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL	NB	SB	EB	WB
3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:30 PM	0 1 0 0 0 0 0 0 1 0	15 7 10 8 12 5 4 12 1 4 6	1 0 0 1 0 0 0 1 0 0	1 0 0 0 0 0 0 0 0	14 16 5 10 8 7 1 1 7 3 2	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 1 1 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0	0 2 0 0 0 1 0 0 0	32 26 15 19 20 14 5 15 9 7				
TOTAL VOLUMES : APPROACH %'S : PEAK HR START TIME :	NL 2 2.22%		NR 3 3.33%	SL 2 2.47%	ST 78 96.30%	SR 1 1.23%	EL 0 0.00%	ET 1 100.00%	ER 0 0.00%	WL 0 0.00%	WT 1 25.00%	WR 3 75.00%	TOTAL 176	NB 0	SB 0	EB 0	WB 0
PEAK HR VOL:	0	35	1	0	30	0	0	1	0	0	0	1	68				

CONTROL : Signalized

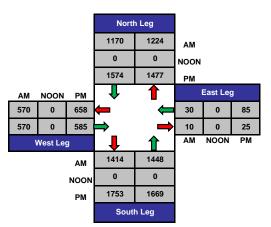
ITM Peak Hour Summary



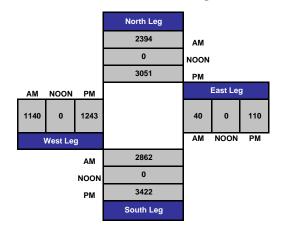
Piilani Hwy_Mokulele Hwy and N Kihei Rd, Kihei







Total Volume Per Leg



Project ID: 16-8004-003 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016

						AN	Л												
NS/EW Streets:	Piilani H	wy_Mokulel	e Hwy	Piilani H	wy_Mokulel	e Hwy	1	l Kihei Rd		1	N Kihei Rd								
	N	ORTHBOUN	D	S	OUTHBOUN	D	E	ASTBOUN)	V	VESTBOUN	D				L	JTURNS		
LANES:	NL 2	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1.5	ET 0.5	ER 2	WL 1	WT 0.5	WR 0.5	TOTAL	1	ΝB	SB		EB	WB
6:00 AM	50	108	2	3	109	13	8	1	34	0	1	0	329						
6:15 AM 6:30 AM	66 100	124 191	8 11	14 21	138 188	10 19	36 38	0	44 52	6	2	0 4	446 632						
6:45 AM 7:00 AM	91 105	216 234	8	12 0	172 227	27 19	37 44	10 1	43 50	3	0	3	622 684						
7:15 AM	115	299	3	Ö	241	39	50	2	95	4	ī	13	862						
7:30 AM 7:45 AM	110 107	269 228	0	1	249 300	26 42	59 42	0	98 91	1	0	4	819 816						
8:00 AM 8:15 AM	102 76	213 208	1 3	0	243 269	28 28	43 32	0	89 80	2	0	0	721 700						
8:30 AM	77	253	0	0	235	25	36	1	92	1	i	1	722						
8:45 AM	62	196	0	2	230	23	44	0	95	2	0	1	655						
TOTAL VOLUMES : APPROACH %'s :	NL 1061 29.16%	NT 2539 69.77%	NR 39 1.07%	SL 57 1.93%	ST 2601 87.96%	SR 299 10.11%	EL 469 34.79%	ET 16 1.19%	ER 863 64.02%	WL 27 42.19%	WT 6 9.38%	WR 31 48.44%	TOTAL 8008	ı	NB O	SB 0		EB 0	WB 0
PEAK HR START TIME :	715	AM											TOTAL						
PEAK HR VOL:	434	1009	5	2	1033	135	194	3	373	8	1	21	3218						

CONTROL : Signalized

UTURNS

EB

WB

SB

NB

Project ID: 16-8004-003 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 РМ

_						FI	VI .						
NS/EW Streets:	Piilani H	wy_Mokulel	le Hwy	Piilani H	wy_Mokule	le Hwy	I.	l Kihei Rd			N Kihei Rd		
	N	ORTHBOUN	ID	S	OUTHBOUN	ID	E	ASTBOUN)	V	VESTBOUN	D	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	2	2	1	1	2	1	1.5	0.5	2	1	0.5	0.5	
3:00 PM	104	275	4	3	313	59	59	1	83	7	0	1	909
3:15 PM	96	313	4	17	306	44	46	1	89	1	0	1	918
3:30 PM	104	337	9	3	343	50	47	0	79	15	8	31	1026
3:45 PM	95	286	3	1	353	67	51	0	112	5	2	7	982
4:00 PM	92	289	5	1	345	60	51	2	92	4	6	3	950
4:15 PM	116	332	1	0	294	57	43	0	108	3	1	0	955
4:30 PM	110	302	2	0	289	56	47	0	91	0	0	3	900
4:45 PM	86	247	1	0	333	61	27	0	104	0	0	1	860
5:00 PM	92	236	0	0	312	35	39	0	112	0	1	0	827
5:15 PM	103	241	1	2	330	61	39	0	102	0	1	0	880
5:30 PM	90	233	0	0	323	44	30	0	100	1	0	0	821
5:45 PM	80	188	0	0	289	50	31	0	103	0	0	0	741
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES:	1168	3279	30	27	3830	644	510	4	1175	36	19	47	10769
APPROACH %'s :	26.09%	73.24%	0.67%	0.60%	85.09%	14.31%	30.20%	0.24%	69.57%	35.29%	18.63%	46.08%	
AK HR START TIME :	330	DM											TOTAL

PEAK HR START TIME :	330	PM											TOTAL
PEAK HR VOL:	407	1244	18	5	1335	234	192	2	391	27	17	41	3913
PEAK HR FACTOR:		0.927			0.935			0.897			0.394		0.953

Project ID:		13				Ca	rs					Tuesday					
City:	Kihei					IA.	Л				Date:	1/12/2016					
NS/EW Streets:	Piilani H	wy_Mokulel	e Hwy	Piilani H	wy_Mokulel			N Kihei Rd			N Kihei Rd						
-	N	ORTHBOUN	D	S	OUTHBOUN	D	E	ASTBOUN)	١	VESTBOUN	D			UT	TURNS	
LANES:	NL 2	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1.5	ET 0.5	ER 2	WL 1	WT 0.5	WR 0.5	TOTAL	NB	SB	EB	WB
6:00 AM 6:15 AM	49 66	106 119	2 8	3 14	103 131	12 10	8 36	1 0	34 44	0	1 0	0	319 434				
6:30 AM	99	187	11	21	171	18	38	0	51	6	2	4	608				
6:45 AM 7:00 AM	91 104	205 230	8 2	12 0	167 217	25 17	36 43	10 1	41 50	3 1	0	3 1	601 666				
7:15 AM 7:30 AM	115 110	297 267	3	0	229 242	37 25	47 59	2	93 98	4	1 0	6 3	834 808				
7:45 AM	105	223	ó	i	292	40	42	ó	90	i	ō	4	798				
8:00 AM 8:15 AM	102 75	206 201	1 2	0 2	238 257	27 27	42 31	0	88 80	2 0	0 1	0	706 676				
8:30 AM 8:45 AM	76 61	248 190	0	0 2	227 221	22 20	34 43	1 0	91 94	1	1 0	1	702 633				
WIA CF.0																	
TOTAL VOLUMES : APPROACH %'s :	NL 1053 29.50%	NT 2479 69.44%	NR 38 1.06%	SL 56 1.98%	ST 2495 88.13%	SR 280 9.89%	EL 459 34.54%	ET 16 1.20%	ER 854 64.26%	WL 26 47.27%	WT 6 10.91%	WR 23 41.82%	TOTAL 7785	NB 0	SB 0	EB 0	WB 0
PEAK HR START TIME :	715	AM											TOTAL				
PEAK HR VOL:	432	993	5	2	1001	129	190	3	369	8	1	13	3146				
PEAK HR FACTOR :		0.861			0.850			0.889			0.500		0.943				

Project ID: 16-8004-003 Day: Tuesday City: Kihei Date: 1/12/2016

_						PN	Л						
NS/EW Streets:	Piilani H	wy_Mokulel	e Hwy	Piilani H	wy_Mokule	le Hwy	I.	I Kihei Rd		ı	N Kihei Rd		
	N	ORTHBOUN	D	S	OUTHBOUN	ID	E	ASTBOUND)	V	VESTBOUNI	D	
LANES:	NL 2	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1.5	ET 0.5	ER 2	WL 1	WT 0.5	WR 0.5	TOTAL
3:00 PM	102	261	4	3	301	59	56	1	82	5	0	1	875
3:15 PM	94	308	4	8	296	44	44	1	85	1	0	1	886
3:30 PM	103	326	9	3	339	49	45	0	77	15	7	30	1003
3:45 PM	95	279	3	1	346	65	50	0	110	5	2	7	963
4:00 PM	91	276	5	1	337	60	47	2	91	4	6	3	923
4:15 PM	115	328	1	0	291	56	42	0	106	3	1	0	943
4:30 PM	109	297	2	0	288	56	47	0	91	0	0	3	893
4:45 PM	84	239	1	0	333	60	27	0	102	0	0	1	847
5:00 PM	91	234	0	0	309	34	36	0	108	0	1	0	813
5:15 PM	103	238	1	2	328	61	39	0	101	0	1	0	874
5:30 PM	88	229	0	0	321	43	30	0	100	1	0	0	812
5:45 PM	80	186	0	0	283	49	31	0	101	0	0	0	730
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTA
TOTAL VOLUMES:	1155	3201	30	18	3772	636	494	4	1154	34	18	46	10562
APPROACH %'s:	26.33%	72.98%	0.68%	0.41%	85.22%	14.37%	29.90%	0.24%	69.85%	34.69%	18.37%	46.94%	
AK HR START TIME :	330	PM											TOTAL

1313

	UTU	IRNS	
NB	SB	EB	WB
NB O	SB 0	EB 0	WB 0

3832

0.399

CONTROL : Signalized

PEAK HR VOL

Project ID: 16-8004-003 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 AM

						A	VI										
NS/EW Streets:	Piilani H	wy_Mokulel	e Hwy	Piilani H	wy_Mokule	le Hwy	1	N Kihei Rd		1	N Kihei Rd						
	N	ORTHBOUN	D	S	OUTHBOUN	ID	E	ASTBOUN	D	V	/ESTBOUN	D			UT	JRNS	
LANES:	NL 2	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1.5	ET 0.5	ER 2	WL 1	WT 0.5	WR 0.5	TOTAL	NB	SB	EB	WB
6:00 AM 6:15 AM	1	2 5	0	0	6	1 0	0	0	0	0	0	0	10 12				
6:30 AM 6:45 AM 7:00 AM	1 0 1	4 11 4	0 0 0	0 0 0	17 5 10	1 2 2	0 1 1	0	1 2	0 0 0	0 0 0	0	24 21 18				
7:15 AM 7:30 AM	0	2	0	0	12 7	2	3	0	2	0	0	7 1	28 11				
7:45 AM 8:00 AM	0	5 7	0	0	8 5	1	0	0	1	0	0	0	18 15				
8:15 AM 8:30 AM 8:45 AM	1	, 5 6	0	0	12 8 9	3	1 2 1	0	0 1 1	0 0 1	0 0 0	0	24 20 22				
	NL NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES : APPROACH %'s :	8 11.59%	60 86.96%	1 1.45%	1 0.79%	106 84.13%	19 15.08%	10 52.63%	0 0.00%	9 47.37%	1 11.11%	0 0.00%	8 88.89%	223	0	0	0	0
PEAK HR START TIME :	715	AM											TOTAL				
PEAK HR VOL:	2	16	0	0	32	6	4	0	4	0	0	8	72				

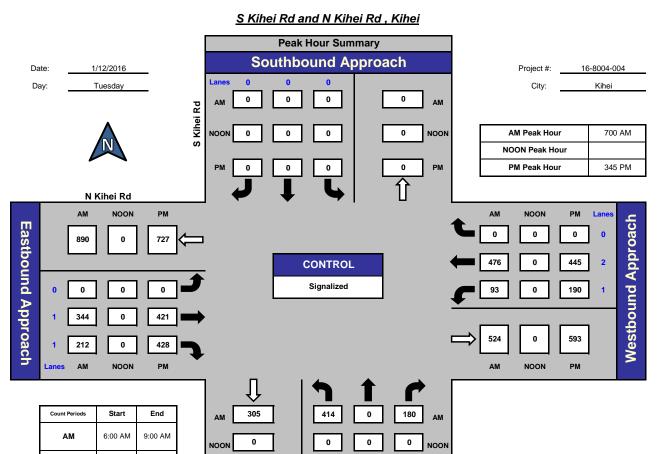
CONTROL : Signalized

Project ID: 16-8004-003 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016

oity.	KIIICI					PI	И				Date.	17 12/2010					
NS/EW Streets:	Piilani H	wy_Mokulel	e Hwy	Piilani H	wy_Mokule	le Hwy		N Kihei Rd			N Kihei Rd						
	N	ORTHBOUN	D	S	OUTHBOUN	D		EASTBOUN)	١	WESTBOUN	D			UTI	JRNS	
LANES:	NL 2	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1.5	ET 0.5	ER 2	WL 1	WT 0.5	WR 0.5	TOTAL	NB	SB	EB	WB
3:00 PM	2	14	0	0	12	0	3	0	1	2	0	0	34	-			
3:15 PM	2	5	0	9	10	0	2	0	4	0	0	0	32				
3:30 PM	1	11	0	0	4	1	2	0	2	0	1	1	23				
3:45 PM	0	7	0	0	7	2	1	0	2	0	0	0	19				
4:00 PM	1	13	0	0	8	0	4	0	1	0	0	0	27				
4:15 PM	1	4	0	0	3	1	1	0	2	0	0	0	12				
4:30 PM	1	5	0	0	1	0	0	0	0	0	0	0	7				
4:45 PM	2	8	0	0	0	1	0	0	2	0	0	0	13				
5:00 PM	1	2	0	0	3	1	3	0	4	0	0	0	14				
5:15 PM	0	3	0	0	2	0	0	0	1	0	0	0	6				
5:30 PM	2	4	0	0	2	1	0	0	0	0	0	0	9				
5:45 PM	0	2	0	0	6	1	0	0	2	0	0	0	11				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	13	78	0	9	58	8	16	0	21	2	1	1	207	0	0	0	0
APPROACH %'s :	14.29%	85.71%	0.00%	12.00%	77.33%	10.67%	43.24%	0.00%	56.76%	50.00%	25.00%	25.00%		ļ	l	l	Į
PEAK HR START TIME :	330	PM											TOTAL				
PEAK HR VOL:	3	35	0	0	22	4	8	0	7	0	1	1	81				
PEAK HR FACTOR:		0.679			0.722			0.750			0.250		0.955				

ITM Peak Hour Summary





282

Northbound Approach

0

0

172

РМ



NONE

3:00 PM

NONE

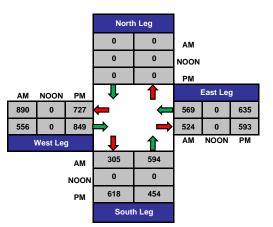
6:00 PM

618

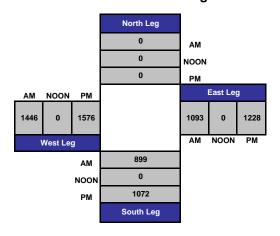
РМ

NOON

ΡМ



Total Volume Per Leg



UTURNS

EB

WB

SB

NB

Project ID: 16-8004-004 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 AM

NS/EW Streets:	9	S Kihei Rd			S Kihei Rd			N Kihei Rd			N Kihei Rd		
	N	ORTHBOUN	ID	S	OUTHBOU	ND		EASTBOUND)	١	VESTBOUNE)	
LANGO	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	2	0	1	0	0	0	0	1	1	1	2	0	
6:00 AM	71	0	9	0	0	0	0	28	19	10	51	0	188
6:15 AM	62	0	33	0	0	0	0	53	20	8	70	0	246
6:30 AM	76	0	34	0	0	0	0	62	23	17	99	0	311
6:45 AM	89	0	39	0	0	0	0	58	33	18	107	0	344
7:00 AM	143	0	40	0	0	0	0	59	42	17	112	0	413
7:15 AM	106	0	47	0	0	0	0	95	52	19	131	0	450
7:30 AM	92	0	52	0	0	0	0	100	61	24	114	0	443
7:45 AM	73	0	41	0	0	0	0	90	57	33	119	0	413
8:00 AM	78	0	37	0	0	0	0	100	45	21	106	0	387
8:15 AM	70	0	29	0	0	0	0	81	58	22	81	0	341
8:30 AM	64	0	33	0	0	0	0	108	59	26	78	0	368
8:45 AM	65	0	33	0	0	0	0	92	55	14	65	0	324
1	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTA
TOTAL VOLUMES :	989	0	427	0	0	0	0	926	524	229	1133	0	4228
APPROACH %'s:	69.84%	0.00%	30.16%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	63.86%	36.14%	16.81%	83.19%	0.00%	

_														
П	PEAK HR START TIME :	700) AM											TOTAL
Г				-										
	PEAK HR VOL:	414	0	180	0	0	0	0	344	212	93	476	0	1719
	· Link ink voc .		ŭ		ľ	ŭ	Ŭ		011		,,,	.,,	Ŭ	17.17
			0.044			0.000			0.010			0.007		0.055
	PEAK HR FACTOR:		0.811			0.000			0.863			0.936		0.955

Intersection Turning Movement

National Data & Surveying Services

Project ID: 16-8004-004 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 S Kihei Rd S Kihei Rd N Kihei Rd NS/EW Streets: N Kihei Rd NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS ST 0 SR 0 ET 1 WT 2 WR 0 TOTAL NB SB EB WB LANES: 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 72 65 67 66 74 64 78 61 69 76 60 54 45 39 42 44 47 40 41 21 42 29 32 26 91 102 82 116 103 104 98 106 116 119 104 102 89 101 90 119 91 109 123 123 111 112 94 48 36 38 43 51 53 43 68 27 52 36 48 452 450 450 498 478 485 477 478 467 497 443 415 0 0 0 0 0 0 0 0 0 0 0 1 0 131 110 112 115 108 99 90 110 99 91 0 0 0 WR 0 0.00% NL 806 64.27% NT 0 0.00% NR SL 448 0 35.73% #DIV/0! ST 0 #DIV/0! SR 0 #DIV/0! EL 0 0.00% TOTAL 5590 FR WT TOTAL VOLUMES : APPROACH %'s : 1279 70.20% PEAK HR START TIME : TOTAL PEAK HR VOL 0 172 0 0 421 428 445 1938

CONTROL : Signalized

Project ID: 16-8004-004 Day: Tuesday City: Kihei Date: 1/12/2016

City:	Kihei					AN	Л				Date: 1	1/12/2016	
NS/EW Streets:	9	Kihei Rd			S Kihei Rd		1	N Kihei Rd		1	N Kihei Rd		
	NO	ORTHBOUN	ID	S	OUTHBOU	ND		ASTBOUN)	V	VESTBOUND)	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	2	0	1	0	0	0	0	1	1	1	2	0	
6:00 AM	70	0	9	0	0	0	0	28	16	10	50	0	183
6:15 AM	61	0	33	0	0	0	0	52	20	8	70	0	244
6:30 AM	73	0	34	0	0	0	0	61	23	16	98	0	305
6:45 AM	89	0	38	0	0	0	0	57	33	16	107	0	340
7:00 AM	142	0	39	0	0	0	0	56	41	16	110	0	404
7:15 AM	104	0	47	0	0	0	0	93	51	19	129	0	443
7:30 AM	91	0	52	0	0	0	0	100	59	23	114	0	439
7:45 AM	73	0	41	0	0	0	0	88	57	32	117	0	408
8:00 AM	77	0	36	0	0	0	0	100	45	21	104	0	383
8:15 AM	70	0	28	0	0	0	0	81	57	22	79	0	337
8:30 AM	63	0	32	0	0	0	0	105	58	24	74	0	356
8:45 AM	64	0	32	0	0	0	0	90	53	11	64	0	314
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	977	0	421	0	0	0	0	911	513	218	1116	0	4156
APPROACH %'s:	69.89%	0.00%	30.11%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	63.97%	36.03%	16.34%	83.66%	0.00%	i I
PEAK HR START TIME :	700 A	M											TOTAL

	UTU	IRNS	
NB	SB	EB	WB
			0
			0
			0
			0
			0
			0
			0
			1
			0
			0
			0
			0
NB	SB	EB	WB
0	0	0	1
	1		

L	PEAK HR START TIME:	700	AM											TOTAL
	PEAK HR VOL:	410	0	179	0	0	0	0	337	208	90	470	0	1694
	PEAK HR FACTOR:		0.814			0.000			0.857			0.940		0.956

Project ID: City:		4				Ca						Tuesday 1/12/2016					
NS/EW Streets:	5	S Kihei Rd			S Kihei Rd		ļ	N Kihei Rd			N Kihei Rd						
	NO	ORTHBOU	ND.	5	SOUTHBOU	ND	E	ASTBOUN)	١	WESTBOUNI)	·		UT	TURNS	
LANES:	NL 2	NT 0	NR 1	SL 0	ST 0	SR 0	EL 0	ET 1	ER 1	WL 1	WT 2	WR 0	TOTAL	NB	SB	EB	WB
3:00 PM 3:15 PM	70 63	0	44 38	0	0	0	0	88 97	87 101	48 36	104 106	0	441 441	-			0
3:30 PM	65	0	41	0	Ō	0	0	78	88	37	130	0 0	439				0
3:45 PM 4:00 PM	65 71	0	43 43	0	0	0	0	114 101	119 90	42 51	109 111	0	492 467				0
4:15 PM 4:30 PM	64 77	0	39 41	0	0	0	0	101 98	109 109	53 43	113 106	0	479 474				0
4:45 PM	61	0	21	0	Ō	0	0	104	123	67	97	0	473				0
5:00 PM 5:15 PM	69 75	0	39 29	0	0	0	0	113 118	122 110	27 52	88 110	0	458 494				0
5:30 PM 5:45 PM	59 54	0	32 26	0	0	0	0	104 101	111 93	36 47	98 90	0	440 411				1 0
3.45 PW										**							
TOTAL VOLUMES : APPROACH %'s :	NL 793 64.52%	NT 0 0.00%	NR 436 35.48%	SL 0 #DIV/0!	ST 0 #DIV/0!	SR 0 #DIV/0!	EL 0 0.00%	ET 1217 49.09%	ER 1262 50.91%	WL 539 29.93%	WT 1262 70.07%	WR 0 0.00%	TOTAL 5509	NB 0	SB 0	EB 0	WB 1
PEAK HR START TIME :	345 F	PM											TOTAL				
PEAK HR VOL:	277	0	166	0	0	0	0	414	427	189	439	0	1912				
PEAK HR FACTOR:		0.939			0.000			0.902			0.946		0.972				

Project ID: 16-8004-004 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 ΔM

_						AN	Л						_					
NS/EW Streets:	S	Kihei Rd			S Kihei Rd			N Kihei Rd		1	N Kihei Rd							
	NO	ORTHBOUN	ID	9	SOUTHBOU	ND		EASTBOUNI	D	١	VESTBOUND)				UTI	JRNS	
LANES:	NL 2	NT 0	NR 1	SL 0	ST 0	SR 0	EL 0	ET 1	ER 1	WL 1	WT 2	WR 0	TOTAL	NB	1	SB	EB	WB
6:00 AM 6:15 AM	1	0	0	0	0	0	0	0	3	0	1	0	5					
6:30 AM	3	Ō	0	o	0	0	0	i	0	1	1	0	6					
6:45 AM 7:00 AM	0 1	0	1	0	0	0	0	1 3	0 1	2 1	0 2	0	4 9					
7:15 AM	2	0	0	0	0	0	0	2	1	0	2	0	7					
7:30 AM	1	0	0	0	0	0	0	0	2	1	0	0	4					
7:45 AM 8:00 AM	0	0	1	0	0	0	0	0	0	0	2	0	5					
8:15 AM	Ö	0	- 1	0	0	0	0	0	1	0	2	0	4					
8:30 AM	1	0	1	0	0	0	0	3	1	2	4	0	12					
8:45 AM	1	0	1	0	0	0	0	2	2	3	1	0	10					
TOTAL VOLUMES : APPROACH %'s :	NL 12 66.67%	NT 0 0.00%	NR 6 33.33%	SL 0 #DIV/0!	ST 0 #DIV/0!	SR 0 #DIV/0!	EL 0 0.00%	ET 15 57.69%	ER 11 42.31%	WL 11 39.29%	WT 17 60.71%	WR 0 0.00%	TOTAL 72	NB 0		SB 0	EB 0	WB 0
PEAK HR START TIME :	700 A	AM											TOTAL					
PEAK HR VOL:	4	0	1	0	0	0	0	7	4	3	6	0	25					

CONTROL : Signalized

Project ID: 16-8004-004 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 PM

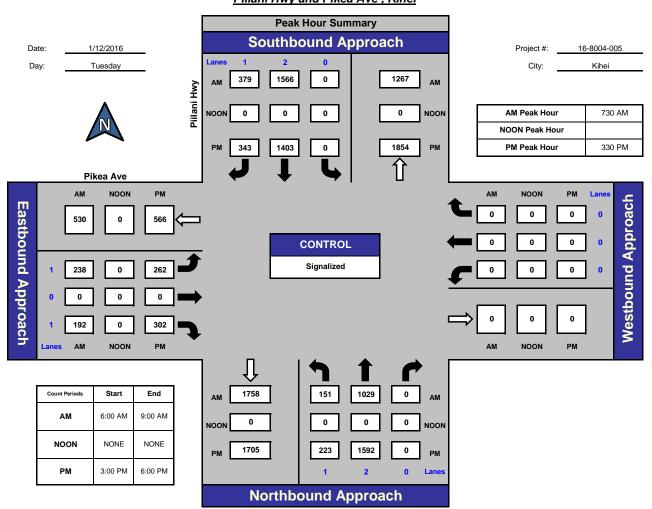
							PN	VI .						-				
	NS/EW Streets:	5	Kihei Rd			S Kihei Rd			N Kihei Rd			N Kihei Rd						
		NO	ORTHBOU	ND		SOUTHBOU	ND		EASTBOUNI	D	١	WESTBOUNI	D			UT	URNS	
	LANES:	NL 2	NT 0	NR 1	SL 0	ST 0	SR 0	EL 0	ET 1	ER 1	WL 1	WT 2	WR 0	TOTAL	NB	SB	EB	WB
	3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	2 2 2 1 3 0 1 0 0 1	0 0 0 0 0 0 0	1 1 1 1 4 1 0 0 0 3 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	3 5 4 2 2 3 0 2 3 1	2 0 2 0 1 0 0 0 0 1 1	0 0 1 1 1 0 0 0 0 1 1 0	3 1 1 1 1 2 2 2 2 2 0 1	0 0 0 0 0 0 0	11 9 11 6 11 6 3 5 9 3				
	5:45 PM TOTAL VOLUMES : APPROACH %'s :	0 NL 13 52.00%	0 NT 0 0.00%	0 NR 12 48.00%	0 SL 0 s #DIV/0!	0 ST 0 #DIV/0!	SR 0 #DIV/0!	0 EL 0 0.00%	1 ET 26 74.29%	ER 9 25.71%	WL 4 19.05%	WT 17 80.95%	0 WR 0 0.00%	TOTAL 81	NB 0	SB 0	EB 0	WB 0
PE#	PEAK HR VOL:	345 F	PM 0	6	0	0	0	0	7	1	1	6	0	TOTAL 26				

CONTROL : Signalized

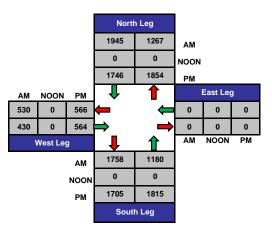
ITM Peak Hour Summary



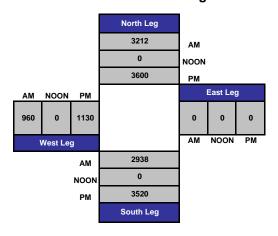
Piilani Hwy and Pikea Ave , Kihei







Total Volume Per Leg



Intersection Turning Movement

National Data & Surveying Services

Project ID: 16-8004-005 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 NS/EW Streets: Piilani Hwy Piilani Hwy Pikea Ave Pikea Ave NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS ST 2 SR 1 ET 0 WT 0 WR 0 TOTAL NB SB EB WB SL 0 LANES: 6:00 AM 6:15 AM 6:30 AM 6:45 AM 7:00 AM 7:15 AM 7:30 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM 100 136 194 197 247 277 267 246 267 249 241 210 31 46 45 60 60 62 104 94 95 86 62 82 292 406 596 625 739 813 906 950 852 847 787 735 4 12 10 14 16 21 30 37 44 40 42 39 116 165 280 269 333 366 407 452 343 364 346 301 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 23 30 35 47 33 48 61 76 53 48 52 56 18 17 32 38 50 39 37 45 50 60 44 47 0 0 0 NL 309 10.51% SL 0 0.00% ET 0 0.00% ER 477 45.91% WL 0 #DIV/0! WT 0 #DIV/0! WR 0 #DIV/0! TOTAL 8548 NT NR TOTAL VOLUMES : APPROACH %'s : PEAK HR START TIME : PEAK HR VOL 1029 0 0 1566 238 0 192 0 3555 PEAK HR FACTOR 0.949

Intersection Turning Movement

National Data & Surveying Services

Project ID: 16-8004-005 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 Piilani Hwy Piilani Hwy Pikea Ave Pikea Ave NS/EW Streets: NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS NR 0 ST 2 SR 1 ET 0 WT 0 WR 0 TOTAL NB SB EB WB NT 2 LANES: 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 46 52 54 55 56 58 66 66 61 58 51 385 421 423 351 392 426 395 352 330 302 276 234 348 348 334 382 347 340 328 331 317 333 292 283 91 81 83 91 95 74 103 108 92 90 85 76 992 1035 1037 1004 1040 1044 1023 992 929 929 846 762 0 0 0 0 0 0 0 0 0 0 50 58 79 72 76 75 61 68 73 78 82 57 0 72 75 64 53 74 71 70 67 56 68 60 61 0 0 0 0 0 0 0 0 WR 0 #DIV/0! NR 0 0.00% SL 0 0.00% ET 0 0.00% ER 829 51.17% WL 0 #DIV/0! TOTAL 11633 NT SR WT TOTAL VOLUMES : APPROACH %'s : 0 #DIV/0! PEAK HR START TIME : TOTAL PEAK HR VOL 1592 0 1403 262 0 302 0 4125 PEAK HR FACTOR

Project ID: City:		05				Ca A						Tuesday 1/12/2016					
NS/EW Streets:	1	Piilani Hwy		í	Piilani Hwy		1	Pikea Ave			Pikea Ave						
	N	ORTHBOUN	ID	S	OUTHBOUN	ID	E	ASTBOUN	D		WESTBOUN	ND.			U	TURNS	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
LANES:	1	2	0	0	2	1	1	0	1	0	0	0					
6:00 AM	3	98	0	0	112	30	23	0	18	0	0	0	284				
6:15 AM	12	128	0	0	157	45	30	0	16	0	0	0	388				
6:30 AM	10	190	0	0	276	44	35	0	32	0	0	0	587				
6:45 AM	14	191	0	0	257	59	45	0	38	0	0	0	604				
7:00 AM	15	242	0	0	325	60	33	0	49	0	0	0	724				
7:15 AM	21	276	0	0	352	60	47	0	38	0	0	0	794				
7:30 AM	29	262	0	0	402	100	59	0	37	0	0	0	889				
7:45 AM	37	244	0	0	445	91	74	0	45	0	0	0	936				
8:00 AM	44	262	0	0	334	95	53	0	50	0	0	0	838				
8:15 AM	39	239	0	0	356	82	48	0	58	0	0	0	822				
8:30 AM	42	233	0	0	335	61	52	0	43	0	0	0	766				
8:45 AM	39	202	0	0	290	79	55	0	45	0	0	0	710				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	305	2567	0	0	3641	806	554	0	469	0	0	0	8342	0	0	0	0
APPROACH %'s :	10.62%	89.38%	0.00%	0.00%	81.88%	18.12%	54.15%	0.00%	45.85%	#DIV/0!	#DIV/0!	#DIV/0!	l				l
PEAK HR START TIME :	730	AM											TOTAL				
PEAK HR VOL:	149	1007	0	0	1537	368	234	0	190	0	0	0	3485				
PEAK HR FACTOR:		0.944			0.889			0.891			0.000		0.931				

Project ID: City:		05				Ca Pi						Tuesday 1/12/2016					
NS/EW Streets:		Piilani Hwy		1	Piilani Hwy			Pikea Ave			Pikea Ave						
	N	ORTHBOUN	ID	S	OUTHBOUN	ID	E	ASTBOUNI	D		WESTBOUN	ND		-	UT	URNS	
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER 1	WL 0	WT 0	WR 0	TOTAL	NB	SB	EB	WB
3:00 PM 3:15 PM	46 52	372 410	0	0	340 333	90 81	70 75	0	50 58	0	0	0	968 1009				
3:30 PM 3:45 PM	54 54	419 345	0	0	327 376	82 90	63 52	0	79 72	0	0	0	1024 989				
4:00 PM 4:15 PM	56 57	383 422	0	0	346 335	93 74	74 70	0	76 74	0	0	0	1028 1032				
4:30 PM 4:45 PM	65 66	389 348	0	0	327 330	103 107	69 65	0	61 68	0	0	0	1014 984				
5:00 PM 5:15 PM	61 58	329 297	0	0	313 332	91 90	55 67	0	73 77	0	0	0	922 921				
5:30 PM 5:45 PM	51 51	272 231	0	0	291 278	85 74	60 61	0	82 57	0	0	0	841 752				
5.45 FW			·								-				1	1	
TOTAL VOLUMES : APPROACH %'s :	NL 671 13.73%	NT 4217 86.27%	NR 0 0.00%	SL 0 0.00%	ST 3928 78.75%	SR 1060 21.25%	EL 781 48.57%	ET 0 0.00%	ER 827 51.43%	WL 0 #DIV/0!	WT 0 #DIV/0!	WR 0 #DIV/0!	TOTAL 11484	NB 0	SB 0	EB 0	WB 0
EAK HR START TIME :	330	PM											TOTAL				
PEAK HR VOL:	221	1569	0	0	1384	339	259	0	301	0	0	0	4073				
DEAK HD FACTOR .		0.034			0.024			0.033			0.000		0.087				

UTURNS

EB

WB

SB

Project ID: 16-8004-005 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 AM

						^	IVI								
NS/EW Streets:	i i	Piilani Hwy		ı	Piilani Hwy		-	Pikea Ave			Pikea Ave				
-	N	ORTHBOU	ND	S	OUTHBOUN	ID	E	ASTBOUN)		WESTBOUN	ND		-	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL		NB
LANES:	1	2	0	0	2	1	1	0	1	0	0	0			
6:00 AM	1	2	0	0	4	1	0	0	0	0	0	0	8	-	
6:15 AM	0	8	0	0	8	1	0	0	1	0	0	0	18		
6:30 AM	0	4	0	0	4	1	0	0	0	0	0	0	9		
6:45 AM	0	6	0	0	12	1	2	0	0	0	0	0	21		
7:00 AM	1	5	0	0	8	0	0	0	1	0	0	0	15		
7:15 AM	0	1	0	0	14	2	1	0	1	0	0	0	19		
7:30 AM	1	5	0	0	5	4	2	0	0	0	0	0	17		
7:45 AM	0	2	0	0	7	3	2	0	0	0	0	0	14		
8:00 AM	0	5	0	0	9	0	0	0	0	0	0	0	14		
8:15 AM	1	10	0	0	8	4	0	0	2	0	0	0	25		
8:30 AM	0	8	0	0	11	1	0	0	1	0	0	0	21		
8:45 AM	0	8	0	0	11	3	1	0	2	0	0	0	25		
-	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	Ī	NB
TOTAL VOLUMES :	4	64	0	0	101	21	8	0	8	0	0	0	206		0
APPROACH %'s :	5.88%	94.12%	0.00%	0.00%	82.79%	17.21%	50.00%	0.00%	50.00%	#DIV/0!	#DIV/0!	#DIV/0!	l l	ļ	
PEAK HR START TIME :	730	AM											TOTAL		

PEAK HR START TIME :	730) AM											TOTAL
PEAK HR VOL:	2	22	0	0	29	11	4	0	2	0	0	0	70
PEAK HR FACTOR:		0.545			0.833			0.750			0.000		0.931

Project ID: 16-8004-005 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016

_						PI	М						_					
NS/EW Streets:		Piilani Hwy			Piilani Hwy		ı	Pikea Ave			Pikea Ave							
	N	IORTHBOUN	D	S	OUTHBOUN	D	Е	ASTBOUN	D		WESTBOUN	ID		•		UTI	JRNS	
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER 1	WL 0	WT 0	WR 0	TOTAL		NB	SB	EB	WB
3:00 PM	0	13	0	0	8	1	2	0	0	0	0	0	24	-				
3:15 PM 3:30 PM	0	11 4	0	0	15 7	0	0 1	0	0	0	0	0	26 13					
3:45 PM	1	6	0	0	6	1	1	0	0	0	0	0	15					
4:00 PM 4:15 PM	0 1	4	0	0	1 5	0	0 1	0	0 1	0	0	0	12 12					
4:30 PM	1	6	0	0	1	0	1	0	0	0	0	0	9					
4:45 PM 5:00 PM	0	1	0	0	4	1	1	0	0	0	0	0	8 7					
5:15 PM 5:30 PM	0	5	0	0	1	0	1 0	0	1	0	0	0	8					
5:45 PM	0	3	0	0	5	2	0	0	0	0	0	0	10					
TOTAL VOLUMES : APPROACH %'s :	NL 3 4.11%	NT 70 95.89%	NR 0 0.00%	SL 0 0.00%	ST 55 85.94%	SR 9 14.06%	EL 10 83.33%	ET 0 0.00%	ER 2 16.67%	WL 0 #DIV/0!	WT 0 #DIV/0!	WR 0 #DIV/0!	TOTAL 149		NB 0	SB 0	EB 0	WB 0
AK HR START TIME :	330	PM											TOTAL					
PEAK HR VOL:	2	23	0	0	19	4	3	0	1	0	0	0	52					

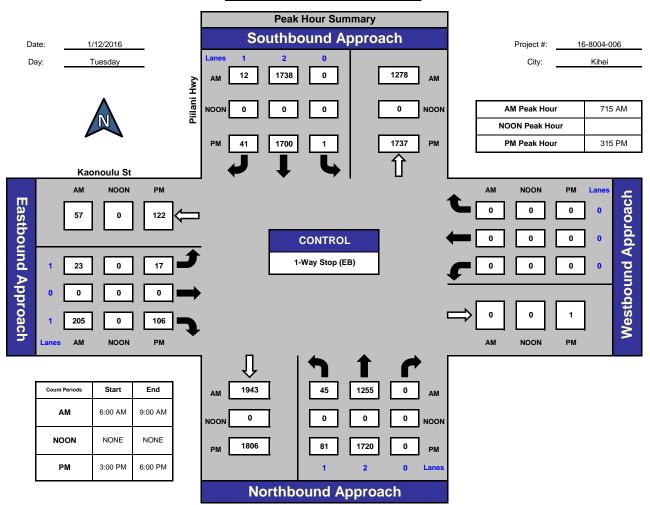
CONTROL : Signalized

ITM Peak Hour Summary

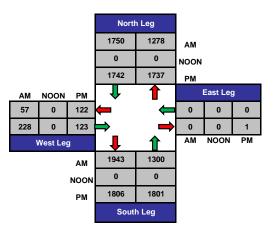


National Data & Surveying Services

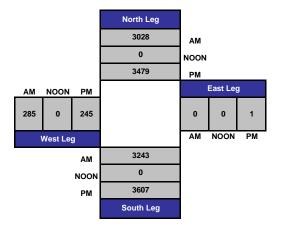
Piilani Hwy and Kaonoulu St, Kihei



Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-8004-006 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 Kaonoulu St NS/EW Streets: Piilani Hwy Piilani Hwy Kaonoulu St NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS SL 0 ST 2 WT 0 WR 0 TOTAL NB SB EB WB SR 1 LANES: 6:00 AM 6:15 AM 6:30 AM 6:45 AM 7:00 AM 7:15 AM 7:30 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM 123 165 213 242 284 312 318 322 303 280 284 256 140 200 314 273 357 386 476 463 413 372 374 343 279 397 581 567 697 773 867 861 777 712 716 644 0 0 0 0 0 0 0 0 0 10 15 30 28 38 48 56 57 44 35 28 26 0 0 0 0 0 0 0 0 0 7 7 12 9 14 9 13 9 15 13 0 0 0 SL 0 0.00% ET 0 0.00% ER 415 83.33% WL 0 #DIV/0! WT 0 #DIV/0! WR 0 #DIV/0! TOTAL 7871 EL 83 16.67% NT NR TOTAL VOLUMES : APPROACH %'s : PEAK HR START TIME : TOTAL PEAK HR VOL 1255 0 0 1738 23 0 205 0 3278

CONTROL: 1-Way Stop (EB)

Intersection Turning Movement

Prepared by: National Data & Surveying Services

Project ID: 16-8004-006 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 Piilani Hwy Kaonoulu St NS/EW Streets: Piilani Hwy Kaonoulu St NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS NR 0 ST 2 SR 1 ET 0 WT 0 WR 0 TOTAL NB SB EB WB NT 2 LANES: 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 26 20 21 15 25 18 30 30 40 23 33 20 397 458 468 394 400 438 441 368 317 338 287 273 826 955 906 910 895 882 945 832 832 800 766 662 373 427 381 465 427 395 430 387 441 400 396 326 0 1 0 0 0 0 0 0 0 0 0 7 10 9 11 11 5 12 11 15 9 18 14 16 36 21 22 27 23 28 33 17 28 27 26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 NR 0 0.00% SL 1 0.02% ET 0 0.00% ER 304 86.86% WL 0 #DIV/0! WR 0 #DIV/0! TOTAL 10211 NT SR WT TOTAL VOLUMES : APPROACH %'s : 4579 93.83% 0 #DIV/0! PEAK HR START TIME : TOTAL PEAK HR VOL 1720 0 1700 17 0 106 0 3666

CONTROL: 1-Way Stop (EB)

	Project ID:	16-8004-00)6									Day:	Tuesday					
	City: I	Kihei					Ca	rs				Date:	1/12/2016					
	_						ΑI	И										
	NS/EW Streets:	ı	Piilani Hwy		ı	Piilani Hwy		K	aonoulu St		1	Kaonoulu S	t					
	•	N	ORTHBOUN	ID	S	OUTHBOUN	ID	E	ASTBOUN	D		WESTBOUN	ND.			UT	URNS	
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
	LANES:	1	2	0	0	2	1	1	0	1	0	0	0					
•	6:00 AM	1	121	0	0	133	1	4	0	10	0	0	0	270				
	6:15 AM	7	158	0	0	193	4	6	0	15	0	0	0	383				
	6:30 AM	7	208		0	303	3	14	0	30	0	0	0	565				
	6:45 AM	12	236	0	0	263	1	11	0	27	0	0	0	550				
	7:00 AM	9	278	0	0	346	3	6	0	38	0	0	0	680				
	7:15 AM	14	307	0	0	374	5	8	0	47	0	0	0	755				
	7:30 AM	8	311	0	0	468	3	5	0	53	0	0	0	848				
	7:45 AM	13	316	0	0	454	0	6	0	57	0	0	0	846				
	8:00 AM	9	298	0	0	404	4	4	0	44	0	0	0	763				
	8:15 AM	15	273	0	0	363	4	5	0	34	0	0	0	694				
	8:30 AM	13	277	0	0	363	7	9	0	28	0	0	0	697				
	8:45 AM	10	248	0	0	332	6	3	0	25	0	0	0	624				
•		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
	TOTAL VOLUMES :	118	3031	0	0	3996	41	81	0	408	0	0	0	7675	0	0	0	0
	APPROACH %'s :	3.75%	96.25%	0.00%	0.00%	98.98%	1.02%	16.56%	0.00%	83.44%	#DIV/0!	#DIV/0!	#DIV/0!		l	l	Į	
ı	PEAK HR START TIME :	715 .	AM											TOTAL				
Ī																		
	PEAK HR VOL:	44	1232	0	0	1700	12	23	0	201	0	0	0	3212				
	PEAK HR FACTOR:		0.970			0.909			0.889			0.000		0.947				

CONTROL: 1-Way Stop (EB)

Project ID:		06				Ca P						Tuesday 1/12/2016	•					
NS/EW Streets:		Piilani Hwy			Piilani Hwy		K	aonoulu St			Kaonoulu S	t						
	١	ORTHBOUN	ID	S	OUTHBOUN	ID	E	ASTBOUNI)		WESTBOUN	ND			UTI	URNS		
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER 1	WL 0	WT 0	WR 0	TOTAL	NB	SB	EB	WB	
3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM	26 20 21 15 25 18 30 30 40 23 33 20	379 448 461 388 390 435 436 358 315 332 284 271	0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0	364 411 373 458 425 389 429 386 436 399 394 318	7 10 9 11 11 5 12 11 15 9 18	7 4 5 3 5 3 4 3 2 2 5 3	0 0 0 0 0 0 0	16 36 21 22 27 23 28 33 17 28 27 26	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	799 929 891 897 883 873 939 821 825 793 761 652		0 0 1 0 0 0 0 0 0			
TOTAL VOLUMES : APPROACH %'s :	NL 301 6.27%	NT 4497 93.73%	NR 0 0.00%	SL 1 0.02%	ST 4782 97.29%	SR 132 2.69%	EL 46 13.14%	ET 0 0.00%	ER 304 86.86%	WL 0 #DIV/0!	WT 0 #DIV/0!	WR 0 #DIV/0!	TOTAL 10063	NB 0	SB 1	EB 0	WB 0	
PEAK HR START TIME : PEAK HR VOL :	315 81	PM 1687	0	1	1667	41	17	0	106	0	0	0	TOTAL 3600					

CONTROL: 1-Way Stop (EB)

0.911

Project ID: 16-8004-006 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016

_						Α	M						_				
NS/EW Streets:		Piilani Hwy			Piilani Hwy		K	aonoulu St		-	Kaonoulu S	t					
	N	ORTHBOUN	ID	:	SOUTHBOUNI	D	E	ASTBOUN	D		WESTBOUN	ND	•		UTI	JRNS	
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER 1	WL 0	WT 0	WR 0	TOTAL	NB	SB	EB	WB
6:00 AM	0	2	0	0	7	0	0	0	0	0	0	0	9	-			
6:15 AM	0	7	0	0	7	0	0	0	0	0	0	0	14				
6:30 AM 6:45 AM	0	5	0	0	11	0	U	0	0	0	0	0	16				
7:00 AM	0	6	0	0	10 11	0	0	0	1	0	0	0	17 17				
7:15 AM	0	6	0	0	12	0	0	0	1	0	0	0	18				
7:30 AM	1	7	0	0	8	0	0	0	3	0	0	0	19				
7:45 AM	ò	6	Ö	0	9	ň	Ô	0	n	n	Ô	0	15				
8:00 AM	Ö	5	Ö	0	ó	n	Ô	0	0	0	0	Ö	14				
8:15 AM	Ō	7	ō	ō	9	ō	i	ō	i	ō	ō	ō	18				
8:30 AM	0	7	0	0	11	0	1	0	0	0	0	0	19				
8:45 AM	0	8	0	0	11	0	0	0	1	0	0	0	20				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES : APPROACH %'s :	1 1.39%	71 98.61%	0 0.00%	0 0.00%	115 100.00%	0 0.00%	2 22.22%	0 0.00%	7 77.78%	0 #DIV/0!	0 #DIV/0!	0 #DIV/0!	196	0	0	0	0
EAK HR START TIME :	715	AM											TOTAL				
PEAK HR VOL :	1	23	0 I	0	38	o I	0	0	4	0	0	0	66				

CONTROL: 1-Way Stop (EB)

Project ID: 16-8004-006 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 РМ

						P	M						
NS/EW Streets:		Piilani Hwy			Piilani Hwy		-	Kaonoulu S		-	Kaonoulu S	t	
	N	IORTHBOUN	D	S	OUTHBOUN	D		EASTBOUN	D	,	WESTBOUN	ID	
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER 1	WL 0	WT 0	WR 0	TOTA
3:00 PM	0	18	0	0	9	0	0	0	0	0	0	0	27
3:15 PM	0	10	0	0	16	0	0	0	0	0	0	0	26
3:30 PM	0	7	0	0	8	0	0	0	0	0	0	0	15
3:45 PM	0	6	0	0	7	0	0	0	0	0	0	0	13
4:00 PM	0	10	0	0	2	0	0	0	0	0	0	0	12
4:15 PM	0	3	0	0	6	0	0	0	0	0	0	0	9
4:30 PM	0	5	0	0	1	0	0	0	0	0	0	0	6
4:45 PM	0	10	0	0	1	0	0	0	0	0	0	0	11
5:00 PM	0	2	0	0	5	0	0	0	0	0	0	0	7
5:15 PM	0	6	0	0	1	0	0	0	0	0	0	0	7
5:30 PM	0	3	0	0	2	0	0	0	0	0	0	0	5
5:45 PM	0	2	0	0	8	0	0	0	0	0	0	0	10
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTA
TOTAL VOLUMES:	0	82	0	0	66	0	0	0	0	0	0	0	148
APPROACH %'s:	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
CHR START TIME :	315	PM											TOTA

NB 0	SB 0	EB 0	WB 0	

UTURNS

EB

WB

SB

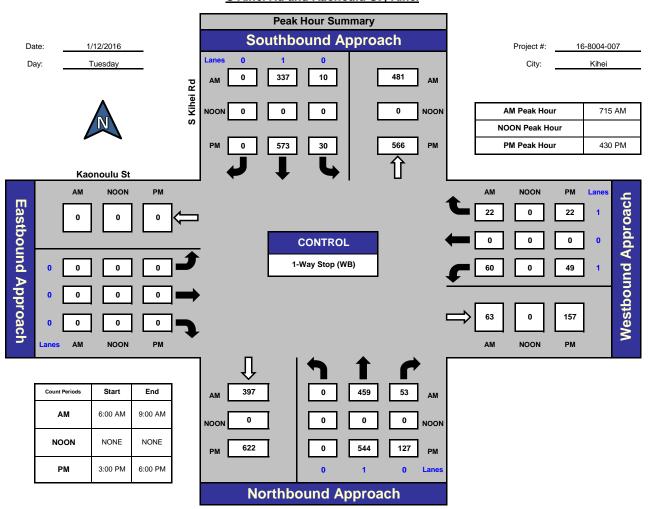
NB

PEAK HR START TIME :	315	5 PM											TOTAL	
PEAK HR VOL:	0	33	0	0	33	0	0	0	0	0	0	0	66	
PEAK HR FACTOR:		0.825			0.516			0.000			0.000		0.969	

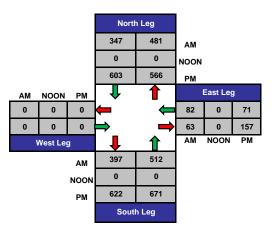
ITM Peak Hour Summary



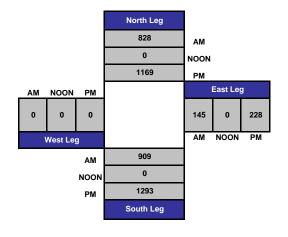
S Kihei Rd and Kaonoulu St, Kihei







Total Volume Per Leg



Project ID: 16-8004-007 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016

NS/EW Streets:					S Kihei Rd		1	Kaonoulu S	t	Ka	aonoulu St		
	N	ORTHBOUN	D	S	OUTHBOUN	D		EASTBOUN	D	W	/ESTBOUN	D	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	0	0	0	0	1	0	1	
6:00 AM	0	51	1	4	16	0	0	0	0	4	0	5	81
6:15 AM	0	72	2	1	32	0	0	0	0	2	0	6	115
6:30 AM	0	91	4	4	38	0	0	0	0	7	0	6	150
6:45 AM	0	112	7	2	47	0	0	0	0	9	0	13	190
7:00 AM	0	112	2	4	54	0	0	0	0	10	0	11	193
7:15 AM	0	130	9	5	71	0	0	0	0	16	0	5	236
7:30 AM	0	111	15	1	74	0	0	0	0	21	0	7	229
7:45 AM	0	122	13	4	102	0	0	0	0	11	0	4	256
8:00 AM	0	96	16	0	90	0	0	0	0	12	0	6	220
8:15 AM	0	110	16	1	87	0	0	0	0	14	0	6	234
8:30 AM	0	105	10	2	79	0	0	0	0	18	0	5	219
8:45 AM	0	101	11	3	87	0	0	0	0	18	0	2	222
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTA
TOTAL VOLUMES :	0	1213	106	31	777	0	0	0	0	142	0	76	2345
APPROACH %'s :	0.00%	91.96%	8.04%	3.84%	96.16%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	65.14%	0.00%	34.86%	

		UTL	IRNS	
	NB	SB	EB	WB
		0		0
		0		0
		0		0
		0		0
		0		0
		1		0
		0		1
		0		0
		0		0
		0		0
		0		0
		0		0
1	NB	SB	EB	WB
	0	1	0	1

PEAK HR START TIME :	71	5 AM											TOTAL
PEAK HR VOL:	0	459	53	10	337	0	0	0	0	60	0	22	941
PEAK HR FACTOR:		0.921			0.818			0.000			0.732		0.919

Intersection Turning Movement

Prepared by: National Data & Surveying Services

Project ID: 16-8004-007 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 S Kihei Rd S Kihei Rd Kaonoulu St NS/EW Streets: Kaonoulu St NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS NR 0 ST 1 SR 0 WT 0 WR 1 TOTAL NB SB EB WB LANES: 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 130 137 133 134 139 127 152 116 137 139 118 132 34 27 20 32 20 31 26 28 35 38 26 25 324 318 287 346 324 308 338 341 338 328 300 282 129 136 109 143 134 129 143 169 138 123 124 104 0 0 0 0 0 0 0 0 0 0 12 8 16 26 16 13 8 16 12 13 14 12 0 0 0 0 0 0 0 0 0 0 NT 1594 82.33% EL 0 #DIV/0! ET 0 #DIV/0! ER 0 #DIV/0! WR 64 27.83% NL 0 0.00% SR 0 0.00% TOTAL 3834 NR WI WT TOTAL VOLUMES : APPROACH %'s : 0 PEAK HR START TIME : TOTAL PEAK HR VOL 544 127 30 573 0 0 22 1345 PEAK HR FACTOR

EB

WB

Project ID: 1		17					ars M					Tuesday 1/12/2016					
NS/EW Streets:	:	S Kihei Rd		:	S Kihei Rd		1	Kaonoulu S	t	K	aonoulu St						
	N	ORTHBOUN	ID	S	OUTHBOUN	D		EASTBOUN	ID	V	/ESTBOUN	D		-		UT	URNS
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 0	ER 0	WL 1	WT 0	WR 1	TOTAL		NB	SB	E
6:00 AM	0	49	1	4	15	0	0	0	0	4	0	5	78	-		0	
6:15 AM	0	70	2	1	31	0	0	0	0	2	0	6	112			0	
6:30 AM	0	89	2	3	38	0	0	0	0	7	0	6	145			0	
6:45 AM	0	110	7	2	46	0	0	0	0	9	0	13	187			0	
7:00 AM	0	110	2	4	54	0	0	0	0	10	0	11	191			0	
7:15 AM	0	129	9	5	70	0	0	0	0	16	0	5	234			1	
7:30 AM	0	109	15		74	0	0	0	0	20	0	′.	226			0	
7:45 AM	0	120	13	4	101	0	0	0	0	11	0	4	253			0	
8:00 AM	0	95	16	0	88	0	0	0	0	12	0	6	217			0	
8:15 AM	0	109	16	1	86	0	0	0	0	14	0	6	232			0	
8:30 AM	0	102	10	2	77	0	0	0	0	18	0	5	214			0	
8:45 AM	0	97	11	3	82	0	0	0	0	18	0	2	213			0	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	Ī	NB	SB	E
TOTAL VOLUMES :	0	1189	104	30	762	0	0	0	0	141	0	76	2302		0	1	(
APPROACH %'s :	0.00%	91.96%	8.04%	3.79%	96.21%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	64.98%	0.00%	35.02%	J	ļ		Ī	I
K HR START TIME :	715	AM											TOTAL				
PEAK HR VOL:	0	453	53	10	333	0	0	0	0	59	0	22	930				

CONTROL: 1-Way Stop (WB)

Project ID: City:)7					ars M					Tuesday 1/12/2016					
NS/EW Streets:		S Kihei Rd			S Kihei Rd		1	Kaonoulu S	t	K	aonoulu St						
	N	ORTHBOU	ND	S	OUTHBOUN	D	1	EASTBOUN	ID	١	VESTBOUN	D		-	UT	URNS	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
LANES:	0	1	0	0	1	0	0	0	0	1	0	1					
3:00 PM	0	126	34	11	128	0	0	0	0	12	0	8	319				
3:15 PM	0	136	27	6	134	0	0	0	0	7	0	4	314				
3:30 PM	0	130	20	7	109	0	0	0	0	16	0	2	284				
3:45 PM	0	132	32	5	142	0	0	0	0	25	0	6	342				
4:00 PM	0	135	19	6	132	0	0	0	0	16	0	8	316				
4:15 PM	0	126	31	7	128	0	0	0	0	13	0	1	306				
4:30 PM	0	151	26	3	143	0	0	0	0	8	0	6	337				
4:45 PM	0	115	28	8	169	0	0	0	0	16	0	4	340				
5:00 PM	0	136	34	8	137	0	0	0	0	12	0	8	335				
5:15 PM	0	138	38	11	121	0	0	0	0	13	0	4	325				
5:30 PM	0	117	26	12	123	0	0	0	0	14	0	6	298				
5:45 PM	0	131	25	3	103	0	0	0	0	12	0	6	280				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	0	1573	340	87	1569	0	0	0	0	164	0	63	3796	0	0	0	0
APPROACH %'s :	0.00%	82.23%	17.77%	5.25%	94.75%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	72.25%	0.00%	27.75%	ı	I	1	I	1 1
PEAK HR START TIME :	430	PM											TOTAL				
PEAK HR VOL:	0	540	126	30	570	0	0	0	0	49	0	22	1337				
PEAK HR FACTOR:		0.941			0.847			0.000			0.888		0.983				

EB

WB

Project ID: 16-8004-007 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 AM

_						A	M						_				
NS/EW Streets:		S Kihei Rd			S Kihei Rd			Kaonoulu S	t	К	aonoulu St						
	N	ORTHBOUN	ID	S	OUTHBOUN	D		EASTBOUN	ID	V	VESTBOUND)		•		UT	TURNS
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 0	ER 0	WL 1	WT 0	WR	TOTAL		NB	SB	EB
6:00 AM	0	2	0	0	1	0	0	0	0	0	0	0	3	-			
6:15 AM	0	2	0	0	1	0	0	0	0	0	0	0	3				
6:30 AM	0	2	2	1	0	0	0	0	0	0	0	0	5				
6:45 AM	0	2	0	0	1	0	0	0	0	0	0	0	3				
7:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	2				
7:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	2				
7:30 AM	0	2	0	0	0	0	0	0	0	1	0	0	3				
7:45 AM	0	2	0	0	1	0	0	0	0	0	0	0	3				
8:00 AM	0	1	0	0	2	0	0	0	0	0	0	0	3				
8:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	2				
8:30 AM	0	3	0	0	2	0	0	0	0	0	0	0	5				
8:45 AM	0	4	0	0	5	0	0	0	0	0	0	0	9				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	Ī	NB	SB	EB
TOTAL VOLUMES:	0	24	2	1	15	0	0	0	0	1	0	0	43		0	0	0
APPROACH %'s :	0.00%	92.31%	7.69%	6.25%	93.75%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	100.00%	0.00%	0.00%			ı	l	ı
AK HR START TIME :	715	AM											TOTAL				
		,															

TEARTIN START TIME .		J AIVI											IOIAL	
PEAK HR VOL:	0	6	0	0	4	0	0	0	0	1	0	0	11	
PEAK HR FACTOR:		0.750			0.500			0.000			0.250		0.919	l

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

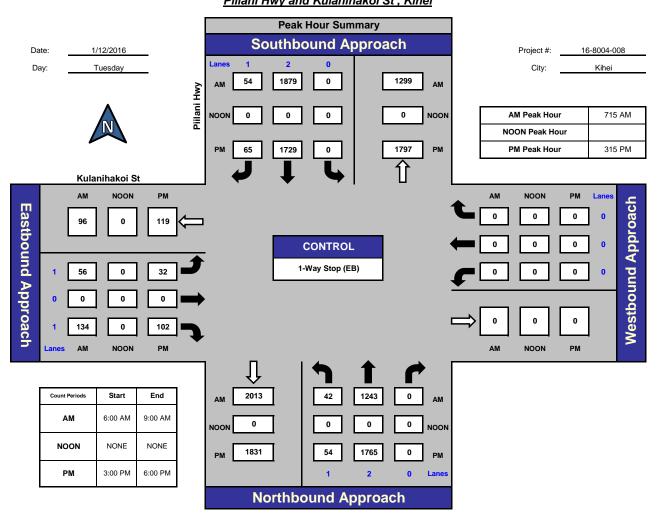
Project ID: 16-8004-007 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 NS/EW Streets: S Kihei Rd S Kihei Rd Kaonoulu St Kaonoulu St NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS NT 1 NR 0 ST 1 SR 0 WT 0 WR 1 TOTAL NB SB EB WB LANES: 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 0 NT 21 91.30% NR 2 8.70% SL ST 0 12 0.00% 100.00% EL 0 #DIV/0! ET 0 #DIV/0! ER 0 #DIV/0! WL 2 66.67% SR 0 0.00% TOTAL 38 WT WR TOTAL VOLUMES : APPROACH %'s : 0 0.00% PEAK HR START TIME : TOTAL PEAK HR VOL 0 3 0 0 8

CONTROL: 1-Way Stop (WB)

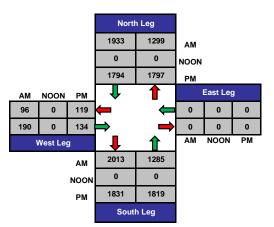
ITM Peak Hour Summary



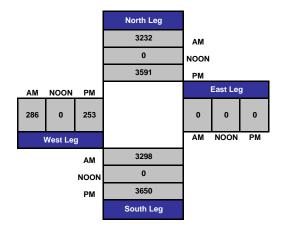
Piilani Hwy and Kulanihakoi St , Kihei







Total Volume Per Leg



UTURNS

EB

WB

SB

NB

Project ID: 16-8004-008 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 AM

NS/EW Streets:	Piilani Hwy NORTHBOUND			í	Piilani Hwy		Ku	lanihakoi S	t	K	ulanihakoi :	St	
,	N	ORTHBOUN	D	S	OUTHBOUN	D	E	ASTBOUN)		WESTBOUN	1D	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	0	2	1	1	0	1	0	0	0	
6:00 AM	2	126	0	0	152	0	6	0	7	0	0	0	293
6:15 AM	2	153	0	0	213	1	13	0	11	0	0	0	393
6:30 AM	4	204	0	0	301	2	13	0	11	0	0	0	535
6:45 AM	5	230	0	0	333	4	15	0	19	0	0	0	606
7:00 AM	3	280	0	0	377	6	19	0	26	0	0	0	711
7:15 AM	4	321	0	0	434	7	10	0	24	0	0	0	800
7:30 AM	7	314	0	0	521	5	14	0	29	0	0	0	890
7:45 AM	10	310	0	0	508	20	17	0	35	0	0	0	900
8:00 AM	21	298	0	0	416	22	15	0	46	0	0	0	818
8:15 AM	12	281	0	0	422	15	15	0	39	0	0	0	784
8:30 AM	10	292	0	0	384	11	12	0	26	0	0	0	735
8:45 AM	4	255	0	0	356	15	10	0	33	0	0	0	673
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	84	3064	0	0	4417	108	159	0	306	0	0	0	8138
APPROACH %'s :	2.67%	97.33%	0.00%	0.00%	97.61%	2.39%	34.19%	0.00%	65.81%	#DIV/0!	#DIV/0!	#DIV/0!	l

PEAK HR START TIME :	715	5 AM											TOTAL
PEAK HR VOL:	42	1243	0	0	1879	54	56	0	134	0	0	0	3408
PEAK HR FACTOR:		0.988			0.915			0.779			0.000		0.947

UTURNS

EB

WB

SB

NB

Project ID: 16-8004-008 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016

NS/EW Streets:	Piilani Hwy NORTHBOUND			F	Piilani Hwy		Ku	lanihakoi S	t	K	ulanihakoi S	St	
,	N	ORTHBOUN	D	S	OUTHBOUN	D	E	ASTBOUN)		WESTBOUN	ID.	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	0	2	1	1	0	1	0	0	0	
3:00 PM	19	421	0	0	393	15	8	0	31	0	0	0	887
3:15 PM	14	458	0	0	433	13	11	0	24	0	0	0	953
3:30 PM	9	489	0	0	378	16	7	0	25	0	0	0	924
3:45 PM	14	398	0	0	463	21	6	0	30	0	0	0	932
4:00 PM	17	420	0	0	455	15	8	0	23	0	0	0	938
4:15 PM	17	440	0	0	405	24	14	0	16	0	0	0	916
4:30 PM	22	461	0	0	423	14	4	0	28	0	0	0	952
4:45 PM	20	395	0	0	404	18	6	0	22	0	0	0	865
5:00 PM	16	353	0	0	426	18	10	0	10	0	0	0	833
5:15 PM	18	363	0	0	419	23	5	0	12	0	0	0	840
5:30 PM	10	315	0	0	395	22	8	0	16	0	0	0	766
5:45 PM	14	277	0	0	347	18	11	0	24	0	0	0	691
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTA
TOTAL VOLUMES:	190	4790	0	0	4941	217	98	0	261	0	0	0	10497
APPROACH %'s:	3.82%	96.18%	0.00%	0.00%	95.79%	4.21%	27.30%	0.00%	72.70%	#DIV/0!	#DIV/0!	#DIV/0!	

I	PEAK HR START TIME:	315	5 PM											TOTAL
	PEAK HR VOL:	54	1765	0	0	1729	65	32	0	102	0	0	0	3747
	PEAK HR FACTOR:		0.913			0.927			0.931			0.000		0.983

Project ID:		18				Ca	rs					Tuesday 1/12/2016					
ony.	Kilici					Al	M				Date.	1/12/2010					
NS/EW Streets:	ı	Piilani Hwy		F	Piilani Hwy			ılanihakoi S	t	K	ulanihakoi :	St					
	N	ORTHBOUN	D	S	OUTHBOUN	D		ASTBOUND)		WESTBOUN	ID			UTI	URNS	
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER 1	WL 0	WT 0	WR 0	TOTAL	NB	SB	EB	WB
6:00 AM 6:15 AM 6:30 AM 6:45 AM 7:00 AM	2 2 4 5	125 144 200 224 273	0 0 0 0	0 0 0 0	146 205 292 322 367	0 1 2 3 6	6 12 13 15	0 0 0 0	7 11 11 19 26	0 0 0 0	0 0 0 0	0 0 0 0	286 375 522 588 694				
7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM	4 7 10 21 12 9 4	319 307 306 292 275 283 249	0 0 0 0 0 0	0 0 0 0 0 0	422 512 498 408 410 371 344	6 3 20 22 15 11	10 13 17 15 15 12 10	0 0 0 0 0	21 28 35 46 39 26 33	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	782 870 886 804 766 712 655				
TOTAL VOLUMES : APPROACH %'S :	NL 83 2.69%	NT 2997 97.31%	NR 0 0.00%	SL 0 0.00%	ST 4297 97.64%	SR 104 2.36%	EL 157 34.20%	ET 0 0.00%	ER 302 65.80%	WL 0 #DIV/0!	WT 0 #DIV/0!	WR 0 #DIV/0!	TOTAL 7940	NB 0	SB 0	EB 0	WB 0
PEAK HR START TIME :	715	AM											TOTAL				
PEAK HR VOL:	42	1224	0	0	1840	51	55	0	130	0	0	0	3342				
PEAK HR FACTOR:		0.980			0.913			0.758			0.000		0.943				

WB

Project ID: City:		08					ars					Tuesday 1/12/2016					
NS/EW Streets:		Piilani Hwy			Piilani Hwy		Ku	lanihakoi S	it	К	(ulanihakoi :	St					
	N	ORTHBOU	ND	S	OUTHBOUN	ID	E	ASTBOUN)		WESTBOUN	ID.	l			UTL	JRNS
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER 1	WL 0	WT 0	WR 0	TOTAL		NB	SB	EB
3:00 PM 3:15 PM	19 14	404 448	0	0	383 419	15 13	8 11	0	31 24	0	0	0	860 929	•	0		0
3:30 PM 3:45 PM	9 14	481 393	0	0	369 457	16 21	7 6	0	24 30	0	0	0	906 921		0		0
4:00 PM 4:15 PM	17 17	410 436	0	0	452 399	15 24	8 14	0	23 16	0	0	0	925 906		1		0
4:30 PM 4:45 PM	22 20	457 385	0	0	422 403	14 18	4	0	28 22	0	0	0	947 854		0		0
5:00 PM 5:15 PM	16 18	351 357	0	0	421 418	18 23	10 5	0	10	0	0	0	826 833		1		2
5:30 PM	10	311	Ō	Ō	394	22	8	0	12 16	ō	ō	Ō	761		0		0
5:45 PM	14	276	0	0	340	16	11	0	23	0	0	0	680	•	0		0
TOTAL VOLUMES : APPROACH %'s :	NL 190 3.88%	NT 4709 96.12%	NR 0 0.00%	SL 0 0.00%	ST 4877 95.78%	SR 215 4.22%	EL 98 27.45%	ET 0 0.00%	ER 259 72.55%	WL 0 #DIV/0!	WT 0 #DIV/0!	WR 0 #DIV/0!	TOTAL 10348		NB 3	SB 0	EB 2
PEAK HR START TIME :	315	PM											TOTAL				
PEAK HR VOL:	54	1732	0	0	1697	65	32	0	101	0	0	0	3681				

CONTROL : 1-Way Stop (EB)

Project ID: 16-8004-008 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 AM

_						Α	M						_		
NS/EW Streets:		Piilani Hwy		F	Piilani Hwy		Ku	lanihakoi S	it	К	ulanihakoi S	St			
	N	ORTHBOUN	ID	S	OUTHBOUN	D	E	ASTBOUN	D		WESTBOUN	ID		-	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL		NB
LANES:	1	2	0	0	2	1	1	0	1	0	0	0			
6:00 AM	0	1	0	0	6	0	0	0	0	0	0	0	7	-	
6:15 AM	0	9	0	0	8	0	1	0	0	0	0	0	18		
6:30 AM	0	4	0	0	9	0	0	0	0	0	0	0	13		
6:45 AM	0	6	0	0	11	1	0	0	0	0	0	0	18		
7:00 AM	0	7	0	0	10	0	0	0	0	0	0	0	17		
7:15 AM	0	2	0	0	12	1	0	0	3	0	0	0	18		
7:30 AM	0	7	0	0	9	2	1	0	1	0	0	0	20		
7:45 AM	0	4	0	0	10	0	0	0	0	0	0	0	14		
8:00 AM	0	6	0	0	8	0	0	0	0	0	0	0	14		
8:15 AM	0	6	0	0	12	0	0	0	0	0	0	0	18		
8:30 AM	1	9	0	0	13	0	0	0	0	0	0	0	23		
8:45 AM	0	6	0	0	12	0	0	0	0	0	0	0	18		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	Γ	NB
TOTAL VOLUMES:	1	67	0	0	120	4	2	0	4	0	0	0	198		0
APPROACH %'s :	1.47%	98.53%	0.00%	0.00%	96.77%	3.23%	33.33%	0.00%	66.67%	#DIV/0!	#DIV/0!	#DIV/0!		ļ	
AK HR START TIME :	715	AM											TOTAL		
		40													

NB	SB	EB	WB
0	0	0	0

UTURNS

EB

WB

SB

CONTROL: 1-Way Stop (EB)

UTURNS SB

EB

WB

Project ID: 16-8004-008 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016

<u>_</u>						PI	М							
NS/EW Streets:		Piilani Hwy		ı	Piilani Hwy		Ku	lanihakoi S	St	К	ulanihakoi :	St		
	1	NORTHBOUN	ID	S	OUTHBOUN	D	E	ASTBOUN	D	,	WESTBOUN	ID		
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER	WL 0	WT 0	WR	TOTAL	NB
LAINES.		2	U	U	2			U		U	U	U		
3:00 PM	0	17	0	0	10	0	0	0	0	0	0	0	27	
3:15 PM	0	10	0	0	14	0	0	0	0	0	0	0	24	
3:30 PM	0	8	0	0	9	0	0	0	1	0	0	0	18	
3:45 PM	0	5	0	0	6	0	0	0	0	0	0	0	11	
4:00 PM	0	10	0	0	3	0	0	0	0	0	0	0	13	
4:15 PM	0	4	0	0	6	0	0	0	0	0	0	0	10	
4:30 PM	0	4	0	0	1	0	0	0	0	0	0	0	5	
4:45 PM	0	10	0	0	1	0	0	0	0	0	0	0	11	
5:00 PM	0	2	0	0	5	0	0	0	0	0	0	0	7	
5:15 PM	0	6	0	0	1	0	0	0	0	0	0	0	7	
5:30 PM	0	4	0	0	1	0	0	0	0	0	0	0	5	
5:45 PM	0	1	0	0	7	2	0	0	1	0	0	0	11	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB
TOTAL VOLUMES :	0	81	0	0	64	2	0	0	2	0	0	0	149	0
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	96.97%	3.03%	0.00%	0.00%	100.00%	#DIV/0!	#DIV/0!	#DIV/0!	ļ	Į.
PEAK HR START TIME :	315	DM											TOTAL	
FEAR HR START TIME :	315	F IVI											TOTAL	
PEAK HR VOL:	0	33	0	0	32	0	0	0	1	0	0	0	66	

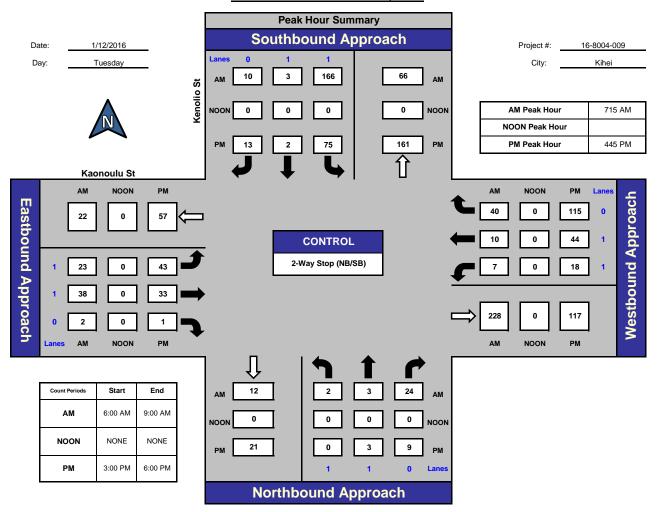
AFFROACH 703.	0.007	6 100.0076	0.0076	0.0076	70.7770	3.0376	0.0076	0.0076	100.0078	#DIV/0!	#DIV/0!	#DIV/0:	
PEAK HR START TIME :	31	5 PM											TOTAL
PEAK HR VOL:	0	33	0	0	32	0	0	0	1	0	0	0	66
PEAK HR FACTOR:		0.825			0.571			0.250			0.000		0.991

ITM Peak Hour Summary

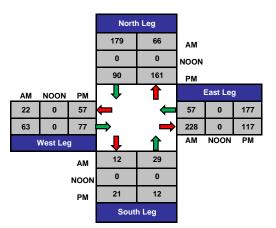


National Data & Surveying Services

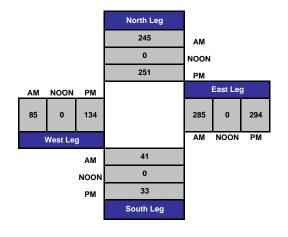
Kenolio St and Kaonoulu St, Kihei



Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by: National Data & Surveying Services

Project ID: 16-8004-009 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 NS/EW Streets: Kenolio St Kenolio St Kaonoulu St Kaonoulu St NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS SL 1 ST 1 SR 0 ET 1 ER 0 WL 1 WT WR 0 TOTAL NB SB EB WB LANES: 6:00 AM 6:15 AM 6:30 AM 6:45 AM 7:00 AM 7:15 AM 7:30 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM 18 37 62 56 61 83 86 85 74 59 61 49 7 13 30 27 31 37 47 43 39 24 20 22 NT 9 13.43% SL 340 92.64% ST 5 1.36% ET 99 71.22% ER 4 2.88% WL 16 10.13% WR 103 65.19% NR 54 80.60% TOTAL VOLUMES : APPROACH %'s :

PEAK HR START TIME:	71	5 AM											TOTAL
PEAK HR VOL:	2	3	24	166	3	10	23	38	2	7	10	40	328
PEAK HR FACTOR:		0.725			0.844			0.788			0.750		0.953

Project ID: City:		9				TOT.						Tuesday 1/12/2016					
NS/EW Streets:		Kenolio St		1	Kenolio St		K	aonoulu St		K	aonoulu St						
	N	ORTHBOUN	ID	SC	OUTHBOUN	ID		EASTBOUND)	٧	WESTBOUN	D			UT	URNS	
LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 1	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB	SB	EB	WB
3:00 PM 3:15 PM	1	0	6	7 24	0 2	1	13 9	12 10	1 0	1 6	13 7	22 18	77 84	1 0			
3:30 PM 3:45 PM	0	2	1	19 15	3	3 5	5 15	7	0	2	9 12	18 12	69 76	0			
4:00 PM	1	0	2	23	1	3	8	9	ó	5	6	25	83	ő			
4:15 PM 4:30 PM	0	2	2	18 24	1	0 2	18 13	5 5	0	4	4	15 30	69 88	0			
4:45 PM	o	Ö	5	23	Ö	3	12	6	0	2	13	29	93	0			
5:00 PM 5:15 PM	0	1	0	12	2	3	11	9	1	6	8	32	85	0			
5:30 PM	0	i	3	23 17	0	2 5	8 12	9	0	6 4	10 13	19 35	79 99	0			
5:45 PM	0	0	4	23	1	2	6	2	0	6	11	15	70	0			
TOTAL VOLUMES : APPROACH %'s :	NL 2 4.65%	NT 8 18.60%	NR 33 76.74%	SL 228 84.13%	ST 10 3.69%	SR 33 12.18%	EL 130 57.78%	ET 90 40.00%	ER 5 2.22%	WL 50 11.55%	WT 113 26.10%	WR 270 62.36%	TOTAL 972	NB 1	SB 0	EB 0	WB 0
PEAK HR START TIME :	445	PM											TOTAL				
PEAK HR VOL:	0	3	9	75	2	13	43	33	1	18	44	115	356				
PEAK HR FACTOR :		0.600			0.865			0.917			0.851		0.899				

Project ID:	16-8004-00	19				_					Day:	Tuesday					
City:	Kihei					Ca	irs				Date:	1/12/2016					
_						Α	М						1				
NS/EW Streets:		Kenolio St		1	Cenolio St		К	Caonoulu St		К	Caonoulu St						
	N	ORTHBOUN	ID.	SC	OUTHBOUN	D	-	EASTBOUNE)	١	WESTBOUN	D			UTU	URNS	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
LANES:	1	1	0	1	1	0	1	1	0	1	1	0					
6:00 AM	0	0	4	7	0	1	0	4	0	1	0	1	18				
6:15 AM	1	0	2	13	0	1	0	8	1	1	3	7	37				
6:30 AM	0	2	6	30	1	0	2	8	0	0	1	9	59				
6:45 AM	0	0	6	26	0	1	1	8	0	0	6	7	55				
7:00 AM	0	3	4	31	0	2	2	7	0	2	3	7	61				
7:15 AM	0	2	8	37	1	2	5	8	1	1	3	15	83				
7:30 AM	0	0	7	46	2	4	5	8	0	1	3	7	83				
7:45 AM	1	1	4	43	0	3	6	13	1	2	0	11	85				
8:00 AM	1	0	4	39	0	1	7	9	0	3	4	6	74				
8:15 AM	1	1	2	23	0	2	2	8	0	2	2	14	57				
8:30 AM	0	0	4	20	1	3	2	10	0	1	9	10	60				
8:45 AM	0	0	2	21	0	2	2	6	0	2	5	8	48				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	4	9	53	336	5	22	34	97	3	16	39	102	720	0	0	0	0
APPROACH %'s :	6.06%	13.64%	80.30%	92.56%	1.38%	6.06%	25.37%	72.39%	2.24%	10.19%	24.84%	64.97%	ļ	ļ	ļ	I	I I
PEAK HR START TIME :	715	AM											TOTAL				
PEAK HR VOL:	2	3	23	165	3	10	23	38	2	7	10	39	325				
			,														
DEAK HD FACTOR :		0.700			0.856			0.788			0.737		0.056				

UTURNS

EB

WB

SB

NB

Project ID: 16-8004-009 Day: Tuesday City: Kihei Date: 1/12/2016

_						PI	VI						
NS/EW Streets:		Kenolio St		1	Kenolio St		K	aonoulu St		K	aonoulu St		
	N	ORTHBOUN	ID	SC	OUTHBOUN	ID	ı	ASTBOUND)	٧	WESTBOUN	D	
LANES:	NL	NT 1	NR 0	SL 1	ST 1	SR 0	EL	ET 1	ER 0	WL 1	WT	WR 0	TOTAL
LANES:	1		U			U		1	U		1	U	
3:00 PM	1	0	6	7	0	1	13	12	1	1	13	22	77
3:15 PM	0	1	3	24	1	4	9	10	0	6	7	18	83
3:30 PM	0	2	1	19	3	3	5	7	0	2	9	18	69
3:45 PM	0	0	4	15	0	5	15	7	1	5	12	12	76
4:00 PM	1	0	2	23	1	3	7	9	0	5	6	25	82
4:15 PM	0	2	2	18	1	0	18	5	0	4	4	15	69
4:30 PM	0	0	2	24	0	2	13	5	2	3	7	30	88
4:45 PM	0	0	5	23	0	3	12	6	0	2	13	29	93
5:00 PM	0	1	0	12	2	3	11	9	1	6	8	32	85
5:15 PM	0	1	1	23	0	2	8	9	0	6	10	19	79
5:30 PM	0	1	3	17	0	5	12	9	0	4	13	35	99
5:45 PM	0	0	4	23	1	2	6	2	0	6	11	15	70
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES:	2	8	33	228	9	33	129	90	5	50	113	270	970
APPROACH %'s:	4.65%	18.60%	76.74%	84.44%	3.33%	12.22%	57.59%	40.18%	2.23%	11.55%	26.10%	62.36%	
PEAK HR START TIME :	445	PM											TOTAL
PEAK HR VOL:	0	3	9	75	2	13	43	33	1	18	44	115	356

CONTROL : 2-Way Stop (NB/SB)

Project ID: 16-8004-009 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016

						A	VI						=				
NS/EW Street	ts:	Kenolio St		1	Kenolio St		К	Caonoulu St	:	К	Caonoulu St	t					
_	N	IORTHBOU	ND	S	OUTHBOUN	D	I	EASTBOUN	D	١	WESTBOUN	ID		-	UT	URNS	
LANES:	NL 1	NT	NR 0	SL 1	ST 1	SR 0	EL 1	ET 1	ER 0	WL	WT	WR 0	TOTAL	NB	SB	EB	WB
EAIVES.			·	•		•			·			·					
6:00 AN	1 0	0	0	0	0	0	0	0	0	0	0	0	0				
6:15 AN	1 0	0	0	0	0	0	0	0	0	0	0	0	0				
6:30 AN	1 0	0	0	0	0	0	2	0	1	0	0	0	3				
6:45 AN		0	0	1	0	0	0	0	0	0	0	0	1				
7:00 AN	1 0	0	0	0	0	0	0	0	0	0	0	0	0				
7:15 AN	1 0	0	0	0	0	0	0	0	0	0	0	0	0				
7:30 AN		0	1	1	0	0	0	0	0	0	0	1	3				
7:45 AN	1 0	0	0	0	0	0	0	0	0	0	0	0	0				
8:00 AN		0	0	0	0	0	0	0	0	0	0	0	0				
8:15 AN		0	0	1	0	0	0	1	0	0	0	0	2				
8:30 AN		0	0	0	0	0	0	1	0	0	0	0	1				
8:45 AN	1 0	0	0	1	0	0	0	0	0	0	0	0	1				
-	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES		0	1	4	0	0	2	2	1	0	0	1	11	0	0	0	0
APPROACH %'s	0.00%	0.00%	100.00%	100.00%	0.00%	0.00%	40.00%	40.00%	20.00%	0.00%	0.00%	100.00%	l l	l	l	Į	ļ
PEAK HR START TIME	715	AM											TOTAL				
PEAK HR VOI	_ : 0	0	1	1	0	0	0	0	0	0	0	1	3				

CONTROL: 2-Way Stop (NB/SB)

Intersection Turning Movement

Prepared by: National Data & Surveying Services

Day: Tuesday

2 Axle+ Trucks City: Kihei Date: 1/12/2016 Kenolio St Kenolio St Kaonoulu St NS/EW Streets: Kaonoulu St NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS NT 1 NR 0 ST 1 SR 0 ET 1 WT WR 0 TOTAL NB SB EB WB LANES: 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 0

ET 0 0.00%

ER 0 0.00% WL 0 #DIV/0! WT 0 #DIV/0!

WR 0 #DIV/0!

PEAK HR START TIME :	44!	5 PM											TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR:		0.000			0.000			0.000			0.000		0.899

SR 0 0.00%

EL

SL ST 0 1 0.00% 100.00%

CONTROL: 2-Way Stop (NB/SB)

TOTAL VOLUMES : 0
APPROACH %'s : #DIV/0!

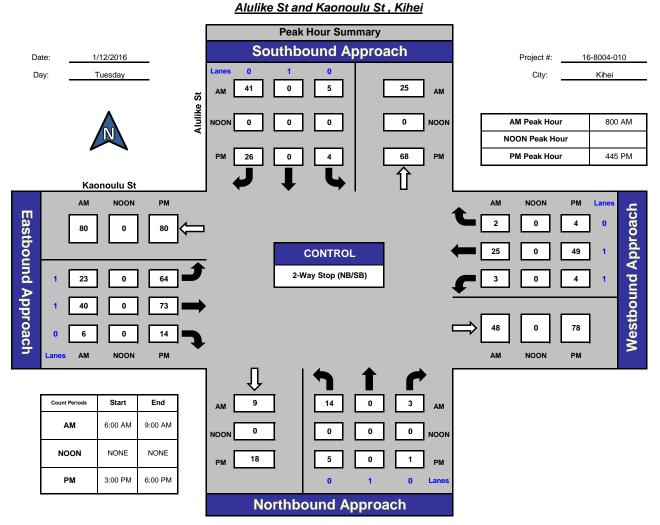
NT 0 #DIV/0!

NR 0 #DIV/0!

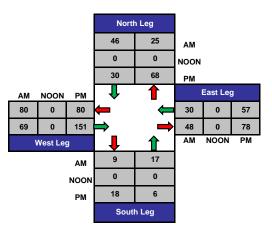
Project ID: 16-8004-009

ITM Peak Hour Summary

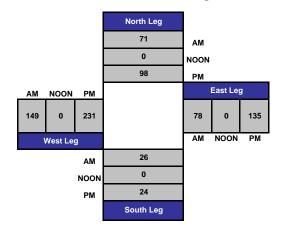








Total Volume Per Leg



Project ID: 16-8004-010 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 AM

_						AN	Л						_				
NS/EW Streets:		Alulike St			Alulike St		K	Caonoulu St		K	aonoulu St						
	NO	ORTHBOUN	ID	SC	OUTHBOUN	D	1	EASTBOUND)	٧	VESTBOUND)			UTI	JRNS	
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 1	ET 1	ER 0	WL	WT	WR 0	TOTAL	NB	SB	EB	WB
EANES.	Ü	•	Ü	·	•	Ü	•		·			·					
6:00 AM	3	0	0	0	0	2	0	5	1	0	1	0	12				
6:15 AM	1	0	3	0	0	0	0	5	0	1	3	1	14				
6:30 AM	2	2	1	0	0	9	0	12	0	0	1	0	27				
6:45 AM	3	0	2	0	0	9	3	7	2	0	7	0	33				
7:00 AM	5	1	2	0	1	8	1	8	2	2	3	0	33				
7:15 AM	2	1	0	0	0	9	1	13	0	0	5	0	31				
7:30 AM	5	0	1	1	1	11	7	12	1	0	8	0	47				
7:45 AM	0	0	1	1	0	5	1	18	2	0	4	0	32				
8:00 AM	4	0	0	1	0	5	3	14	2	1	5	0	35				
8:15 AM	4	0	1	3	0	13	8	9	2	0	5	0	45				
8:30 AM	3	0	2	0	0	12	6	10	0	2	8	2	45				
8:45 AM	3	0	0	1	0	11	6	7	2	0	7	0	37				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES:	35	4	13	7	2	94	36	120	14	6	57	3	391	0	0	0	0
APPROACH %'s :	67.31%	7.69%	25.00%	6.80%	1.94%	91.26%	21.18%	70.59%	8.24%	9.09%	86.36%	4.55%	l l	l	l]	l
K HR START TIME :	800 A	AM											TOTAL				
DEAK HD VOI	1/	0	2 	5	0	41 I	22	40	6 1	2	25	2	162				

CONTROL: 2-Way Stop (NB/SB)

Intersection Turning Movement

Prepared by: National Data & Surveying Services

Project ID: 16-8004-010 Day: Tuesday TOTALS City: Kihei Date: 1/12/2016 Alulike St Alulike St Kaonoulu St NS/EW Streets: Kaonoulu St NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS NT 1 NR 0 ST 1 SR 0 ET 1 WT WR 0 TOTAL NB SB EB WB LANES: 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 25 19 11 23 13 21 17 18 19 15 21 8 65 54 51 51 54 50 59 64 53 68 47 0 0 0 0 0 0 0 0 0 13 10 11 12 12 10 14 19 13 18 9 12 9 11 17 8 1 NT 6 16.67% ER 42 10.22% WL 10 6.85% WR 8 5.48% SL 9 9.57% SR 85 90.43% TOTAL 687 NR ST WT TOTAL VOLUMES : APPROACH %'s : PEAK HR START TIME : TOTAL PEAK HR VOL 0 26 73 14 244

0.878

0.750

CONTROL: 2-Way Stop (NB/SB)

Project ID: City:		0				Ca						Tuesday 1/12/2016					
NS/EW Streets:		Alulike St			Alulike St		K	Caonoulu St		K	Caonoulu St						
	No	ORTHBOUN	ID	S	DUTHBOUN	ID		EASTBOUNE)	1	NESTBOUND)			UT	TURNS	
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 1	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB	SB	EB	WB
6:00 AM 6:15 AM	3	0	0 3	0	0	2	0	5 5	1 0	0	1 3	0	12 14	-			
6:30 AM	2	1	1	0	0	9	0	9	0	0	1	0	23				
6:45 AM 7:00 AM	3 5	0	2	0	0	9 8	3	7 8	2	0 2	7	0	33 33				
7:00 AM 7:15 AM	2	4	0	0	0	9	1	13	0	0	5	0	33 31				
7:30 AM	5	ò	1	1	0	11	,	12	1	0	7	0	45				
7:45 AM	Ō	Ō	i	1	ō	5	1	18	2	ō	4	ō	32				
8:00 AM	4	0	0	1	0	5	3	13	2	1	5	0	34				
8:15 AM	4	0	1	2	0	13	8	9	2	0	5	0	44				
8:30 AM	3	0	2	0	0	11	6	9	0	2	8	2	43				
8:45 AM	3	0	0	1	0	11	6	7	2	0	7	0	37				
TOTAL VOLUMES : APPROACH %'s :	NL 35 68.63%	NT 3 5.88%	NR 13 25.49%	SL 6 6.00%	ST 1 1.00%	SR 93 93.00%	EL 36 21.82%	ET 115 69.70%	ER 14 8.48%	WL 6 9.23%	WT 56 86.15%	WR 3 4.62%	TOTAL 381	NB 0	SB 0	EB 0	WB 0
PEAK HR START TIME :	800 /	AM											TOTAL				
PEAK HR VOL:	14	0	3	4	0	40	23	38	6	3	25	2	158				
PEAK HR FACTOR:		0.850			0.733			0.882			0.625		0.898				

Intersection Turning Movement

Prepared by: National Data & Surveying Services

Project ID: 16-8004-010 Day: Tuesday City: Kihei Date: 1/12/2016 Alulike St Alulike St Kaonoulu St NS/EW Streets: Kaonoulu St NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND UTURNS NT 1 NR 0 ST 1 SR 0 ET 1 WT WR 0 TOTAL NB SB EB WB LANES: 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 65 53 50 71 49 54 50 59 63 53 68 47 25 19 11 23 12 21 17 18 18 15 21 8 0 0 0 0 0 0 0 0 0 13 10 11 12 12 10 14 19 13 18 9 12 9 11 17 8 1 NT 6 17.14% ET 208 50.86% ER 42 10.27% WL 10 6.85% WR 8 5.48% NL 23 65.71% TOTAL 682 NR ST WT TOTAL VOLUMES : APPROACH %'s : PEAK HR START TIME : TOTAL PEAK HR VOL 0 26 72 14 243 0.750 PEAK HR FACTOR:

Project ID: 16-8004-010 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 AM

_						AN	1						
NS/EW Streets:		Alulike St			Alulike St		ŀ	Kaonoulu St			Kaonoulu St		
I	N	IORTHBOUN	D	S	OUTHBOUN	ID		EASTBOUND			WESTBOUNE)	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	0	1	1	0	1	1	0	
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	1	0	0	0	0	0	3	0	0	0	0	4
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:15 AM	0	0	0	1	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	1	0	1	0	0	0	0	2
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES:	0	1	0	1	1	1	0	5	0	0	1	0	10
APPROACH %'s :	0.00%	100.00%	0.00%	33.33%	33.33%	33.33%	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	
K HR START TIME :	800	AM											TOTAL

NB 0	SB 0	EB 0	WB 0	
0	0	0	0	l

UTURNS

EB

WB

SB

NB

CONTROL : 2-Way Stop (NB/SB)

UTURNS

EB

WB

SB

NB

Project ID: 16-8004-010 Day: Tuesday 2 Axle+ Trucks City: Kihei Date: 1/12/2016 РМ

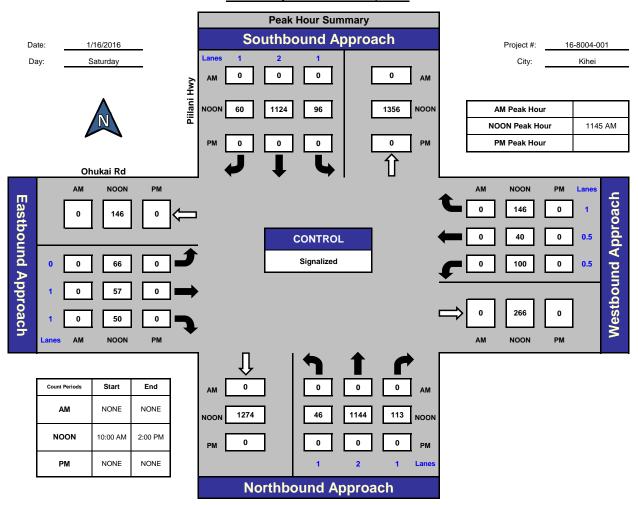
NS/EW Streets:		Alulike St			Alulike St			Kaonoulu St	·		Kaonoulu S	t	
	N	ORTHBOUN	D	SC	OUTHBOU	ND		EASTBOUNE)	,	WESTBOUN	ID.	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	0	1	1	0	1	1	0	
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	1
3:30 PM	1	0	0	0	0	0	0	0	0	0	0	0	1
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	1	0	0	0	0	2	0	2	0	0	0	0	5
APPROACH %'s:	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	
HR START TIME :	445	DM											TOTAL

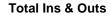
PEAK HR START TIME :	445	PM .											TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	1	0	0	0	0	1
PEAK HR FACTOR:		0.000			0.000			0.250			0.000		0.893

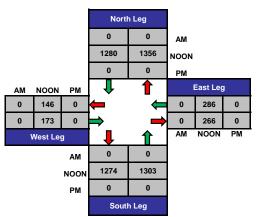
ITM Peak Hour Summary



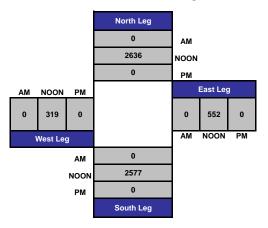
Piilani Hwy and Ohukai Rd, Kihei







Total Volume Per Leg



Intersection Turning Movement

Prepared by: National Data & Surveying Services

Day: Saturday

WT 148 12.34%

WL 477 39.78%

WR 574 47.87%

TOTAL 11805

SB 0

EB 0

TOTALS Date: 1/16/2016 City: Kihei NS/EW Streets: Piilani Hwy Piilani Hwy Ohukai Rd Ohukai Rd SOUTHBOUND UTURNS NT 2 ET WL 0.5 WT 0.5 WR TOTAL NB SB EB WB LANES: 10:00 AM 313 270 278 286 296 299 249 323 260 282 279 258 263 256 242 256 203 247 253 252 223 272 269 281 276 273 294 315 296 283 303 287 12 8 6 13 10 7 16 16 19 9 16 15 15 16 13 27 20 7 17 12 19 10 18 14 12 13 19 10 12 20 30 35 40 30 28 30 39 26 29 28 17 30 19 26 33 37 39 41 39 33 46 37 50 24 39 48 35 30 26 27 28 32 722 8 7 12 5 12 7 8 7 11 12 16 5 10 12 9 37 22 19 22 40 26 20 28 25 38 22 18 21 25 12 26 12 24 29 27 22 26 27 25 29 20 22 30 15 22 23 23 17 17 20 19 20 19 25 14 14 26 12 13 12 14 27 8 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 726 729 727 761 741 785 733 766 758 753 711 713 726 728 21 14 17 11 15 11 8 13 18 10 13 15 9 8 13 12 9 5 14 9 11 6 12 5 0 0 1 0 0 0 0 0 0

ET 242 33.06%

213 29.10%

EL 277 37.84%

PEAK HR START TIME :	1145	AM											TOTAL
PEAK HR VOL :	46	1144	113	96	1124	60	66	57	50	100	40	146	3042
PEAK HR FACTOR :		0.910			0.964			0.848			0.883		0.969

207 4.22%

ST 4327 88.13%

SL 376 7.66%

CONTROL : Signalized

TOTAL VOLUMES : APPROACH %'s :

NT 4410 88.84%

NL 153 3.08%

NR 401 8.08%

Project ID: 16-8004-001

Project ID: City:		1				Ca NO					•	Saturday 1/16/2016					
NS/EW Streets:	F	Piilani Hwy		P	iilani Hwy		(Ohukai Rd		(Ohukai Rd						
	N	ORTHBOUN	D	SC	OUTHBOUND)	E	ASTBOUND)	٧	VESTBOUND)			UT	URNS	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
LANES:	1	2	1	1	2	1	0	1	1	0.5	0.5	1	TOTAL	ND	36	LD	WD
10:00 AM	8	313	37	12	200	12	17	27	18	30	6	39	719	0			
10:15 AM	7	268	22	24	242	8	17	20	21	34	14	41	718	0			
10:30 AM	12	270	19	29	249	6	20	7	14	40	9	38	713	0			
10:45 AM	5	283	21	27	246	13	19	17	16	30	8	32	717	0			
11:00 AM	12	294	40	21	220	10	20	12	11	28	7	46	721	1			
11:15 AM	7	294	26	26	268	7	19	18	11	30	8	37	751	0			
11:30 AM	8	247	20	27	265	16	24	10	15	39	13	50	734	0			
11:45 AM	7	317	28	25	277	16	14	18	11	26	11	24	774	0			
12:00 PM	11	257	25	29	274	19	14	14	8	29	9	37	726	1			
12:15 PM	11	275	38	20	270	9	26	12	13	28	5	48	755	0			
12:30 PM	16	271	20	22	292	16	12	13	18	17	14	34	745	0			
12:45 PM	5	252	18	29	310	16	13	19	10	29	9	30	740	0			
1:00 PM	10	260	20	15	292	15	12	10	13	19	11	26	703	0			
1:15 PM	12	253	25	21	280	15	14	12	15	26	6	25	704	0			
1:30 PM	9	241	12	23	300	16	27	12	9	33	12	26	720	0			
1:45 PM	12	255	23	23	286	13	8	20	9	37	5	30	721	0			
TOTAL VOLUMES : APPROACH %'s :	NL 152 3.10%	NT 4350 88.85%	NR 394 8.05%	SL 373 7.69%	ST 4271 88.04%	SR 207 4.27%	EL 276 37.86%	ET 241 33.06%	ER 212 29.08%	WL 475 40.08%	WT 147 12.41%	WR 563 47.51%	TOTAL 11661	NB 2	SB 0	EB 0	WB 0
PEAK HR START TIME :	1145 /	AM											TOTAL				
PEAK HR VOL :	45	1120	111	96	1113	60	66	57	50	100	39	143	3000				
PEAK HR FACTOR :	PEAK HR FACTOR: 0.906							0.848			0.870		0.969				

CONTROL : Signalized

Project ID: 16-8004-001 Day: Saturday 2 Axle+ Trucks City: Kihei Date: 1/16/2016

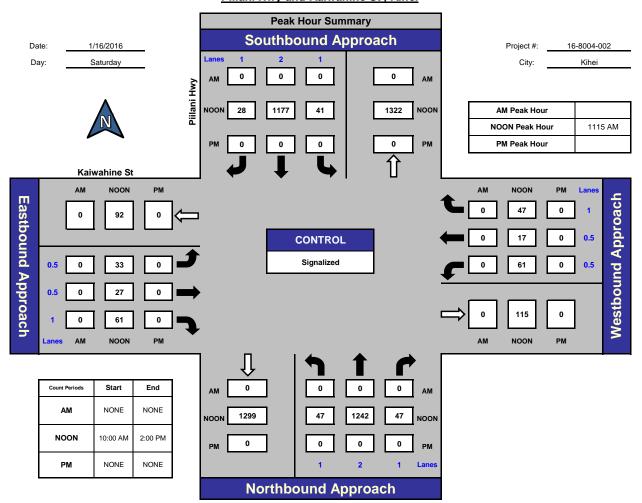
orty. Killer				NOON						Date: 1/10/2010								
NS/EW Streets:	ı	Piilani Hwy		Piilani Hwy			Ohukai Rd			Ohukai Rd								
	N	ORTHBOUN	D	SOUTHBOUND			EASTBOUND			WESTBOUND					UTURNS			
1.44/50	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0	ET 1	ER 1	WL 0.5	WT	WR	TOTAL		NB	SB	EB	WB
LANES:	1	2	1	1	2	1	U	1	1	0.5	0.5	1						
10:00 AM	0	0	0	0	3	0	0	0	0	0	0	0	3					
10:15 AM	0	2	0	0	5	0	0	0	0	1	0	0	8					
10:30 AM	0	8	0	0	4	0	0	0	0	0	0	1	13					
10:45 AM	0	3	1	0	6	0	0	0	1	0	0	1	12					
11:00 AM	0	2	0	1	3	0	0	0	0	0	0	0	6					
11:15 AM	0	5	0	0	4	0	0	1	0	0	0	0	10					
11:30 AM	0	2	0	0	4	0	1	0	0	0	0	0	7					
11:45 AM	0	6	0	0	4	0	0	0	0	0	1	0	11					
12:00 PM	0	3	0	0	2	0	0	0	0	0	0	2	7					
12:15 PM	1	7	0	0	3	0	0	0	0	0	0	0	11					
12:30 PM	0	8	2	0	2	0	0	0	0	0	0	1	13					
12:45 PM	0	6	0	1	5	0	0	0	0	1	0	0	13					
1:00 PM	0	3	1	0	4	0	0	0	0	0	0	0	8					
1:15 PM	0	3	0	1	3	0	0	0	0	0	0	2	9					
1:30 PM	0	1	0	0	3	0	0	0	0	0	0	2	6					
1:45 PM	0	1	3	0	1	0	0	0	0	0	0	2	7					
-	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL		NB	SB	EB	WB
TOTAL VOLUMES :	1	60	7	3	56	0	1	1	1	2	1	11	144		0	0	0	0
APPROACH %'s:	1.47%	88.24%	10.29%	5.08%	94.92%	0.00%	33.33%	33.33%	33.33%	14.29%	7.14%	78.57%					l	
PEAK HR START TIME :	1145	AM											TOTAL					
PEAK HR VOL :	1	24	2	0	11	0	0	0	0	0	1	3	42					
DEAK HD FACTOR :		0.675		0.688			0.000			0.500			0.969					

CONTROL: Signalized

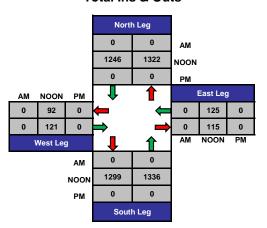
ITM Peak Hour Summary



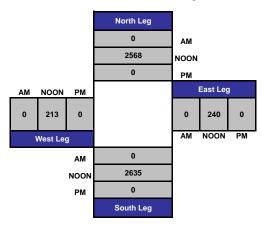
Piilani Hwy and Kaiwahine St, Kihei



Total Ins & Outs



Total Volume Per Leg



Prepared by: National Data & Surveying Services

TOTALS City: Kihei Date: 1/16/2016 NS/EW Streets: Piilani Hwy Piilani Hwy Kaiwahine St Kaiwahine St SOUTHBOUND WESTBOUND UTURNS NT 2 EL 0.5 ET 0.5 WL 0.5 WT 0.5 WR TOTAL NB SB EB WB LANES: 10:00 AM 335 313 320 335 329 350 278 326 288 307 293 290 264 281 277 262 13 16 6 6 14 15 14 9 9 10 13 10 11 10 17 10 8 16 12 6 10 6 13 12 10 14 15 11 14 17 11 203 234 262 252 232 281 291 284 321 275 317 324 280 304 326 318 14 20 18 13 13 9 19 9 10 10 8 14 9 636 663 679 649 723 694 712 699 662 709 726 637 674 706 676 14 17 16 9 12 22 13 14 12 11 14 15 16 10 8 13 20 20 15 14 15 19 17 10 7 20 16 11 10 14 11 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 9 8 6 9 12 10 13 12 8 10 7 8 7 6 5 12 6 10 7 4 9 10 8 12 10 6 6 11 5 9 8 12 11 8 6 13

ET 99 21.71%

ER 220 48.25%

WL 232 47.54%

Day: Saturday

WR 198 40.57%

TOTAL 10938

SB 0

WT 58 11.89%

PEAK HR START TIME :	1115	5 AM											TOTAL
PEAK HR VOL :	47	1242	47	41	1177	28	33	27	61	61	17	47	2828
PEAK HR FACTOR :		0.886			0.922			0.658			0.727		0.978

SR 132 2.74%

EL 137

30.04%

ST 4504 93.42%

CONTROL : Signalized

TOTAL VOLUMES : APPROACH %'s :

6 11

NL 143 2.76%

NT 4848 93.72%

NR 182 3.52%

SL 185 3.84%

Project ID: 16-8004-002

Project ID:		2				Ca NO					•	Saturday 1/16/2016							
NS/EW Streets:	F	Piilani Hwy		F	Piilani Hwy		Ka	aiwahine St		K	aiwahine St								
	N	ORTHBOUNI)	SC	OUTHBOUND)	Е	ASTBOUND)	V	VESTBOUND)			U	TURNS			_
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 0.5	ET 0.5	ER 1	WL 0.5	WT 0.5	WR 1	TOTAL	NB	SB	E	В	WB	
10:00 AM	7	332	13	10	200	7	9	2	14	13	9	14	630	1					_
10:15 AM 10:30 AM	9	312	16	8	230	9	9	4	16	20	4	20	657	0					
10:30 AM 10:45 AM	8 6	311 329	6 6	16 12	257 245	8 5	11 8	5	17 16	20 15	1	18 13	678 665	0					
11:00 AM	9	325	14	5	245	7	6	6	9	14	3	13	637	0					
11:15 AM	12	346	15	10	279	6	5	2	12	15	6	9	717	Ö					
11:30 AM	10	275	14	6	287	6	12	12	22	19	5	19	687	Ō					
11:45 AM	13	323	9	13	282	11	6	9	13	17	2	9	707	0					
12:00 PM	12	283	9	12	320	5	10	4	14	10	4	10	693	0					
12:15 PM	8	299	9	10	272	9	7	7	11	7	1	10	650	0					
12:30 PM	10	287	10	14	316	8	4	8	11	20	6	8	702	0					
12:45 PM	7	282	13	15	318	11	9	9	14	16	3	13	710	0					
1:00 PM	8	261	10	11	275	10	10	4	14	11	4	9	627	0					
1:15 PM	7	277	11	14	300	8	8	3	16	10	3	9	666	0					
1:30 PM	6	275	10	17	323	6	12	13	10	14	1	14	701	0					
1:45 PM	11	258	17	11	317	13	10	5	8	11	1	9	671	0					
TOTAL VOLUMES : APPROACH %'s :	NL 143 2.80%	NT 4775 93.63%	NR 182 3.57%	SL 184 3.87%	ST 4447 93.42%	SR 129 2.71%	EL 136 30.09%	ET 99 21.90%	ER 217 48.01%	WL 232 47.74%	WT 57 11.73%	WR 197 40.53%	TOTAL 10798	NB 1	SB 0		B 0	WB 0	
PEAK HR START TIME :	1115 /	AM											TOTAL						
PEAK HR VOL :	47	1227	47	41	1168	28	33	27	61	61	17	47	2804						

0.658

0.978

0.727

CONTROL : Signalized

0.885

0.918

PEAK HR FACTOR :

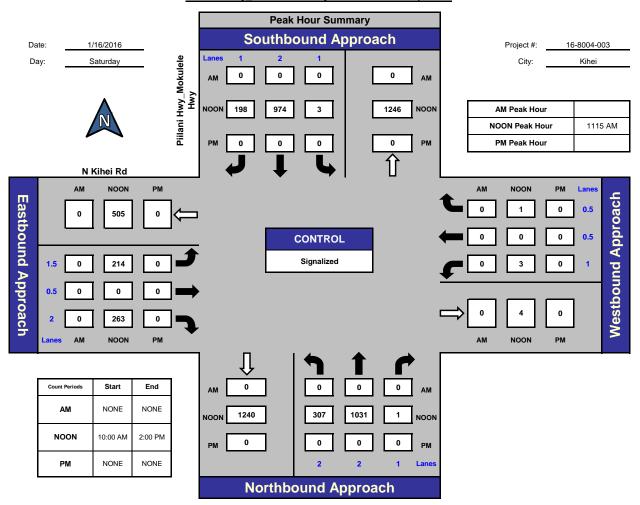
Project ID: 16-8004-002 Day: Saturday 2 Axle+ Trucks City: Kihei Date: 1/16/2016

oity.	Killer					NO	ON				Date.	17 1072010					
NS/EW Streets:		Piilani Hwy		ı	Piilani Hwy		Ka	iwahine St		K	aiwahine St						
	N	IORTHBOUN	D	S	OUTHBOUND)	E	ASTBOUNE)	V	VESTBOUNI	D			UTI	URNS	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
LANES:	1	2	1	1	2	1	0.5	0.5	1	0.5	0.5	1					
10:00 AM	0	3	0	0	3	0	0	0	0	0	0	0	6				
10:15 AM	0	1	0	0	4	0	0	0	1	0	0	0	6				
10:30 AM	0	9	0	0	5	1	0	0	0	0	0	0	15				
10:45 AM	0	6	0	0	7	0	1	0	0	0	0	0	14				
11:00 AM	0	4	0	1	6	0	0	0	0	0	1	0	12				
11:15 AM	0	4	0	0	2	0	0	0	0	0	0	0	6				
11:30 AM	0	3	0	0	4	0	0	0	0	0	0	0	7				
11:45 AM	0	3	0	0	2	0	0	0	0	0	0	0	5				
12:00 PM	0	5	0	0	1	0	0	0	0	0	0	0	6				
12:15 PM	0	8	0	0	3	0	0	0	1	0	0	0	12				
12:30 PM	0	6	0	0	1	0	0	0	0	0	0	0	7				
12:45 PM	0	8	0	0	6	1	0	0	0	0	0	1	16				
1:00 PM	0	3	0	0	5	1	0	0	1	0	0	0	10				
1:15 PM	0	4	0	0	4	0	0	0	0	0	0	0	8				
1:30 PM	0	2	0	0	3	0	0	0	0	0	0	0	5				
1:45 PM	0	4	0	0	1	0	0	0	0	0	0	0	5				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	0	73	0	1	57	3	1	0	3	0	1	1	140	0	0	0	0
APPROACH %'s:	0.00%	100.00%	0.00%	1.64%	93.44%	4.92%	25.00%	0.00%	75.00%	0.00%	50.00%	50.00%	l l	ļ			
PEAK HR START TIME :	1115	AM											TOTAL				
PEAK HR VOL :	0	15	0	0	9	0	0	0	0	0	0	0	24				
DEAK HD FACTOR :		0.750			0.563			0.000			0.000		0.078				

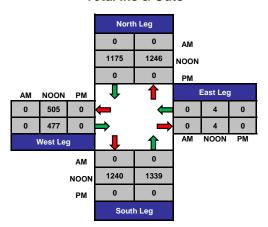
CONTROL: Signalized



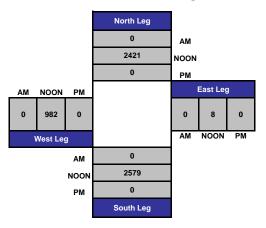
Piilani Hwy Mokulele Hwy and N Kihei Rd, Kihei







Total Volume Per Leg



Prepared by: National Data & Surveying Services

Project ID: 16-8004-003 Day: Saturday TOTALS Date: 1/16/2016 City: Kihei NS/EW Streets: Piilani Hwy_Mokulele Hwy Piilani Hwy_Mokulele Hwy N Kihei Rd N Kihei Rd SOUTHBOUND UTURNS NT 2 NR 1 EL 1.5 ET 0.5 WT WR 0.5 TOTAL NB SB EB WB LANES: 0.5 10:00 AM 700 286 265 292 277 278 262 240 251 241 220 237 219 215 228 232 173 180 216 204 185 236 221 242 275 257 263 229 243 290 289 49 35 43 45 52 51 53 43 51 47 59 44 51 47 53 66 56 46 43 51 51 52 63 45 54 37 40 39 53 51 41 37 80 68 62 69 65 72 66 90 79 78 81 86 70 65 55 49 66 67 59 68 76 59 70 64 80 81 68 75 67 57 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 664 725 705 700 750 742 722 781 708 742 752 691 696 744 738 0 2 0 0 0 0 SL 8 0.18% ST 3738 82.43% SR 789 17.40% NL 1146 NR 10 EL 759 41.54% WL 13 TOTAL 11560 SB 0 EB 0 TOTAL VOLUMES : APPROACH %'s : 4020 77.67% 4 0.22% 1064 6 27.27% 22.14% 59.09% 13.64% 0.19% 58.24% PEAK HR START TIME : TOTAL 1115 Al 974 214 0 263 0

0.858

1.000

0.959

0.901

CONTROL : Signalized

0.954

PEAK HR FACTOR :

Project ID:	16-8004-00	3				Ca	ire				Day: S	Saturday						
City:	Kihei					NO					Date: 1	/16/2016						
NS/EW Streets:	Piilani H	wy_Mokulel	e Hwy	Piilani H	wy_Mokulel			I Kihei Rd			N Kihei Rd							
	N	ORTHBOUN	D	SC	OUTHBOUN	D	E	ASTBOUND)	V	VESTBOUND)	l		UT	URNS		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	w	ID.
LANES:	2	2	1	1	2	1	1.5	0.5	2	1	0.5	0.5	TOTAL	IND	ЭБ	ED	vv	ь
10:00 AM	80	284	0	0	170	49	55	1	48	5	1	0	693					
10:15 AM	67	264	0	2	178	34	46	2	65	0	0	0	658					
10:30 AM	61	286	0	0	211	42	41	0	66	1	1	0	709					
10:45 AM	68	273	0	0	199	43	51	0	59	0	0	0	693					
11:00 AM	64	277	1	0	179	50	49	0	65	0	0	1	686					
11:15 AM	71	275	1	1	234	51	52	0	58	0	0	1	744					
11:30 AM	64	260	0	0	216	52	62	0	75	1	0	0	730					
11:45 AM	90	234	0	2	241	42	44	0	58	1	0	0	712					
12:00 PM	78	246	0	0	273	51	51	0	70	1	0	0	770					
12:15 PM	76	236	5	0	231	46	36	0	64	1	0	0	695					
12:30 PM	79	214	2	1	257	59	38	0	80	0	0	2	732					
12:45 PM	86	229	0	0	258	43	37	0	79	0	1	0	733					
1:00 PM	70	214	0	0	225	49	50	0	67	0	0	1	676					
1:15 PM	59	211	1	1	241	47	50	1	75	2	0	0	688					
1:30 PM	64	226	0	0	287	53	39	0	66	0	0	0	735					
1:45 PM	55	229	0	1	289	66	34	0	57	0	0	1	732					
	NL 1100	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	W	
TOTAL VOLUMES : APPROACH %'s :	1132 22.20%	3958 77.61%	10 0.20%	8 0.18%	3689 82.45%	777 17.37%	735 41.04%	4 0.22%	1052 58.74%	12 57.14%	3 14.29%	6 28.57%	11386	0	0	0	0	,
PEAK HR START TIME :	1115 /	ANA	<u>'</u>				•						TOTAL			•	•	•
PEAK THE START TIME :	1115 /	HIVI											TOTAL					
PEAK HR VOL :	303	1015	1	3	964	196	209	0	261	3	0	1	2956					
PEAK HR FACTOR :		0.950			0.897			0.858			1.000		0.960					

CONTROL: Signalized

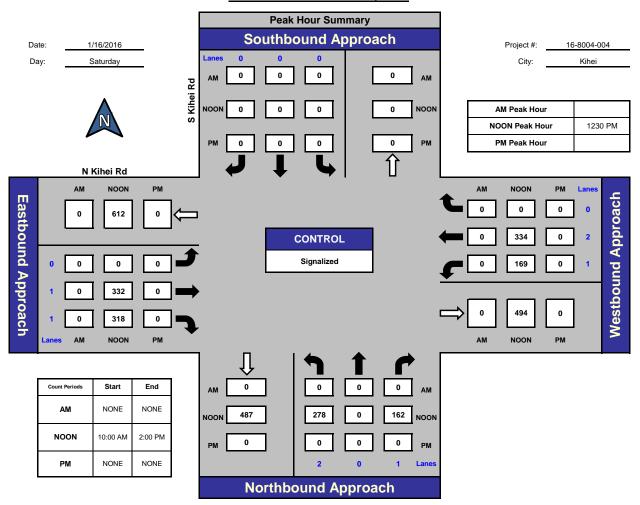
Project ID: 16-8004-003 Day: Saturday 2 Axle+ Trucks City: Kihei Date: 1/16/2016

- <u>-</u>						NO	ON						i				
NS/EW Streets:	Piilani H	wy_Mokulel	e Hwy	Piilani H	wy_Mokulel	e Hwy	N	I Kihei Rd		1	N Kihei Rd						
	N	ORTHBOUN	D	SC	OUTHBOUN	D	E	ASTBOUND)	V	VESTBOUND)		-	UT	URNS	
LANES:	NL 2	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1.5	ET 0.5	ER 2	WL 1	WT 0.5	WR 0.5	TOTAL	NB	SB	EB	WB
10:00 AM	0	2	0	0	3	0	1	0	1	0	0	0	7				
10:15 AM	1	1	0	0	2	1	0	0	1	0	0	0	6				
10:30 AM	1	6	0	0	5	1	2	0	1	0	0	0	16				
10:45 AM	1	4	0	0	5	2	0	0	0	0	0	0	12				
11:00 AM	1	0	0	0	6	2	2	0	3	0	0	0	14				
11:15 AM	1	3	0	0	2	0	0	0	0	0	0	0	6				
11:30 AM	2	2	0	0	5	1	1	0	1	0	0	0	12				
11:45 AM	0	6	0	0	1	1	1	0	1	0	0	0	10				
12:00 PM	1	5	0	0	2	0	3	0	0	0	0	0	11				
12:15 PM	2	5	0	0	4	1	1	0	0	0	0	0	13				
12:30 PM	2	6	0	0	0	0	2	0	0	0	0	0	10				
12:45 PM	0	8	0	0	5	1	2	0	2	1	0	0	19				
1:00 PM	0	5	0	0	4	2	3	0	1	0	0	0	15				
1:15 PM	1	4	0	0	2	0	1	0	0	0	0	0	8				
1:30 PM	1	2	0	0	3	0	2	0	1	0	0	0	9				
1:45 PM	0	3	0	0	0	0	3	0	0	0	0	0	6				
TOTAL VOLUMES : APPROACH %'s :	NL 14 18.42%	NT 62 81.58%	NR 0 0.00%	SL 0 0.00%	ST 49 80.33%	SR 12 19.67%	EL 24 66.67%	ET 0 0.00%	ER 12 33.33%	WL 1 100.00%	WT 0 0.00%	WR 0 0.00%	TOTAL 174	NB 0	SB 0	EB 0	WB 0
PEAK HR START TIME :	1115 /	AM											TOTAL				
PEAK HR VOL :	4	16	0	0	10	2	5	0	2	0	0	0	39				
PEAK HR FACTOR :		0.833			0.500			0.583			0.000		0.960				

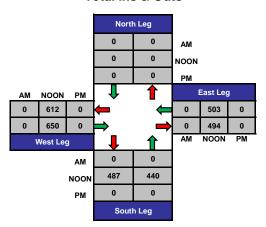
CONTROL : Signalized



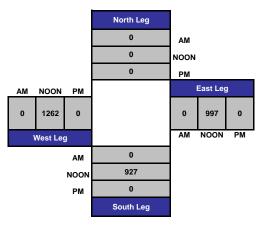
S Kihei Rd and N Kihei Rd, Kihei







Total Volume Per Leg



Prepared by: National Data & Surveying Services

Project ID: 16-8004-004 Day: Saturday TOTALS Date: 1/16/2016 City: Kihei NOON NS/EW Streets: S Kihei Rd S Kihei Rd N Kihei Rd N Kihei Rd SOUTHBOUND UTURNS NT SL 0 ST SR 0 ET WT WR TOTAL NB SB EB WB LANES: 10:00 AM 355 58 66 69 63 67 68 88 54 75 71 88 90 69 85 74 62 63 76 73 62 72 75 68 55 48 57 78 63 78 59 58 61 0 0 0 0 0 0 0 0 0 0 0 47 43 49 50 46 49 46 54 28 37 37 43 45 33 35 56 63 79 50 55 75 58 61 72 83 75 82 75 86 80 94 41 33 32 36 37 42 45 39 47 44 45 44 36 42 58 90 72 76 73 79 85 72 95 86 82 91 88 81 74 73 68 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 353 372 333 360 391 380 350 374 368 413 405 390 385 360 378 0 0 0 0 0 0 0 0 0 0 0 0 NR 685 39.57% EL 0 0.00% ER 1144 49.93% WL 660 33.93% NL 1046 SL 0 ET 1147 WT 1285 TOTAL 5967 SB 0 EB 0 TOTAL VOLUMES : APPROACH %'s : 0 0 0.00% #DIV/0! #DIV/0! 50.07% 60.43% #DIV/0! 66.07% PEAK HR START TIME : TOTAL 1230 PM 162 0 0 332 318 334 0 1593

0.945

0.931

0.964

0.000

CONTROL : Signalized

0.909

PEAK HR FACTOR :

Prepared by: National Data & Surveying Services

Project ID: 16-8004-004 Day: Saturday Date: 1/16/2016 City: Kihei NOON NS/EW Streets: S Kihei Rd S Kihei Rd N Kihei Rd N Kihei Rd SOUTHBOUND UTURNS NT SL 0 ST SR 0 ET WT WR TOTAL NB SB EB WB LANES: 10:00 AM 57 66 68 63 64 68 87 74 71 88 87 68 84 72 60 63 76 72 62 72 75 66 55 48 57 76 63 78 59 56 61 0 0 0 0 0 0 0 0 0 0 0 54 62 78 49 54 74 58 61 71 81 74 86 80 93 41 33 32 34 36 42 45 38 39 47 44 44 43 36 42 57 90 71 74 72 76 84 69 95 86 79 88 80 73 72 68 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 43 42 49 49 46 47 45 51 28 35 42 45 32 34 351 366 329 351 389 372 347 369 363 406 398 385 383 354 373 0 0 0 0 0 0 0 0 0 0 0 0 NR 667 39.10% EL 0 0.00% WT 1266 65.97% NL 1039 SL 0 ET 1130 ER 1130 WL 653 34.03% TOTAL 5885 NB 0 SB 0 EB 0 TOTAL VOLUMES : APPROACH %'s : 0.00% 0 0.00% #DIV/0! #DIV/0! 60.90% #DIV/0! 50.00% 50.00% PEAK HR START TIME : TOTAL 1230 PM 157 0 0 327 315 167 330 0 1572 0.000 0.944 0.934 0.968 PEAK HR FACTOR : 0.902

CONTROL : Signalized

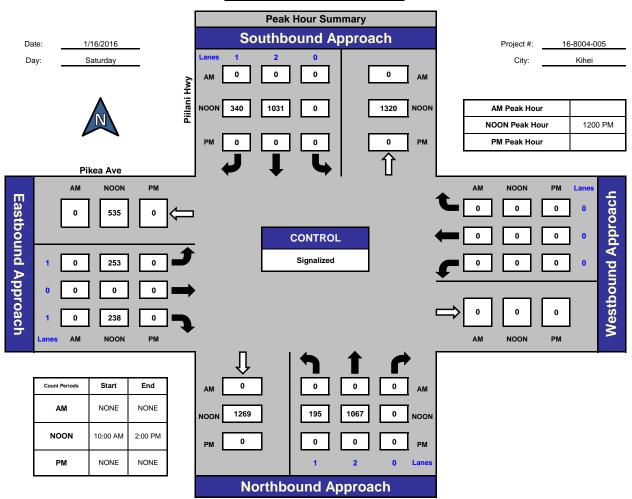
Project ID: 16-8004-004 Day: Saturday 2 Axle+ Trucks City: Kihei Date: 1/16/2016

						NOC	N						•						
NS/EW Streets:	S	Kihei Rd			S Kihei Rd		ı	N Kihei Rd		1	N Kihei Rd								
	NO	ORTHBOUN	D	S	OUTHBOU	ND	E	ASTBOUND)	٧	VESTBOUNE)				UTU	RNS		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB		EB	W	/B
LANES:	2	0	1	0	0	0	0	1	1	1	2	0							
10:00 AM	0	0	3	0	0	0	0	1	2	0	0	0	6						
10:15 AM	0	0	0	0	0	0	0	0	1	0	1	0	2						
10:30 AM	1	0	1	0	0	0	0	1	1	0	2	0	6						
10:45 AM	0	0	0	0	0	0	0	0	1	2	1	0	4						
11:00 AM	0	0	1	0	0	0	0	3	1	1	3	0	9						
11:15 AM	0	0	0	0	0	0	0	0	1	0	1	0	2						
11:30 AM	2	0	2	0	0	0	0	1	0	0	3	0	8						
11:45 AM	0	0	1	0	0	0	0	1	0	1	0	0	3						
12:00 PM	0	0	3	0	0	0	0	1	1	0	0	0	5						
12:15 PM	0	0	0	0	0	0	0	0	2	0	3	0	5						
12:30 PM	2	0	2	0	0	0	0	0	1	0	2	0	7						
12:45 PM	0	0	2	0	0	0	0	3	1	1	0	0	7						
1:00 PM	0	0	1	0	0	0	0	1	1	1	1	0	5						
1:15 PM	0	0	0	0	0	0	0	1	0	0	1	0	2						
1:30 PM	2	0	1	0	0	0	0	2	0	0	1	0	6						
1:45 PM	0	0	1	0	0	0	0	2	1	1	0	0	5						
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB		EB	W	/B
TOTAL VOLUMES :	7	0	18	0	0	0	0	17	14	7	19	0	82	0	0		0	(
APPROACH %'s:	28.00%	0.00%	72.00%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	54.84%	45.16%	26.92%	73.08%	0.00%							
PEAK HR START TIME :	1230 P	M											TOTAL						
PEAK HR VOL :	2	0	5	0	0	0	0	5	3	2	4	0	21						
PEAK HR FACTOR :		0.438			0.000			0.500			0.750		0.968						

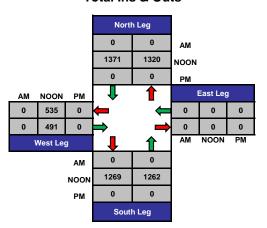
CONTROL : Signalized



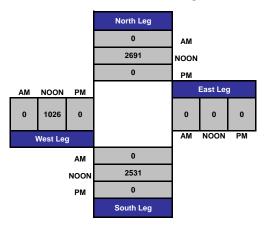
Piilani Hwy and Pikea Ave, Kihei



Total Ins & Outs



Total Volume Per Leg



Prepared by: National Data & Surveying Services

Project ID: 16-8004-005 Day: Saturday TOTALS Date: 1/16/2016 City: Kihei NOON NS/EW Streets: Piilani Hwy Piilani Hwy Pikea Ave Pikea Ave SOUTHBOUND UTURNS NT NR 0 SL 0 ET WT WR TOTAL NB SB EB WB LANES: 10:00 AM 44 37 43 50 59 48 55 39 42 54 49 50 34 41 45 275 259 275 264 310 290 241 302 276 272 259 260 271 244 237 267 233 242 233 216 203 249 234 230 243 254 259 275 285 245 268 270 64 89 81 79 90 97 73 86 84 74 96 65 87 75 78 745 82 61 67 82 63 51 64 63 67 65 58 60 57 0 0 0 0 0 0 0 0 0 0 0 0 47 44 58 55 72 58 52 59 49 66 66 57 41 54 82 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 729 751 731 805 798 730 767 759 797 772 796 740 759 768 0 SL 0 0.00% SR 1297 24.77% NL 743 14.73% EL 1011 52.60% WL 0 WR 0 TOTAL 12203 NB 0 SB 0 TOTAL VOLUMES : APPROACH %'s : 4302 85.27% 3939 75.23% 911 47.40% 0 0.00% 0.00% #DIV/0! #DIV/0! #DIV/0! PEAK HR START TIME : TOTAL 0 1031 253 0 238 0 0 3124

0.923

0.000

0.980

0.924

CONTROL : Signalized

0.968

PEAK HR FACTOR

Project ID: 1		5				Ca NO					•	Saturday 1/16/2016					
NS/EW Streets:	F	Piilani Hwy		F	Piilani Hwy			Pikea Ave			Pikea Ave						
	NO	ORTHBOUND)	SC	OUTHBOUN	D	E	ASTBOUND)		WESTBOUN	ID			U	TURNS	
		NT	ND	CI.	C.T.	c.p.			ED	140	MIT	WD	TOTAL	ND	CD.		MD
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER 1	WL 0	WT 0	WR 0	TOTAL	NB	SB	EB	WB
ENINES.		-	Ü	Ü	-			·	•	Ü	•	Ü					
10:00 AM	44	275	0	0	229	64	82	0	47	0	0	0	741			0	
10:15 AM	37	257	0	0	238	89	58	0	44	0	0	0	723			1	
10:30 AM	43	267	0	0	229	81	60	0	58	0	0	0	738			0	
10:45 AM	50	262	0	0	209	79	67	0	55	0	0	0	722			0	
11:00 AM	59	308	0	0	203	78	82	0	72	0	0	0	802			0	
11:15 AM	48	286	0	0	247	90	62	0	58	0	0	0	791			0	
11:30 AM	55	240	0	0	231	97	51	0	51	0	0	0	725			0	
11:45 AM	39	299	0	0	227	73	62	0	59	0	0	0	759			0	
12:00 PM	41	272	0	0	242	86	63	0	49	0	0	0	753			0	
12:15 PM	54	267	0	0	254	84	64	0	66	0	0	0	789			0	
12:30 PM	49	254	0	0	259	72	63	0	66	0	0	0	763			0	
12:45 PM	50	256	0	0	271	96	58	0	57	0	0	0	788			0	
1:00 PM	33	270	0	0	281	65	59	0	41	0	0	0	749			0	
1:15 PM	52	242	0	0	244	87	56	0	54	0	0	0	735			0	
1:30 PM	41	234	0	0	262	75	56	0	82	0	0	0	750			0	
1:45 PM	45	266	0	0	268	78	57	0	51	0	0	0	765			0	
TOTAL VOLUMES : APPROACH %'s :	NL 740 14.81%	NT 4255 85.19%	NR 0 0.00%	SL 0 0.00%	ST 3894 75.06%	SR 1294 24.94%	EL 1000 52.36%	ET 0 0.00%	ER 910 47.64%	WL 0 #DIV/0!	WT 0 #DIV/0!	WR 0 #DIV/0!	TOTAL 12093	NB 0	SB 0	EB 1	WB 0
PEAK HR START TIME :	1200 F	PM											TOTAL				
PEAK HR VOL :	194	1049	0	0	1026	338	248	0	238	0	0	0	3093				
PEAK HR FACTOR :		0.968			0.929			0.935			0.000		0.980				

CONTROL: Signalized

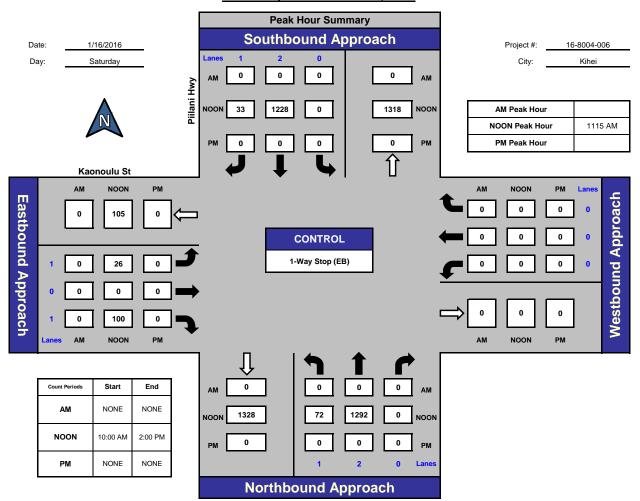
Project ID: 16-8004-005 Day: Saturday 2 Axle+ Trucks City: Kihei Date: 1/16/2016

Oity.						NO	ON				Duto.	17 10/2010					
NS/EW Streets:	F	Piilani Hwy		P	Piilani Hwy		ı	Pikea Ave			Pikea Ave						
	N	ORTHBOUND		SC	DUTHBOUND)	E	ASTBOUND			WESTBOUN	ID			U.	TURNS	
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER 1	WL 0	WT 0	WR 0	TOTAL	NB	SB	EB	WB
10:00 AM	0	0	0	0		0	0	0	0	0	0	0					
10:15 AM	0	2	0	0	4	0	0	0	0	0	0	0	6				
10:30 AM	0	8	0	0	4	0	1	0	0	0	0	0	13				
10:45 AM	0	2	0	0	7	0	Ö	0	0	0	0	0	9				
11:00 AM	0	2	0	0	ó	1	0	0	0	0	0	0	3				
11:15 AM	0	1	0	o O	2	Ö	1	0	n	0	0	n	7				
11:30 AM	0	1	0	0	3	0	Ö	0	1	0	0	n	5				
11:45 AM	0	3	0	0	3	0	2	0	ò	0	0	n	8				
12:00 PM	1	4	0	0	1	0	0	0	0	0	0	n	6				
12:15 PM	ò	5	0	0	'n	0	3	0	0	0	0	n	8				
12:30 PM	0	5	Ö	0	o o	2	2	0	n	Ö	0	0	9				
12:45 PM	0	4	Ö	0	4	0	0	0	n	Ö	0	0	8				
1:00 PM	1	i	Ö	0	4	Ö	1	0	0	Ö	0	0	7				
1:15 PM	1	2	ō	0	1	Ō	1	Ō	ō	ō	ō	ō	5				
1:30 PM	Ö	3	ō	0	6	Ō	Ô	Ō	ō	ō	ō	ō	9				
1:45 PM	Ō	1	Ō	Ō	2	Ō	0	0	Ō	0	0	Ō	3				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES : APPROACH %'s :	3 6.00%	47 94.00%	0 0.00%	0 0.00%	45 93.75%	3 6.25%	11	0 0.00%	1 8.33%	0 #DIV/0!	0 #DIV/0!	0 #DIV/0!	110	0	0	0	0
PEAK HR START TIME :	1200 F	PM											TOTAL				
PEAK HR VOL :	1	18	0	0	5	2	5	0	0	0	0	0	31				
PEAK HR FACTOR :		0.950			0.438			0.417			0.000		0.980				

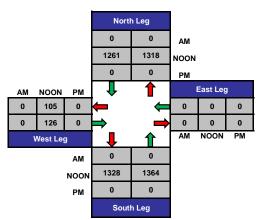
CONTROL: Signalized



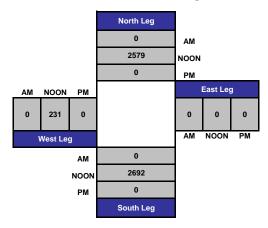
Piilani Hwy and Kaonoulu St, Kihei



Total Ins & Outs



Total Volume Per Leg



Prepared by: National Data & Surveying Services

Project ID: 16-8004-006 Day: Saturday TOTALS Date: 1/16/2016 City: Kihei NOON NS/EW Streets: Piilani Hwy Piilani Hwy Kaonoulu St Kaonoulu St SOUTHBOUND UTURNS NT NR 0 SL 0 ET WT WR TOTAL NB SB EB WB LANES: 10:00 AM 337 318 309 313 353 337 288 339 328 296 295 294 299 302 266 290 240 294 290 296 248 301 314 309 304 299 324 348 311 320 339 315 633 11 11 17 13 20 19 17 16 20 14 7 14 19 17 13 16 19 17 0000000000000000 29 28 30 24 27 34 20 25 21 27 26 27 15 31 27 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 6 11 9 2 12 14 10 3 6 11 3 10 12 5 10 4 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 668 665 670 709 659 684 649 663 695 662 679 660 647 0 0 0 0 0 0 0 0 0 0 0 0 6 10 8 10 4 10 7 5 0 0 0 0 0 0 0 0 0 0 0 SL 0 0.00% WR 0 #DIV/0! NL 244 4.69% EL 102 WL 0 TOTAL 10698 SB 0 EB 0 TOTAL VOLUMES : APPROACH %'s : 4964 95.31% 4852 97.43% 128 2.57% 0 0 408 0.00% 20.00% 0.00% 80.00% #DIV/0! #DIV/0! PEAK HR START TIME : TOTAL 1115 AM 1228 33 0 100 0 0 2751

0.829

0.000

0.970

CONTROL: 1-Way Stop (EB)

0.958

PEAK HR FACTOR

0.973

Prepared by: National Data & Surveying Services

Project ID: 16-8004-006 Day: Saturday Date: 1/16/2016 City: Kihei NOON NS/EW Streets: Piilani Hwy Piilani Hwy Kaonoulu St Kaonoulu St SOUTHBOUND UTURNS NT NR 0 SL 0 ET WT WR TOTAL NB SB EB WB LANES: 10:00 AM 337 316 301 307 351 333 286 333 324 288 287 288 296 299 265 287 236 289 287 290 245 297 310 306 301 297 321 344 306 318 336 312 629 661 654 644 665 701 653 689 677 639 651 685 654 674 656 11 11 17 13 20 19 17 15 20 14 7 14 19 17 13 16 0000000000000000 29 28 30 24 27 34 20 25 27 25 27 15 31 27 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 6 11 9 2 12 14 10 3 6 11 3 10 12 5 10 4 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 0 0 0 0 0 0 0 0 0 0 0 0 6 10 8 10 4 10 7 5 0 0 0 0 0 0 0 0 0 0 0 NT 4898 95.27% SL 0 0.00% ST 4795 97.40% SR 128 2.60% ER 407 79.96% WR 0 #DIV/0! NL 243 4.73% EL 102 WL 0 TOTAL 10573 SB 0 EB 0 TOTAL VOLUMES : APPROACH %'s : 0 0 0.00% 20.04% 0.00% #DIV/0! #DIV/0! PEAK HR START TIME : TOTAL 1115 AM 1214 33 0 100 0 0 2720 0.974 0.829 0.000 0.970 PEAK HR FACTOR 0.957

CONTROL: 1-Way Stop (EB)

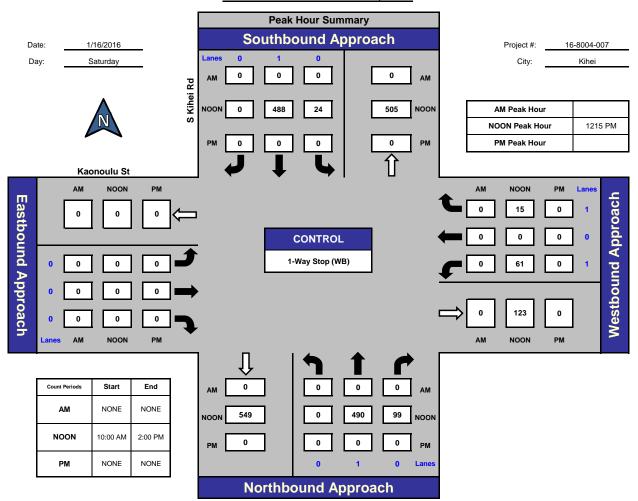
Project ID: 16-8004-006 Day: Saturday 2 Axle+ Trucks City: Kihei Date: 1/16/2016

Oity.	CIII CI					NOC	N				Date.	17 10/2010					
NS/EW Streets:	F	Piilani Hwy			Piilani Hwy		Ka	aonoulu St			Kaonoulu S	t					
_	N	ORTHBOUNI	D	S	OUTHBOUND)	E	ASTBOUN	D		WESTBOUN	ND.			UT	TURNS	
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER 1	WL 0	WT 0	WR 0	TOTAL	NB	SB	EB	WB
LANES.	'	2	U	U	2			U		U	U	U					
10:00 AM	0	0	0	0	4	0	0	0	0	0	0	0	4				
10:15 AM	0	2	0	0	5	0	0	0	0	0	0	0	7				
10:30 AM	0	8	0	0	3	0	0	0	0	0	0	0	11				
10:45 AM	0	6	0	0	6	0	0	0	0	0	0	0	12				
11:00 AM	0	2	0	0	3	0	0	0	0	0	0	0	5				
11:15 AM	0	4	0	0	4	0	0	0	0	0	0	0	8				
11:30 AM	0	2	0	0	4	0	0	0	0	0	0	0	6				
11:45 AM	1	6	0	0	3	0	0	0	0	0	0	0	10				
12:00 PM	0	4	0	0	3	0	0	0	0	0	0	0	7				
12:15 PM	0	8	0	0	2	0	0	0	0	0	0	0	10				
12:30 PM	0	8	0	0	3	0	0	0	1	0	0	0	12				
12:45 PM	0	6	0	0	4	0	0	0	0	0	0	0	10				
1:00 PM	0	3	0	0	5	0	0	0	0	0	0	0	8				
1:15 PM	0	3	0	0	2	0	0	0	0	0	0	0	5				
1:30 PM	0	1	0	0	3	0	0	0	0	0	0	0	4				
1:45 PM	0	3	0	0	3	0	0	0	0	0	0	0	6				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	1	66	0	0	57	0	0	0	1	0	0	0	125	0	0	0	0
APPROACH %'s:	1.49%	98.51%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	#DIV/0!	#DIV/0!	#DIV/0!		l	l	I	
PEAK HR START TIME :	1115 /	AM											TOTAL				
PEAK HR VOL :	1	16	o I	0	14	0 I	0	0	0	Ιο	0	0	31				
			ŭ	·		ŭ						J					
PEAK HR FACTOR :		0.607			0.875			0.000			0.000		0.970				

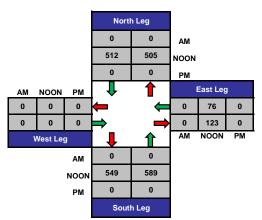
CONTROL: 1-Way Stop (EB)



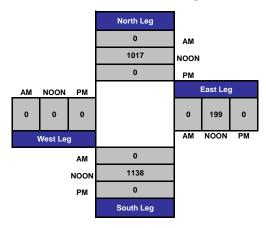
S Kihei Rd and Kaonoulu St , Kihei



Total Ins & Outs



Total Volume Per Leg



Prepared by: National Data & Surveying Services

Project ID: 16-8004-007 Day: Saturday TOTALS Date: 1/16/2016 City: Kihei NOON NS/EW Streets: S Kihei Rd S Kihei Rd Kaonoulu St Kaonoulu St SOUTHBOUND UTURNS WR NL 0 NT NR 0 SL 0 ST SR 0 EL 0 ET ER WT TOTAL NB SB EB WB LANES: 0 10:00 AM 132 126 124 138 121 139 138 108 123 118 122 130 120 121 114 119 94 99 129 107 89 126 106 93 97 126 102 137 123 105 111 271 18 16 23 14 15 17 14 12 18 18 12 13 11 12 14 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 31 19 25 28 23 24 27 23 25 18 28 28 17 16 21 284 309 295 257 313 298 252 257 296 269 319 293 262 259 269 0 NT 1993 84.31% SL 76 4.15% WL 239 77.60% WR 69 22.40% NR 371 15.69% ST 1755 EL 0 SB 0 EB 0 TOTAL VOLUMES : APPROACH %'s : 0 0.00% 0 0 0 4503 95.85% #DIV/0! #DIV/0! #DIV/0! 0.00% PEAK HR START TIME : TOTAL 1215 PM 490 99 24 488 0 0 0 15 1177 0.895 0.000 0.905 0.922 PEAK HR FACTOR 0.932

CONTROL: 1-Way Stop (WB)

Prepared by: National Data & Surveying Services

Project ID: 16-8004-007 Day: Saturday Date: 1/16/2016 City: Kihei NOON NS/EW Streets: S Kihei Rd S Kihei Rd Kaonoulu St Kaonoulu St SOUTHBOUND UTURNS WR NL 0 NT NR 0 SL 0 ST SR 0 ET ER WT TOTAL NB SB EB WB LANES: 0 10:00 AM 270 132 125 120 137 121 136 136 106 122 118 119 127 120 120 111 117 94 97 129 105 89 122 106 91 97 124 101 135 122 104 111 18 16 23 14 15 16 14 12 18 18 11 13 10 12 14 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 31 19 25 28 23 24 27 23 25 18 28 28 17 16 21 281 305 291 257 305 296 248 256 294 265 313 292 259 256 265 5 7 5 2 5 6 5 0 6 8 6 4 0 0 0 0 0 0 0 0 0 0 0 NT 1967 84.13% WL 236 77.38% WR 69 22.62% NR 371 15.87% SL 74 4.09% ST 1736 EL 0 NB 0 SB 0 EB 0 TOTAL VOLUMES : APPROACH %'s : 0 0.00% 0 0 0 4453 #DIV/0! #DIV/0! #DIV/0! 95.91% 0.00% PEAK HR START TIME : TOTAL 1215 PM 484 99 24 482 0 0 0 15 0.897 0.000 0.893 0.930 PEAK HR FACTOR 0.940

CONTROL: 1-Way Stop (WB)

Project ID: 16-8004-007 Day: Saturday 2 Axle+ Trucks City: Kihei Date: 1/16/2016

0.750

_						NO	ON												
NS/EW Streets:		S Kihei Rd		:	S Kihei Rd		1	Kaonoulu S	t	Ka	aonoulu St								
	N	IORTHBOUNI	D	S	OUTHBOUNI)		EASTBOUN	D	W	ESTBOUND)					UTU	RNS	
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 0	ER 0	WL 1	WT 0	WR 1	TOTAL		NB	SB		EB	WB
10:00 AM	0	0	0		0	0	0	0	0	0	0	0		_					
10:00 AW	0	0	0	0	0	0	0	0	0	0	0	0	3						
10:30 AM	0	4	0	0	0	0	0	0	0	0	0	0	3 4						
10:45 AM	0	1	0	1	2	0	0	0	0	0	0	0	4						
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0						
11:15 AM	0	2	0	0	4	0	0	0	0	1	0	0	8						
11:30 AM	0	2	0	0	0	0	0	0	0	'n	0	0	2						
11:45 AM	0	2	0	0	2	0	0	0	0	0	0	0	1						
12:00 PM	0	1	0	0	ō	0	0	0	Ô	n o	0	0	1						
12:15 PM	0	'n	0	0	2	0	0	0	Ô	n o	0	0	2						
12:30 PM	0	3	0	0	1	0	0	0	0	0	0	0	4						
12:45 PM	0	3	0	Ö	2	n	Ö	0	o o	1	0	Ö	6						
1:00 PM	0	0	0	0	1	0	Ö	0	0	o O	0	Ö	1						
1:15 PM	0	1	0	0	i	0	Ö	0	0	1	0	Ö	3						
1:30 PM	ō	3	0	ō	Ó	ō	Ō	Ō	ō	Ô	Ō	ō	3						
1:45 PM	0	2	Ō	0	2	0	0	0	Ō	Ō	0	0	4						
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL		NB	SB		EB	WB
TOTAL VOLUMES:	0	26	0	2	19	0	0	0	0	3	0	0	50		0	0		0	0
APPROACH %'s:	0.00%	100.00%	0.00%	9.52%	90.48%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	100.00%	0.00%	0.00%	l l	ļ		ļ			l
AK HR START TIME :	1215	PM											TOTAL						
PEAK HR VOL :	0	6	0	0	6	0	0	0	0	1	0	0	13						

0.000

0.250

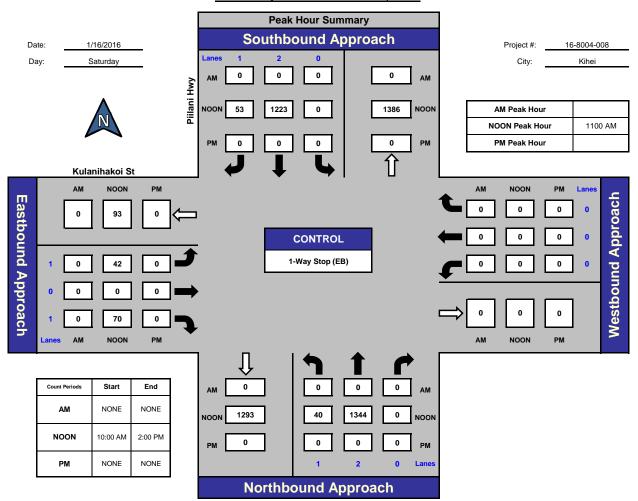
CONTROL: 1-Way Stop (WB)

0.500

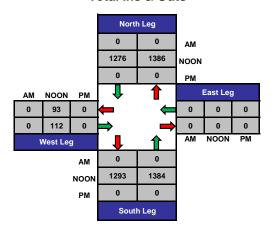
PEAK HR FACTOR :



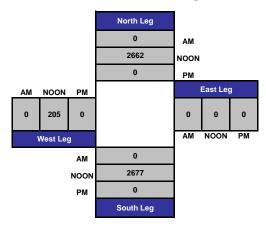
Piilani Hwy and Kulanihakoi St, Kihei







Total Volume Per Leg



Prepared by: National Data & Surveying Services

Day: Saturday

WT 0 0.00%

66.67%

33.33%

TOTAL 10906

TOTALS Date: 1/16/2016 City: Kihei NS/EW Streets: Piilani Hwy Piilani Hwy Kulanihakoi St Kulanihakoi St SOUTHBOUND UTURNS NT 2 NR 0 SL 0 ET ER WT WR TOTAL NB SB EB WB LANES: 10:00 AM 12 5 7 18 10 13 6 11 7 20 10 13 14 8 4 270 294 318 303 259 325 311 328 307 324 332 369 312 340 349 319 664 667 676 676 689 721 633 729 667 686 680 729 662 684 674 669 9 12 9 14 15 12 13 13 10 8 10 16 5 15 17 9 0 0 0 0 0 0 0 0 0 0 0 0 14 22 22 18 23 20 13 14 19 17 20 15 20 8 19 22 11 15 5 7 10 7 13 12 11 4 10 10 9 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 318 315 316 372 344 277 351 313 313 297 306 302 307 276 298 0 1

286

66.36%

0.00%

PEAK HR START TIME :	1100) AM											TOTAL
PEAK HR VOL :	40	1344	0	0	1223	53	42	0	70	0	0	0	2772
PEAK HR FACTOR :		0.906			0.935			0.848			0.000		0.951

SR 187

3.56%

EL 145

33.64%

ST 5060 96.42%

0.02%

CONTROL: 1-Way Stop (EB)

TOTAL VOLUMES : APPROACH %'s :

NL 172 3.29%

NT 5052 96.71%

0.00%

Project ID: 16-8004-008

Prepared by: National Data & Surveying Services

Day: Saturday Date: 1/16/2016 City: Kihei NOON NS/EW Streets: Piilani Hwy Piilani Hwy Kulanihakoi St Kulanihakoi St SOUTHBOUND UTURNS NT NR 0 SL 0 ET WT WR TOTAL NB SB EB WB LANES: 10:00 AM 12 5 7 18 10 13 6 10 7 20 10 13 13 8 4 14 268 288 313 295 254 320 308 325 307 322 329 365 307 338 346 318 660 0000000000000000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 11 15 5 7 10 7 13 12 11 4 10 9 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 315 308 312 369 339 276 347 307 304 292 301 298 304 275 295 11 9 14 15 12 13 13 10 8 10 16 5 15 17 9 656 664 664 681 711 629 721 661 675 672 720 652 679 669 665 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 22 22 18 23 20 13 14 19 17 20 15 20 8 19 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 NT 4988 96.70% ST 5003 96.40% NL 170 3.30% EL 145 33.64% WL 0 WR 0 TOTAL 10779 TOTAL VOLUMES : APPROACH %'s : 186 3.58% 0 0 286 0.02% 0.00% #DIV/0! #DIV/0! #DIV/0! 0.00% 66.36% PEAK HR START TIME : TOTAL 1207 53 42 0 70 0 0 2742

0.848

0.000

0.951

CONTROL: 1-Way Stop (EB)

PEAK HR FACTOR

0.932

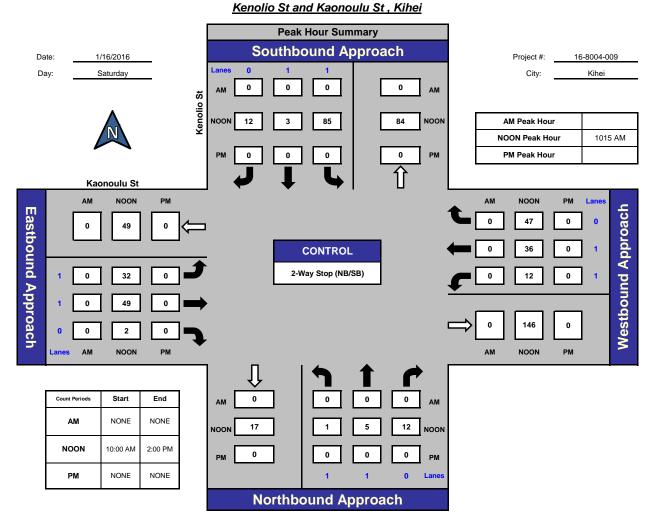
Project ID: 16-8004-008

Project ID: 16-8004-008 Day: Saturday 2 Axle+ Trucks City: Kihei Date: 1/16/2016

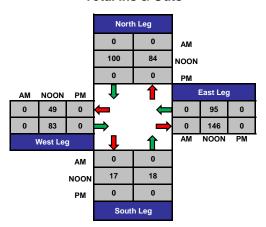
oity.	Killel					NO	ON				Date.	17 10/2010					
NS/EW Streets:	ı	Piilani Hwy		ı	Piilani Hwy		K	ulanihakoi :	St	Ku	ılanihakoi St	i					
·	N	ORTHBOUN)	S	OUTHBOUND)	1	EASTBOUN	D	V	VESTBOUND)			UTI	URNS	
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 1	EL 1	ET 0	ER 1	WL 0	WT 0	WR 0	TOTAL	NB	SB	EB	WB
LAINES.		2	U	U	2			U		U	U	U					
10:00 AM	0	1	0	0	2	0	0	0	0	1	0	0	4				
10:15 AM	0	3	0	0	6	1	0	0	0	0	0	1	11				
10:30 AM	0	7	0	0	5	0	0	0	0	0	0	0	12				
10:45 AM	0	4	0	0	8	0	0	0	0	0	0	0	12				
11:00 AM	0	3	0	0	5	0	0	0	0	0	0	0	8				
11:15 AM	0	5	0	0	5	0	0	0	0	0	0	0	10				
11:30 AM	0	1	0	0	3	0	0	0	0	0	0	0	4				
11:45 AM	1	4	0	0	3	0	0	0	0	0	0	0	8				
12:00 PM	0	6	0	0	0	0	0	0	0	0	0	0	6				
12:15 PM	0	9	0	0	2	0	0	0	0	0	0	0	11				
12:30 PM	0	5	0	0	3	0	0	0	0	0	0	0	8				
12:45 PM	0	5	0	0	4	0	0	0	0	0	0	0	9				
1:00 PM	1	4	0	0	5	0	0	0	0	0	0	0	10				
1:15 PM	0	3	0	0	2	0	0	0	0	0	0	0	5				
1:30 PM	0	1	0	0	3	0	0	0	0	0	0	1	5				
1:45 PM	0	3	0	0	1	0	0	0	0	0	0	0	4				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	2	64	0	0	57	1	0	0	0	1	0	2	127	0	0	0	0
APPROACH %'s:	3.03%	96.97%	0.00%	0.00%	98.28%	1.72%	#DIV/0!	#DIV/0!	#DIV/0!	33.33%	0.00%	66.67%		l l			
PEAK HR START TIME :	1100	AM											TOTAL				
PEAK HR VOL :	1	13	0	0	16	0	0	0	0	0	0	0	30				
DEAK HD FACTOR :		0.700			0.800			0.000			0.000		0.051				

CONTROL: 1-Way Stop (EB)

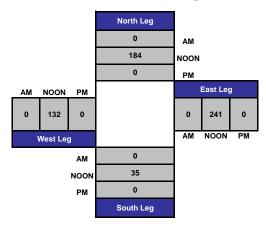








Total Volume Per Leg



Prepared by: National Data & Surveying Services

Project ID: 16-8004-009 Day: Saturday TOTALS City: Kihei Date: 1/16/2016 NOON NS/EW Streets: Kenolio St Kenolio St Kaonoulu St Kaonoulu St NORTHBOUND SOUTHBOUND UTURNS NT NR 0 ST SR 0 ET ER WL WT WR TOTAL NB SB EB WB LANES: 10:00 AM 23 20 22 19 24 19 12 18 13 20 15 23 8 24 22 9 75 77 68 66 85 75 68 62 64 72 48 72 63 68 60 48 17 10 13 12 14 11 10 10 8 11 14 5 6 8 13 8 10 10 19 15 17 10 19 14 7 15 21 15 10 13 4 14 4 6 8 6 7 5 12 10 3 12 11 2 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 0 0 0 0 0 1 0 0 NR 55 71.43% SL 291 85.34% WT 115 31.08% WR 216 58.38% NT 16 EL 108 WL 39 10.54% TOTAL 1071 SB 0 NB 0 TOTAL VOLUMES : APPROACH %'s : 43 12.61% 164 57.95% 11 3.89% 6 7.79% 20.78% 2.05% 38.16% PEAK HR START TIME : TOTAL 5 12 85 3 12 32 49 12 36 47 296 0.926 0.865 0.742 0.871

CONTROL: 2-Way Stop (NB/SB)

0.643

PEAK HR FACTOR

Project ID:			Ca NO					Day: S										
NS/EW Streets:	1	Kenolio St		k	Cenolio St		Kaonoulu St			Kaonoulu St								
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND					UT	URNS		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	W	/D
LANES:	1	1	0	1	1	0	1	1	0	1	1	0	TOTAL	ND	30	LD	vvi	ь
10:00 AM	1	1	3	23	1	6	4	17	1	1	4	13	75			0	0	
10:15 AM	0	1	5	20	0	4	14	10	0	1	13	8	76			0	0	
10:30 AM	0	0	1	22	0	2	4	13	0	6	10	10	68			0	0	
10:45 AM	1	3	2	19	2	4	6	11	2	0	5	10	65			0	0	
11:00 AM	0	0	4	24	1	2	8	14	0	5	8	19	85			0	0	
11:15 AM	0	0	3	19	0	3	6	11	1	2	15	15	75			0	0	
11:30 AM	0	1	5	12	1	3	7	10	1	2	9	17	68			1	0	
11:45 AM	0	1	5	18	1	4	5	10	1	2	4	10	61			0	0)
12:00 PM	0	1	3	13	0	3	12	8	0	2	3	19	64			0	1	
12:15 PM	1	1	4	20	0	1	10	11	0	3	7	14	72			0	0	
12:30 PM	1	0	2	15	0	2	3	14	2	1	1	7	48			0	0	
12:45 PM	1	0	2	23	0	2	12	5	2	3	7	15	72			0	0	
1:00 PM	0	1	3	8	0	1	11	6	0	2	9	21	62			0	0	
1:15 PM	0	2	5	24	0	3	2	8	0	2	6	15	67			0	0	
1:30 PM	1	1	5	22	0	1	1	7	1	3	8	10	60			0	0	
1:45 PM	0	1	3	9	0	2	3	8	0	4	5	13	48			0	0	1
TOTAL VOLUMES : APPROACH %'s :	NL 6 8.00%	NT 14 18.67%	NR 55 73.33%	SL 291 85.59%	ST 6 1.76%	SR 43 12.65%	EL 108 38.30%	ET 163 57.80%	ER 11 3.90%	WL 39 10.57%	WT 114 30.89%	WR 216 58.54%	TOTAL 1066	NB 0	SB 0	EB 1	WI 1	
PEAK HR START TIME :	1015 /	AM											TOTAL					
PEAK HR VOL :	1	4	12	85	3	12	32	48	2	12	36	47	294					
PEAK HR FACTOR :		0.708			0.926			0.854			0.742		0.865					

CONTROL: 2-Way Stop (NB/SB)

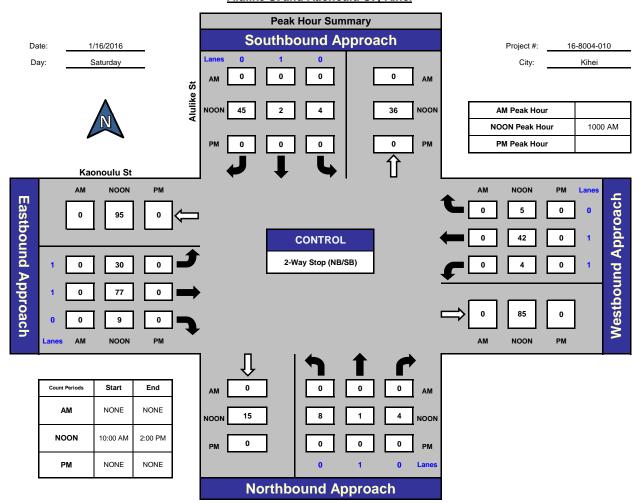
Project ID: 16-8004-009 Day: Saturday 2 Axle+ Trucks City: Kihei Date: 1/16/2016

oity.			NO	ON			Date: 17 10/2010										
NS/EW Streets:	Kenolio St NORTHBOUND			Kenolio St Kenolio St						Kaonoulu St							
				5	OUTHBOUN)	EASTBOUND			WESTBOUND					UTURNS		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
LANES:	1	1	0	1	1	0	1	1	0	1	1	0					
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0				
10:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1				
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0				
10:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1				
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0				
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0				
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0				
11:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1				
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1				
1:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1				
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	0	2	0	0	1	0	0	1	0	0	1	0	5	0	0	0	0
APPROACH %'s:	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%				l	
PEAK HR START TIME :	1015	AM											TOTAL				
PEAK HR VOL :	0	1	0	0	0	0	0	1	0	0	0	0	2				
DEAK HD FACTOR :		0.250			0.000			0.250			0.000		0.865				

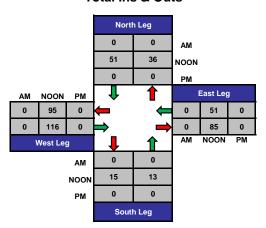
CONTROL: 2-Way Stop (NB/SB)



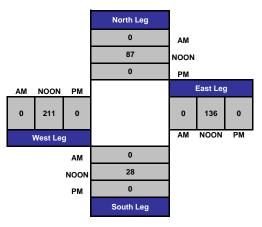
Alulike St and Kaonoulu St, Kihei



Total Ins & Outs



Total Volume Per Leg



Prepared by: National Data & Surveying Services

Project ID: 16-8004-010 Day: Saturday TOTALS City: Kihei Date: 1/16/2016 NOON NS/EW Streets: Alulike St Alulike St Kaonoulu St Kaonoulu St SOUTHBOUND WESTBOUND UTURNS NL 0 NT SL 0 ST SR 0 ET ER WL WT WR TOTAL NB SB EB WB LANES: 10:00 AM 59 64 52 56 52 56 50 51 42 60 46 50 47 39 38 35 10 10 15 10 7 8 4 19 22 16 20 17 15 19 13 18 15 17 18 15 10 10 12 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 8 10 4 8 10 10 10 13 5 10 7 10 13 9 10 7 10 11 10 11 6 14 13 8 5 8 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 1:45 PM 1:00 PM 1:15 PM 1:30 PM 1:30 PM 1:45 PM 0 0 0 0 0 0 0 0 0 0 0 0 3 0 NT 2 4.44% SR 132 87.42% EL 144 33.10% WT 138 83.13% WR 13 7.83% NL 27 NR 16 SL 13 8.61% WL 15 9.04% TOTAL 797 NB 0 SB 0 TOTAL VOLUMES : APPROACH %'s : 256 58.85% 35 8.05% 6 3.97% 60.00% 35.56% PEAK HR START TIME : TOTAL 2 45 30 77 42 231 0.850 0.853 0.750 0.902 PEAK HR FACTOR 0.650

CONTROL: 2-Way Stop (NB/SB)

Project ID: City:			Ca NO					•	aturday /16/2016										
NS/EW Streets:	,	Alulike St			Alulike St		Kaonoulu St			Kaonoulu St									
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND						UTURI	NS		
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 1	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB	SB		EB	W	В
LANES.	U		U	U		U			U	'		U							
10:00 AM	4	0	1	4	0	10	8	19	0	1	10	1	58				0		
10:15 AM	2	0	1	0	0	10	10	22	2	2	11	4	64				0		
10:30 AM	2	0	1	0	0	15	4	16	3	1	10	0	52				0		
10:45 AM	0	1	1	0	2	10	8	19	3	0	11	0	55				1		
11:00 AM	2	0	4	0	0	7	10	17	2	3	6	1	52				0		
11:15 AM	0	0	2	1	0	7	10	15	2	1	14	3	55				0		
11:30 AM	2	0	0	0	0	4	10	19	2	0	13	0	50				0		
11:45 AM	3	0	1	1	0	6	13	13	4	2	8	0	51				0		
12:00 PM	2	0	2	0	1	7	5	18	1	0	5	1	42				0		
12:15 PM	2	1	1	4	1	14	10	15	4	0	8	0	60				0		
12:30 PM	1	0	0	2	0	14	7	17	1	1	3	0	46				0		
12:45 PM	3	0	1	0	0	5	10	18	3	1	9	0	50				0		
1:00 PM	2	0	1	0	1	4	13	15	1	0	9	0	46				0		
1:15 PM	1	0	0	1	0	5	9	10	4	0	8	1	39				0		
1:30 PM	1	0	0	0	1	5	10	10	2	3	5	1	38				0		
1:45 PM	0	0	0	0	0	8	7	12	0	0	7	1	35				0		
TOTAL VOLUMES : APPROACH %'s :	NL 27 60.00%	NT 2 4.44%	NR 16 35.56%	SL 13 8.67%	ST 6 4.00%	SR 131 87.33%	EL 144 33.26%	ET 255 58.89%	ER 34 7.85%	WL 15 9.09%	WT 137 83.03%	WR 13 7.88%	TOTAL 793	NB 0	SB 0		EB 1	0	
PEAK HR START TIME :	1000 A	M											TOTAL						
PEAK HR VOL :	8	1	4	4	2	45	30	76	8	4	42	5	229						
PEAK HR FACTOR :		0.650			0.850			0.838			0.750		0.895						

CONTROL: 2-Way Stop (NB/SB)

Project ID: 16-8004-010 Day: Saturday 2 Axle+ Trucks City: Kihei Date: 1/16/2016

•	NOON																
NS/EW Streets:	: Alulike St			Alulike St			Kaonoulu St			Kaonoulu St							
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND							
	NL	NT	NR	CI	ST	SR	-	CT.		14/1	WT	WR	TOTAL	ND	CD	EB	WB
LANES:	0	1	0	SL 0	1	0 0	EL 1	ET 1	ER 0	WL 1	1	0	TOTAL	NB	SB	EB	WB
10:00 AM	0	0	0	0	0	0	0	0	1	0	0	0	1				
10:00 AW 10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0				
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0				
10:45 AM	0	0	0	o O	n	0	0	1	0	0	0	0	1				
11:00 AM	0	0	0	o O	n	0	0	'n	0	0	0	0	'n				
11:15 AM	Ö	Ö	Ö	0	0	1	0	0	0	0	0	0	1				
11:30 AM	Ō	ō	ō	0	0	0	ō	0	Ō	ō	0	0	0				
11:45 AM	Ō	ō	ō	Ō	ō	0	ō	Ō	Ō	ō	Ō	ō	ō				
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1				
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0				
-	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB
TOTAL VOLUMES :	0	0	0	0	0	1	0	1	1	0	1	0	4	0	0	0	0
APPROACH %'s:	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	0.00%	100.00%	0.00%	50.00%	50.00%	0.00%	100.00%	0.00%					1 1
PEAK HR START TIME :	1000	AM											TOTAL				
PEAK HR VOL :	0	0	o I	0	0	0 I	0	1	1 I	0	0	0	2				
			Ü	U		Ü	Ū			Ü		Ü					
PEAK HR FACTOR :		0.000			0.000			0.500			0.000		0.895				

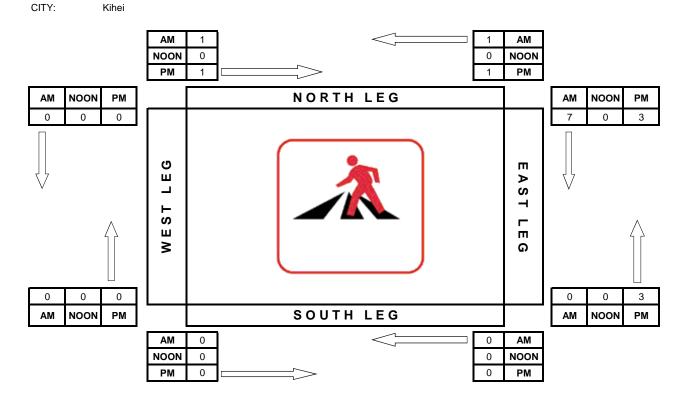
CONTROL: 2-Way Stop (NB/SB)

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Pedestrian Count Peak Hour

PROJECT#: 16-8004-001 N/S Street: Piilani Hwy E/W Street: Ohukai Rd DATE: 1/12/2016

1/12/2016 DAY: Tuesday

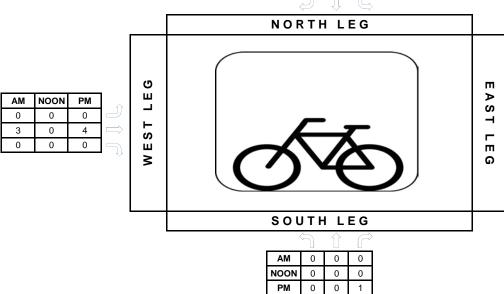


Bicycle

PROJECT#: 16-8004-001 N/S Street: Piilani Hwy Ohukai Rd E/W Street: DATE: 1/12/2016 CITY: Kihei

e Count Peak Hour		Start:	End:
	AM	6:00	9:00
	NOON		
	PM	15:00	18:00

AM	0	0	1
NOON	0	0	0
PM	1	3	1



	AM	NOON	PM
	0	0	0
1	6	0	1
	0	0	0

DAY: Tuesday

PROJECT#: 16-8004-001 N/S Street: Piilani Hwy E/W Street: Ohukai Rd DATE: 1/12/2016 CITY:

Kihei

A M **PEDESTRIANS**

TEDESTRIA	_							
TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WEST	ΓLEG
IIIVIL	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	0	0	0	1	0	0
6:15 AM	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	1	0	0	0
6:45 AM	0	0	0	0	0	6	0	0
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	1	0	0
7:30 AM	1	1	0	0	0	0	0	0
7:45 AM	0	0	0	0	2	0	0	0
8:00 AM	0	0	0	0	1	0	0	0
8:15 AM	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	1	1	0	0
8:45 AM	0	0	0	0	1	0	0	0
TOTALS	1	1	0	0	6	9	0	0

BIKES												
TIME		NB			SB			EB			WB	
IIIVIE	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	1	0	0	0
7:00 AM	0	0	0	0	0	1	0	1	0	0	3	0
7:15 AM	0	1	0	0	0	0	0	1	1	0	0	0
7:30 AM	0	1	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0
8:00 AM	0	0	0	0	0	0	0	1	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	4	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	1	0	0	0	2	0	0	2	0
TOTALS	0	2	Λ	1	Λ	1	Λ	5	2	_	10	Λ

ΡМ **PEDESTRIANS**

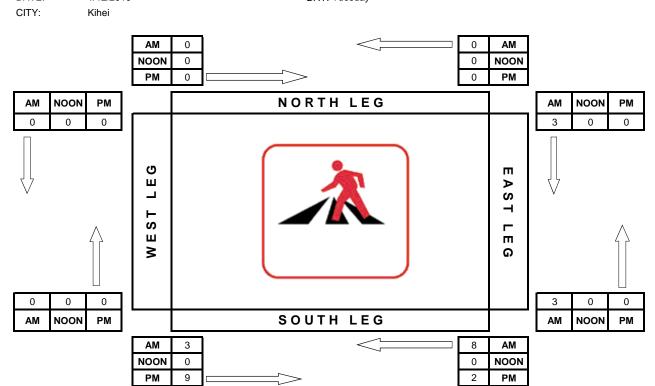
TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WES	T LEG
I I IVI L	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	1	1	0	0
3:15 PM	0	0	0	0	1	0	0	0
3:30 PM	0	0	0	0	0	1	0	0
3:45 PM	0	0	0	0	0	1	0	0
4:00 PM	0	0	0	0	0	0	0	0
4:15 PM	1	0	0	0	1	0	0	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	1	0	0	0	0	1	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	1	0	0	3	2	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	2	1	0	0	6	6	0	0

TIME		NB			SB			EB			WB	
I I IVI E	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	2	0
3:30 PM	0	0	0	0	0	0	1	0	0	0	0	0
3:45 PM	0	0	0	1	0	1	0	1	0	0	1	0
4:00 PM	0	0	1	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	1	0	0	2	0	0	0	0
4:30 PM	0	0	0	0	2	0	0	1	0	0	0	0
4:45 PM	0	0	0	0	0	1	0	1	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	2	0	0	0	0
5:15 PM	0	1	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	1	0	0	0	0
5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0
TOTALS	0	1	1	1	4	2	1	Q.	0	0	ય	<u> </u>

Pedestrian Count Peak Hour

PROJECT#: 16-8004-002
N/S Street: Piilani Hwy
E/W Street: Kaiwahine St
DATE: 1/12/2016

	Start:	End:
AM	6:00	9:00
NOON		
PM	15:00	18:00

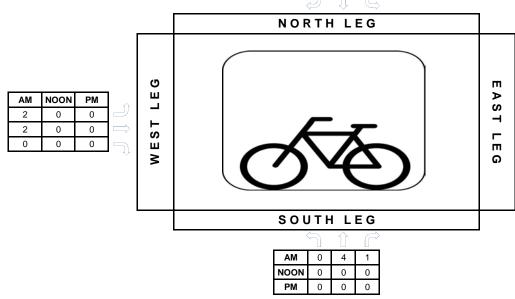


Bicycle Count Peak Hour

PROJECT#: 16-8004-002
N/S Street: Piilani Hwy
E/W Street: Kaiwahine St
DATE: 1/12/2016
CITY: Kihei

	Start:	End:
AM	6:00	9:00
NOON		
PM	15:00	18:00

AM	2	2	0
NOON	0	0	0
PM	1	7	0
-			



AM	NOON	PM
0	0	1
1	0	0
0	0	2

DAY: Tuesday

PROJECT#: 16-8004-002
N/S Street: Piilani Hwy
E/W Street: Kaiwahine St
DATE: 1/12/2016
CITY: Kihei

A M

PEDESTRIANS	,

TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WEST LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	0	1	0	0	0	0
6:15 AM	0	0	1	2	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0
6:45 AM	0	0	2	2	2	0	0	0
7:00 AM	0	0	0	2	0	3	0	0
7:15 AM	0	0	0	1	0	0	0	0
7:30 AM	0	0	1	3	1	0	0	0
7:45 AM	0	0	1	1	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	0	1	2	0	1	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	1	0	0	0	0	0
TOTALS	0	0	7	14	3	4	0	0

BIKES

BIKES												
TIME		NB			SB			EB			WB	
I I IVI L	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:00 AM	0	0	0	0	0	0	1	0	0	0	0	0
6:15 AM	0	0	0	0	0	1	0	0	0	0	1	0
6:30 AM	0	0	0	0	0	0	0	1	0	0	0	0
6:45 AM	0	1	0	0	1	0	0	1	0	0	0	0
7:00 AM	0	3	1	0	1	1	2	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	1	0	0	0	0	0	0	0	0	0	1
8:00 AM	0	1	0	0	1	2	0	0	0	0	0	0
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	2	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	1	0	1	2	0	2	0	0	0	0	0
TOTALS	0	10	1	1	5	4	5	2	0	0	1	1

P M PEDESTRIANS

TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WEST LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	2	0	0	0	0	0
3:15 PM	0	0	3	0	0	0	0	0
3:30 PM	0	0	0	2	0	0	0	0
3:45 PM	0	0	4	0	0	0	0	0
4:00 PM	0	0	1	0	0	0	0	0
4:15 PM	0	0	1	0	0	2	0	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	0	2	0	0	0	0	0
5:00 PM	0	0	3	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	1	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	0	0	16	3	0	2	0	0

	TIME		NB			SB			EB			WB	
	TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
•	3:00 PM	0	0	0	0	1	0	0	0	0	0	0	0
	3:15 PM	0	2	1	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	1	0	0	1	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	1	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	2	0	0
	4:30 PM	0	0	0	0	4	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	1	0	0	0	0	0	0	1
	5:00 PM	0	0	0	0	2	1	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	2	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	1	0	0	0	0
	TOTALS	0	2	1	0	11	1	0	2	0	2	0	1

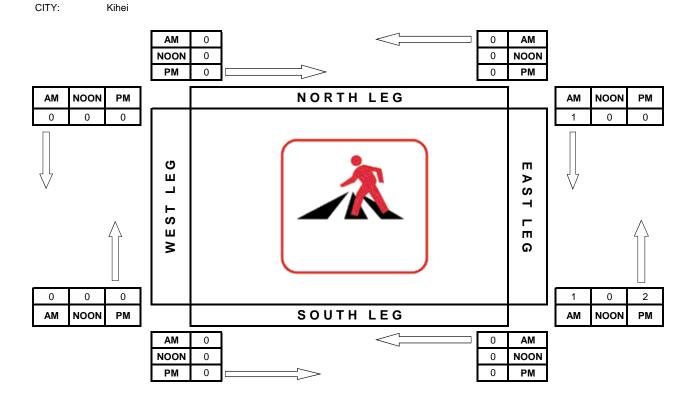
Pedestrian Count Peak Hour

PROJECT#: 16-8004-003

N/S Street: Piilani Hwy/Mokulele Hwy

E/W Street: N Kihei Rd DATE: 1/12/2016

	Start:	End:
AM	6:00	9:00
NOON		
PM	15:00	18:00



Bicycl

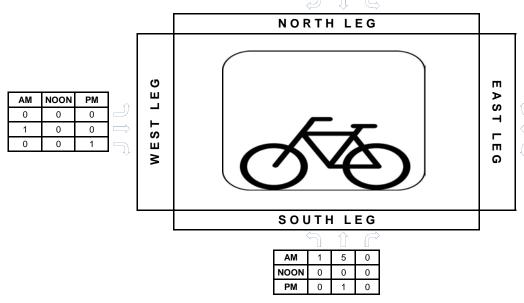
PROJECT#: 16-8004-003

N/S Street: Piilani Hwy/Mokulele Hwy

N Kihei Rd E/W Street: DATE: 1/12/2016 CITY: Kihei

le Count Peak Hour		Start:	End:
	AM	6:00	9:00
	NOON		
	PM	15:00	18:00

AM	1	2	0
NOON	0	0	0
PM	1	6	0



AM	NOON	PM
0	0	0
0	0	0
Ω	0	Ο

DAY: Tuesday

PROJECT#: 16-8004-003 N/S Street: Piilani Hwy/Mokulele Hwy E/W Street: N Kihei Rd

DATE: 1/12/2016 CITY: Kihei

A M
PEDESTRIANS

FEDESTRIANS											
TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WES	ΓLEG			
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB			
6:00 AM	0	0	0	0	0	0	0	0			
6:15 AM	0	0	0	0	0	0	0	0			
6:30 AM	0	0	0	0	0	0	0	0			
6:45 AM	0	0	0	0	1	0	0	0			
7:00 AM	0	0	0	0	0	1	0	0			
7:15 AM	0	0	0	0	0	0	0	0			
7:30 AM	0	0	0	0	0	0	0	0			
7:45 AM	0	0	0	0	0	0	0	0			
8:00 AM	0	0	0	0	0	0	0	0			
8:15 AM	0	0	0	0	0	0	0	0			
8:30 AM	0	0	0	0	1	0	0	0			
8:45 AM	0	0	0	0	0	0	0	0			
TOTALS	0	0	0	0	2	1	0	0			

BIKES												
TIME		NB			SB			EB			WB	
IIIVIE	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	1	0	0	1	0	0	0
6:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
7:00 AM	1	2	0	0	1	0	0	0	1	0	0	0
7:15 AM	0	1	0	0	0	0	0	1	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	1	0	0	0	0	0
8:00 AM	1	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	1	0	1	0	0	0	0
8:30 AM	0	3	0	0	1	0	0	0	0	0	0	0
8:45 AM	0	2	0	0	1	0	0	0	0	0	0	0
TOTALS	2	0	Λ	Λ	2	2	1	2	2	_	_	Λ

ΡМ PEDESTRIANS

TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WES	ΓLEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	1	0	0
4:45 PM	0	0	0	0	1	0	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	1	0	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	0	0	0	0	2	1	0	0

TIME		NB			SB			EB			WB	
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	1	0	0	0	0	0	0	0	0	0	0
3:15 PM	2	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	1	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	3	1	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	1	0	0	0
4:45 PM	0	0	0	0	1	0	0	0	0	0	0	0
5:00 PM	0	1	0	0	2	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	1	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	2	٧	0	0	7	1	0	0	1	0	0	0

Pedestrian Count Peak Hour

PROJECT#: 16-8004-004
N/S Street: S Kihei Rd
E/W Street: N Kihei Rd
DATE: 1/12/2016

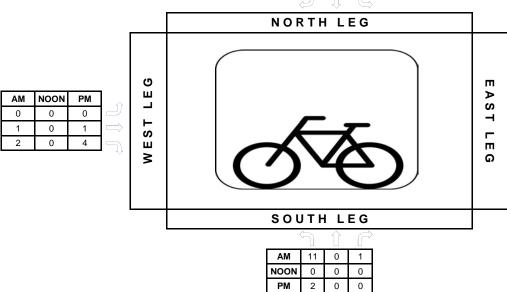
DATE:	1/12/2016 Kihei	DAY: Tuesday		1 111	10.00	10.00
	AI NO		AM NOON PM			
AM NOON	РМ	NORTH LEG		AM	NOON	PM
0 0	0			0	0	0
			EAST LEG		T 0	
AM NOON		SOUTH LEG		AM	NOON	PM
	AI NO	1 0	AM NOON PM		1	

Bicycle Count Peak Hour

PROJECT#: 16-8004-004
N/S Street: S Kihei Rd
E/W Street: N Kihei Rd
DATE: 1/12/2016
CITY: Kihei

	Start:	End:
AM	6:00	9:00
NOON		
PM	15:00	18:00

AM	0	0	0
NOON	0	0	0
PM	0	0	0
-			



AM	NOON	PM
0	0	0
3	0	3
0	0	0

DAY: Tuesday

PROJECT#: 16-8004-004
N/S Street: S Kihei Rd
E/W Street: N Kihei Rd
DATE: 1/12/2016
CITY: Kihei

A M

PEDESTRIANS

TIME	NORT	H LEG	SOUT	SOUTH LEG		EAST LEG		ΓLEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	0	1	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0
ZOTALS	0	0	1	0	0	0	0	0

RIKES

BIKES												
TIME		NB	•	,	SB	•	·	EB	,		WB	Ť
IIIVIE	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	1	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	2	0	0	0	0	0	0	0	1	0	1	0
7:45 AM	2	0	0	0	0	0	0	0	1	0	0	0
8:00 AM	3	0	1	0	0	0	0	1	0	0	1	0
8:15 AM	4	0	0	0	0	0	0	0	0	0	1	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	1	0
8:45 AM	0	0	0	0	0	0	0	0	1	0	0	0
TOTALS	11	0	2	0	0	0	0	1	3	0	4	0

P M PEDESTRIANS

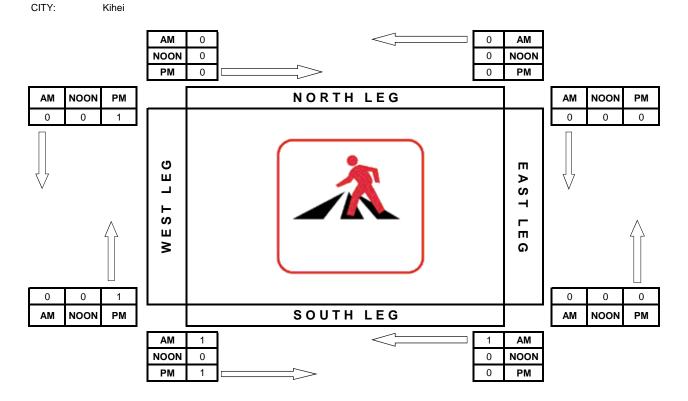
TIME	NORT	H LEG	SOUT	H LEG	EAST LEG		WEST LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	0	0	0	0	0	0	0	0

TIME		NB			SB		EB			WB		
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	2	0	0	0	0	0	0	1	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	1	0	0	2	0
3:45 PM	0	0	0	0	0	0	0	0	3	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	1	0	0	0
4:15 PM	2	0	0	0	0	0	0	0	0	0	1	0
4:30 PM	0	0	0	0	0	0	0	1	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	2	0	0	0
TOTALS	4	0	0	0	0	0	0	3	6	0	3	0

Pedestrian Count Peak Hour

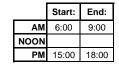
PROJECT#: 16-8004-005 N/S Street: Pillani Hwy E/W Street: Pikea Ave DATE: 1/12/2016

E: 1/12/2016	DAY: Tuesday
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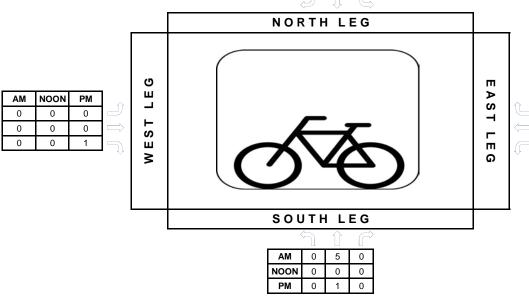


Bicycle Count Peak Hour

PROJECT#: 16-8004-005
N/S Street: Pillani Hwy
E/W Street: Pikea Ave
DATE: 1/12/2016
CITY: Kihei



AM	0	1	0
NOON	0	0	0
PM	3	3	0



AM	NOON	PM
0	0	0
0	0	0
0	0	0

DAY: Tuesday

PROJECT#: 16-8004-005 N/S Street: Piilani Hwy E/W Street: Pikea Ave DATE: 1/12/2016 CITY: Kihei

A M

PEDESTRIANS

TIME	NORT	H LEG	SOUT	TH LEG EAS		LEG	WEST LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0
6:30 AM	0	0	1	1	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	1	0	0	0	0	0
TOTALS	0	0	2	1	0	0	0	0

BIKES

DIKLS	1	NB		1	SB			EB			WB	
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	2	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	1	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	3	0	0	1	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
TOTALS	0	9	0	0	2	0	0	0	0	0	0	0

ΡМ PEDESTRIANS

TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WES	ΓLEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	1	0
4:00 PM	0	0	1	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	0	0	1	0	0	0	1	1

DIKLO												
TIME		NB			SB			EB			WB	
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	1	0	0	0	0	0	0	0
3:15 PM	0	2	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	2	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	2	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	1	0	0	0	0	0	0
4:30 PM	0	0	0	0	3	1	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	1	3	0	0	0	0	0	0
5:30 PM	0	0	0	0	2	0	0	0	0	0	0	0
5:45 PM	0	1	0	0	0	0	0	0	1	0	0	0
TOTALS	0	5	0	0	9	5	0	0	1	0	0	0

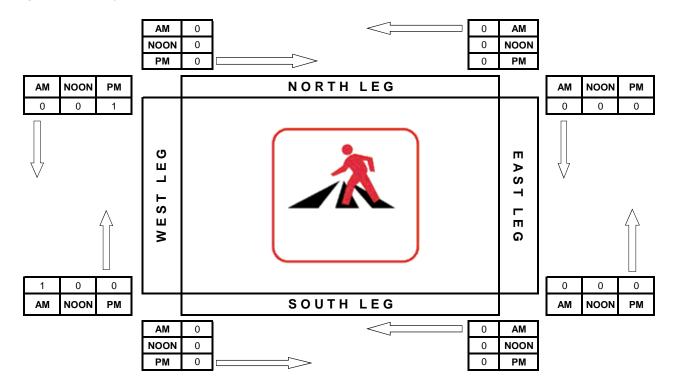
Pedestrian Count Peak Hour

PROJECT#: 16-8004-006
N/S Street: Piilani Hwy
E/W Street: Kaonoulu St
DATE: 1/12/2016

Start:

End:

CITY: Kihei

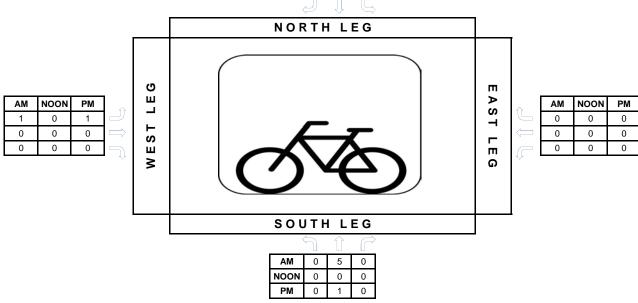


Bicycle Count Peak Hour

PROJECT#: 16-8004-006 N/S Street: Piilani Hwy E/W Street: Kaonoulu St DATE: 1/12/2016 CITY: Kihei

	Start:	End:
AM	6:00	9:00
NOON		
PM	15:00	18:00

AM	0	3	0
NOON	0	0	0
PM	1	6	0



0	0	0
0	0	0
0	0	0

PROJECT#: 16-8004-006
N/S Street: Pillani Hwy
E/W Street: Kaonoulu St
DATE: 1/12/2016
CITY: Kihei

DAY: Tuesday

ΑM

PEDESTRIANS

TIME	NORT	H LEG	SOUT	H LEG	EAST	EAST LEG		ΓLEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	1	0
8:15 AM	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0
TOTALS	0	0	0	0	0	0	1	0

BIKES

BIKES												
TIME		NB			SB			EB			WB	
LINE	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	3	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	1	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0
8:15 AM	0	4	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	1	0	0	2	0	1	0	0	0	0	0
TOTALS	0	9	0	0	4	0	1	0	0	0	0	0

P M

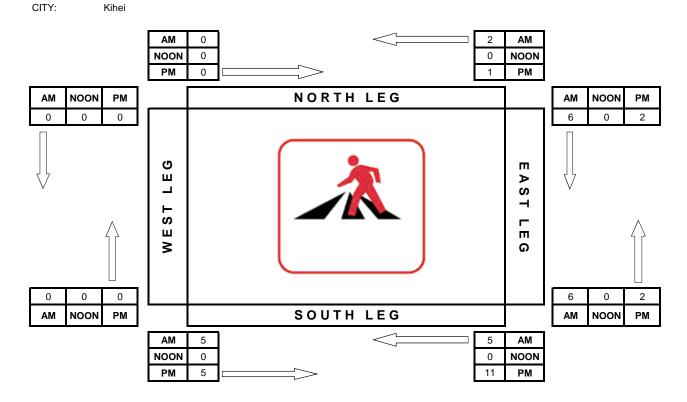
PEDESTRIANS

TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WEST LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	1
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	0	0	0	0	0	0	0	1

TIME		NB			SB			EB			WB	
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	1	0	0	0	0	0	0	0
3:15 PM	0	2	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	1	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	1	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	2	0	1	0	0	0	0	0
4:45 PM	0	0	0	0	2	0	0	0	0	0	0	0
5:00 PM	0	1	0	0	2	1	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	1	0	0	0	0	0	0	0
5:45 PM	0	1	0	0	0	0	1	0	0	0	0	0
TOTALS	0	5	0	0	0	1	2	0	0	0	0	0

Pedestrian Count Peak Hour

PROJECT#: 16-8004-007
N/S Street: S Kihei Rd
E/W Street: Kaonoulu St
DATE: 1/12/2016

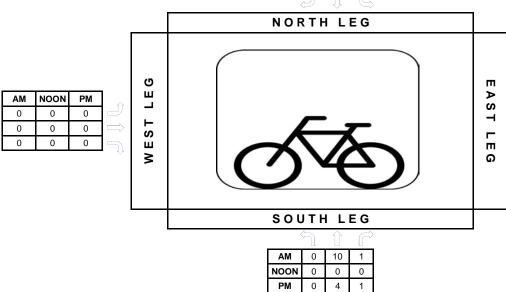


Bicycle Count Peak Hour

PROJECT#: 16-8004-007
N/S Street: S Kihei Rd
E/W Street: Kaonoulu St
DATE: 1/12/2016
CITY: Kihei

	Start:	End:
AM	6:00	9:00
NOON		
PM	15:00	18:00

AM	0	8	0
NOON	0	0	0
PM	0	6	1



	AM	NOON	PM
	0	0	0
1	0	0	0
	2	0	2

DAY: Tuesday

PROJECT#: 16-8004-007
N/S Street: S Kihei Rd
E/W Street: Kaonoulu St
DATE: 1/12/2016
CITY: Kihei

A M

PEDESTRIANS

TIME	NORT	H LEG	SOUT	SOUTH LEG		EAST LEG		ΓLEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	1	0	0
6:30 AM	0	2	1	1	4	2	0	0
6:45 AM	0	0	0	1	0	1	0	0
7:00 AM	0	0	1	1	1	1	0	0
7:15 AM	0	0	3	2	1	2	0	0
7:30 AM	0	0	1	3	0	4	0	0
7:45 AM	0	0	1	0	0	1	0	0
8:00 AM	0	0	1	0	1	2	0	0
8:15 AM	0	0	0	0	0	1	0	0
8:30 AM	0	0	0	0	3	2	0	0
8:45 AM	0	1	1	0	1	0	0	0
ZOTALS	0	2	0	Ω	11	17	0	0

RIKES

BIKES												
TIME		NB	-		SB	-		EB			WB	
I I IVI E	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:00 AM	0	1	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	1	0	0	0	0	0	0	0	0	0
6:30 AM	0	1	0	0	2	0	0	0	0	1	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	3	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	4	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	4	0	0	2	0	0	0	0	0	0	0
7:45 AM	0	1	1	0	2	0	0	0	0	1	0	0
8:00 AM	0	4	0	0	1	0	0	0	0	1	0	0
8:15 AM	0	1	0	0	3	0	0	0	0	0	0	0
8:30 AM	0	4	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	2	0	0	0	0	0	0	0
TOTALS	0	23	2	0	12	0	0	0	0	3	0	0

P M PEDESTRIANS

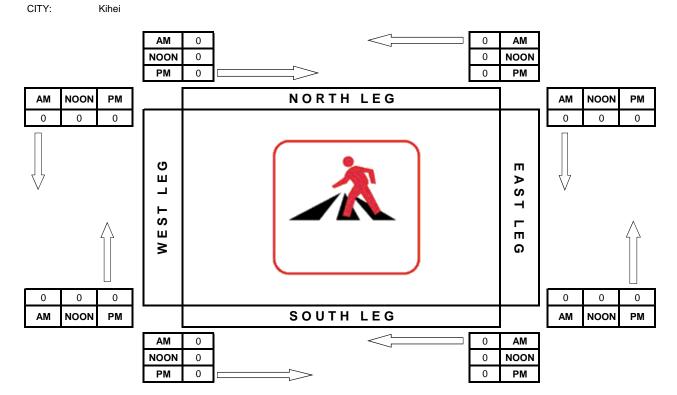
TIME	NORT	H LEG	SOUT	SOUTH LEG		EAST LEG		T LEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	2	0	0	0	0	0
3:15 PM	0	0	1	0	1	1	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	1	0	0	0	0
4:00 PM	0	0	2	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	1	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	5	0	2	0	0
5:30 PM	0	1	1	6	0	0	0	0
5:45 PM	0	0	4	0	2	0	0	0
TOTALS	0	1	10	13	3	3	0	0

TIME		NB			SB			EB			WB	
IIIVIE	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	2	0	0	1	0	0	0	0	1	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	2	0	0
3:30 PM	0	0	2	0	1	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	3	0	0	0	0	0	0	0
4:00 PM	0	2	0	0	1	0	0	0	0	1	0	0
4:15 PM	0	2	1	1	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	2	0	0	0	0	1	0	0
4:45 PM	0	2	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	2	0	1	0	0	0	0	1	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	1	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	3	0	0	0	0	0	0	0
TOTALS	0	8	5	1	13	0	0	0	0	6	0	1

Pedestrian Count Peak Hour

PROJECT#: 16-8004-008
N/S Street: Piilani Hwy
E/W Street: Kulanihakoi St
DATE: 1/12/2016

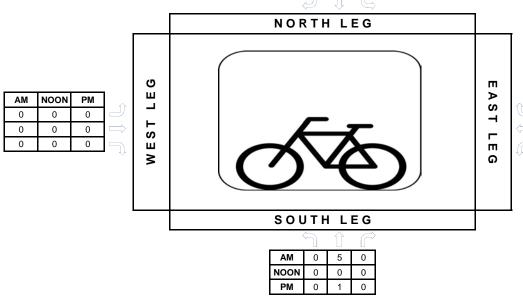
	Start:	End:
AM	6:00	9:00
NOON		
PM	15:00	18:00



Bicycle Count Peak Hour

PROJECT#: 16-8004-008
N/S Street: Piilani Hwy
E/W Street: Kulanihakoi St
DATE: 1/12/2016
CITY: Kihei

AM	0	4	0
NOON	0	0	0
PM	2	6	0
-			



AM	NOON	PM
0	0	0
0	0	0
0	0	0

DAY: Tuesday

PROJECT#: 16-8004-008 N/S Street: Piilani Hwy E/W Street: Kulanihakoi St DATE: 1/12/2016

CITY: Kihei

A M

PEDESTRIANS

TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WES	ΓLEG
TIME	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0
TOTALS	0	0	0	0	0	0	0	0

BIKES

	BIKES												
	TIME		NB			SB			EB			WB	
	IIIVIE	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
,	6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
	6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
	6:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
	7:00 AM	0	2	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	1	0	0	0	0	0	0	0
	7:30 AM	0	1	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0
	8:15 AM	0	4	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	1	0	0	3	0	0	0	0	0	0	0
	TOTALS	0	10	0	0	5	0	0	0	0	0	0	0

ΡМ PEDESTRIANS

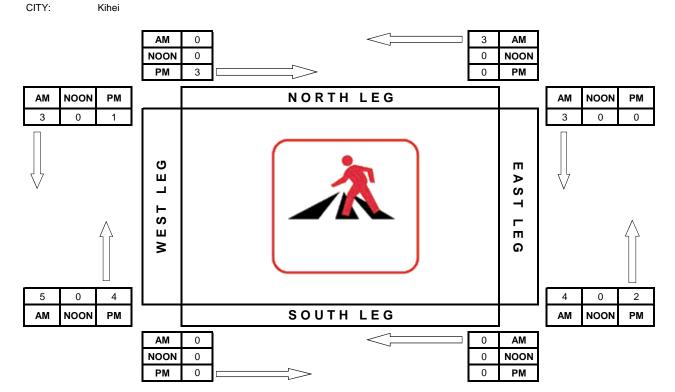
TIME	NORT	H LEG	SOUT	SOUTH LEG		EAST LEG		T LEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	0	0	0	0	0	0	0	0

DIKES		NID			CD						MA	
TIME	NB				SB			EB			WB	
I I IVI L	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	1	0	0	0	0	0	0	0
3:15 PM	0	2	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	1	0	0	0	0	0	0	1	0	0	0
3:45 PM	0	0	0	0	1	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	1	0	0	0	0	0	0	0
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	3	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	1	1	0	0	0	0	0	0
5:00 PM	0	0	0	0	1	1	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	1	0	0	0	0	0	0	0
5:45 PM	0	1	0	0	0	0	0	0	0	0	0	0
TOTALS	0	5	0	0	10	2	0	0	1	0	0	0

Pedestrian Count Peak Hour

PROJECT#: 16-8004-009
N/S Street: Kenolio St
E/W Street: Kaonoulu St
DATE: 1/12/2016

1/12/2016 DAY: Tuesday

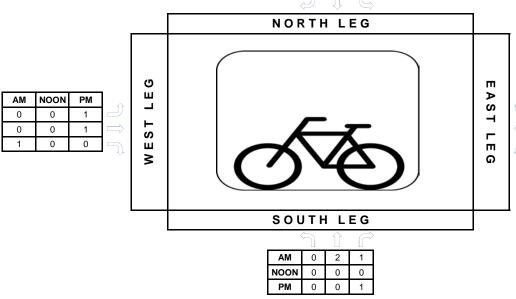


Bicycle Count Peak Hour

PROJECT#: 16-8004-009
N/S Street: Kenolio St
E/W Street: Kaonoulu St
DATE: 1/12/2016
CITY: Kihei

	Start:	End:
AM	6:00	9:00
NOON		
PM	15:00	18:00

AM	0	0	0
NOON	0	0	0
PM	0	0	0



AM	NOON	PM
0	0	1
0	0	0
0	0	1

PROJECT#: 16-8004-009 N/S Street: Kenolio St E/W Street: Kaonoulu St DATE: 1/12/2016 CITY: Kihei

DAY: Tuesday

A M
PEDESTRIANS

PEDESTRIANS								
TIME	NORTH LEG		SOUTH LEG		EAST	LEG	WES	Γ LEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	0	0	0	0	1	0
6:15 AM	0	0	0	0	0	0	1	0
6:30 AM	1	0	0	0	0	0	2	0
6:45 AM	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	1	0	0	1
7:15 AM	0	2	0	0	1	1	0	1
7:30 AM	0	1	0	0	0	0	1	1
7:45 AM	0	0	0	0	0	2	4	1
8:00 AM	0	1	0	0	0	1	0	0
8:15 AM	0	1	0	0	4	0	0	1
8:30 AM	0	1	0	0	0	0	0	0
8:45 AM	0	1	0	0	0	1	0	0
TOTALS	1	7	0	0	6	5	9	5

BIKES

DIKLS	NB				SB			EB		WB		
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	2	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	1	0	0	0	0	0	0	0
7:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	1	1	0	0	0	0	0	1	0	0	0
TOTALS	0	3	1	0	3	0	0	0	1	0	0	0

ΡМ PEDESTRIANS

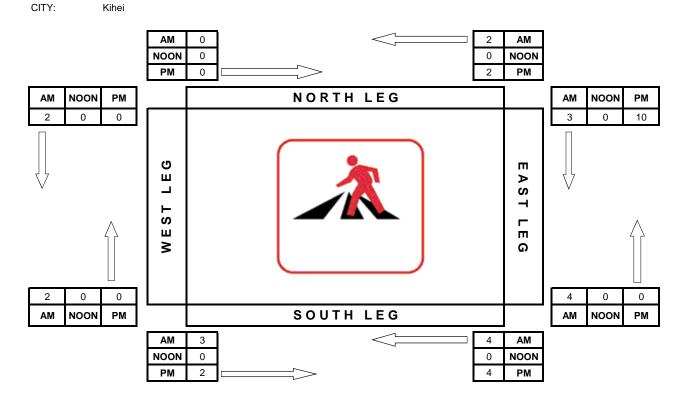
TIME	NORTH LEG		SOUT	SOUTH LEG		LEG	WEST LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	0	0	0	0	0	1	0	0
3:15 PM	0	0	0	0	0	3	0	0
3:30 PM	0	0	0	0	1	0	2	0
3:45 PM	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	1	1	0	0
4:15 PM	0	0	0	0	0	0	2	1
4:30 PM	1	0	0	0	1	0	1	0
4:45 PM	1	0	0	0	0	0	0	0
5:00 PM	1	0	0	0	1	0	1	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	2	0
5:45 PM	0	0	0	0	0	0	2	0
TOTALS	3	0	0	0	4	5	10	1

TIME	NB				SB		EB				WB	
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	1	0	0	0	0	1	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	1	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	1	0	1	0	0
5:45 PM	0	0	1	0	0	0	0	0	0	0	0	0
TOTALS	Λ	1	1	1	Λ	Λ	1	1	1	1	Λ.	1

Pedestrian Count Peak Hour

PROJECT#: 16-8004-010
N/S Street: Alulike St
E/W Street: Kaonoulu St
DATE: 1/12/2016

DAY: T	uesday
--------	--------

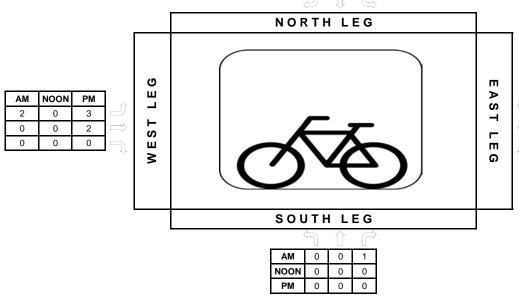


Bicycle Count Peak Hour

PROJECT#: 16-8004-010
N/S Street: Alulike St
E/W Street: Kaonoulu St
DATE: 1/12/2016
CITY: Kihei

	Start:	End:
AM	6:00	9:00
NOON		
PM	15:00	18:00

AM	1	0	0
NOON	0	0	0
PM	1	0	0



AM	NOON	PM
0	0	0
0	0	0
0	0	0

DAY: Tuesday

PROJECT#: 16-8004-010 N/S Street: Alulike St E/W Street: Kaonoulu St DATE: 1/12/2016 CITY:

Kihei

A M

PEDESTRIANS

TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WES	ΓLEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	0	0	0	0	2	0
6:15 AM	0	0	0	0	0	0	0	1
6:30 AM	0	1	0	0	0	0	0	0
6:45 AM	1	0	0	0	0	0	0	0
7:00 AM	0	1	0	0	1	1	0	1
7:15 AM	0	0	1	2	3	1	1	0
7:30 AM	0	0	1	0	0	0	0	1
7:45 AM	0	2	0	1	1	1	0	0
8:00 AM	0	0	1	1	0	1	1	1
8:15 AM	0	0	1	0	1	0	0	0
8:30 AM	0	0	1	0	1	2	0	0
8:45 AM	1	0	0	0	0	1	0	0
TOTALS	2	4	5	4	7	7	4	4

BIKES

BIKES												
TIME		NB			SB			EB			WB	
IIIVIE	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	1	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	1	1	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	1	0	0	0	0	0
8:30 AM	0	0	1	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	0	0	1	0	0	1	3	0	0	0	0	0

ΡМ PEDESTRIANS

TIME	NORTH LEG		SOUT	SOUTH LEG		LEG	WEST LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
3:00 PM	1	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	1	0
3:30 PM	1	1	0	0	0	0	0	0
3:45 PM	0	1	0	0	0	0	0	0
4:00 PM	0	0	2	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	3	0	0
5:15 PM	0	1	1	4	0	2	0	0
5:30 PM	0	1	0	0	0	2	0	0
5:45 PM	0	0	1	0	0	3	0	0
TOTALS	2	4	4	4	0	10	1	0

TIME	NB				SB		EB				WB		
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
3:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	
3:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	
4:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	
4:15 PM	0	0	0	0	0	0	1	1	0	0	0	0	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	
5:00 PM	0	0	0	0	0	1	2	1	0	0	0	0	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	
5:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	0	0	0	0	0	4	3	3	0	0	0	0	

Pedestrian Count Peak Hour

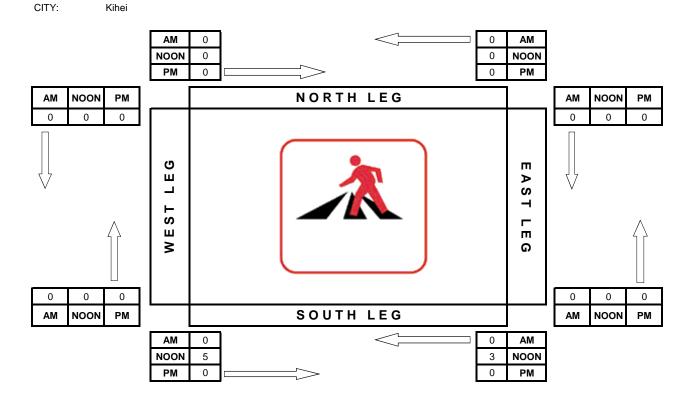
PROJECT#: 16-8004-001 N/S Street: Piilani Hwy E/W Street: Ohukai Rd DATE: 1/16/2016
 Start:
 End:

 AM
 NOON

 10:00
 14:00

 PM
 14:00

TE: 1/16/2016 DAY: Saturday



Bicycle Count Peak Hour

PROJECT#: 16-8004-001
N/S Street: Piilani Hwy
E/W Street: Ohukai Rd
DATE: 1/16/2016
CITY: Kihei

Peak Hour		Start:	End:
	AM		
	NOON	10:00	14:00
	PM		

NOON

1

0

PM

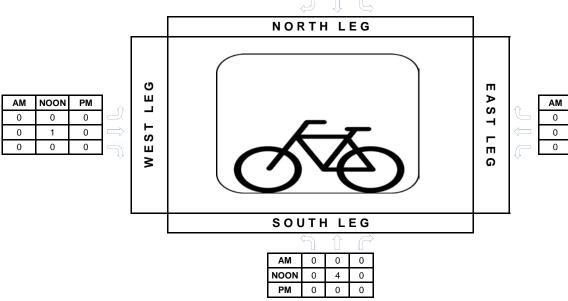
0

0

0

DAY: Saturday

AM	0	0	0
NOON	0	5	1
PM	0	0	0
_			



PROJECT#: 16-8004-001 N/S Street: Piilani Hwy E/W Street: Ohukai Rd DATE: 1/16/2016 CITY: Kihei

DAY: Saturday

NOON

PEDESTRIANS

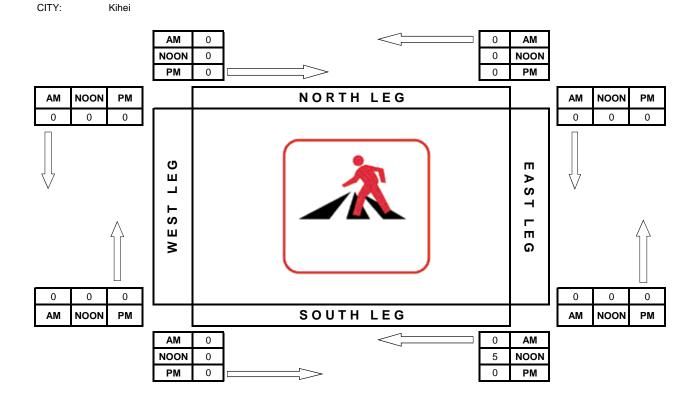
TIME	NORTH LEG		SOUT	H LEG	EAST LEG		WEST LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
10:00 AM	0	0	1	1	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	1	0	0	0	0
10:45 AM	0	0	1	0	0	0	0	0
11:00 AM	0	0	1	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0
11:30 AM	0	0	1	2	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0
12:00 PM	0	0	3	0	0	0	0	0
12:15 PM	0	0	1	0	0	0	0	0
12:30 PM	0	0	1	0	0	0	0	0
12:45 PM	0	0	0	3	0	0	0	0
1:00 PM	0	0	2	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0
TOTALS	0	0	11	7	0	0	0	0

DIKLS		NB			SB			EB			WB	
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
10:00 AM	0	2	0	0	1	0	0	1	0	0	1	0
10:15 AM	0	2	0	0	0	0	0	1	0	0	0	0
10:30 AM	0	2	0	0	1	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	1	4	0	0	0	0	0	1	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	2	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	1	0	0	0	0	0	0	1
12:00 PM	0	0	0	0	0	0	0	0	0	0	1	0
12:15 PM	0	0	0	0	1	0	0	1	1	0	1	0
12:30 PM	0	0	0	0	1	0	0	0	0	0	1	0
12:45 PM	0	1	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	1	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	0	8	0	1	11	0	0	3	1	0	5	1

Pedestrian Count Peak Hour

PROJECT#: 16-8004-002 N/S Street: Piilani Hwy E/W Street: Kaiwahine St DATE: 1/16/2016

ATE: 1/16/2016 [DAY: Saturday
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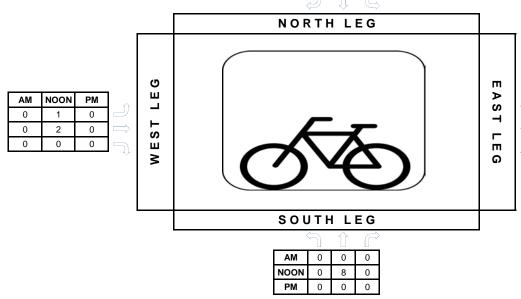
Bicycle Count Peak Hour

PROJECT#: 16-8004-002
N/S Street: Piilani Hwy
E/W Street: Kaiwahine St
DATE: 1/16/2016
CITY: Kihei

	Start:	End:
AM		
NOON	10:00	14:00
PM		

DAY: Saturday

AM	0	0	0
NOON	2	2	2
PM	0	0	0
-			



AM	NOON	PM		
0	0	0		
0	1	0		
0	0	0		

PROJECT#: 16-8004-002
N/S Street: Pillani Hwy
E/W Street: Kaiwahine St
DATE: 1/16/2016
CITY: Kihei

DAY: Saturday

NOON

PEDESTRIANS

7 2 3 2 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
10:00 AM	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	1	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	3	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	2	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	1	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0
12:45 PM	0	0	1	0	0	0	0	0
1:00 PM	0	0	1	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	1	0	0	1	0
TOTALS	0	0	2	8	0	0	1	0

DIKLS	NB			SB			EB			WB		
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
10:00 AM	0	4	0	2	0	0	0	1	0	0	1	0
10:15 AM	0	2	0	0	0	2	0	0	0	0	0	0
10:30 AM	0	2	0	0	1	0	1	1	0	0	0	0
10:45 AM	0	0	0	0	1	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	4	1	0	0	0	0	1	0
11:15 AM	0	0	0	0	2	0	0	1	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	1	0	0	1	0	0	1	0	0	0	0
12:00 PM	0	0	0	0	1	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	1	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	1	0	1	0	0	0	0	0	0	1	0
1:00 PM	0	0	0	0	0	1	0	0	0	0	2	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	0	10	0	3	11	4	1	4	0	0	5	0

Pedestrian Count Peak Hour

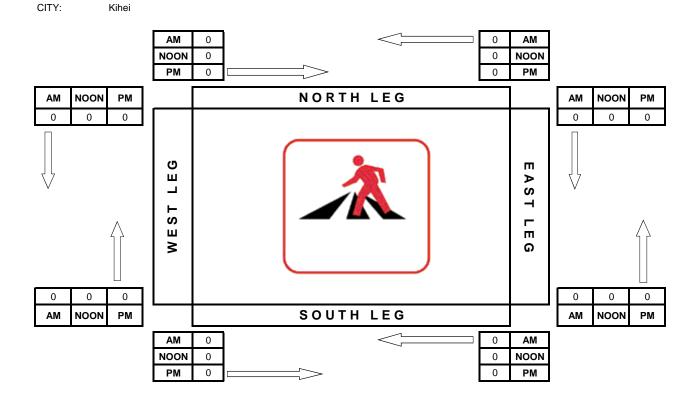
PROJECT#: 16-8004-003

N/S Street: Piilani Hwy/Mokulele Hwy

E/W Street: N Kihei Rd DATE: 1/16/2016

DAY: Saturday

	Start:	End:
AM		
NOON	10:00	14:00
PM		

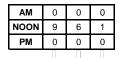


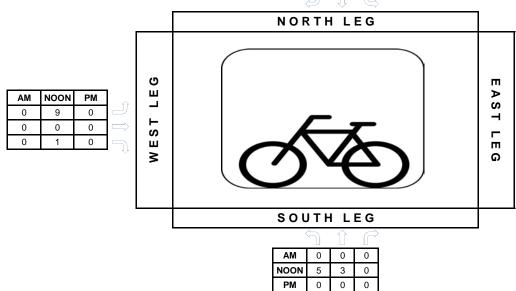
Bicycle Count Peak Hour

PROJECT#: 16-8004-003

N/S Street: Piilani Hwy/Mokulele Hwy

E/W Street: N Kihei Rd DATE: 1/16/2016 CITY: Kihei





AM	NOON	PM
0	0	0
0	2	0
0	0	0

PROJECT#: 16-8004-003 N/S Street: Piilani Hwy/Mokulele Hwy E/W Street: N Kihei Rd

1/16/2016 CITY: Kihei

DAY: Saturday

NOON

PEDESTRIANS

1 EBECTATION								
TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WES	T LEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
10:00 AM	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0
TOTALS	0	0	0	0	0	0	0	0

DIKLO												
TIME		NB			SB			EB			WB	
IIIVIE	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
10:00 AM	5	0	0	1	0	3	6	0	0	0	0	0
10:15 AM	0	0	0	0	2	6	3	0	0	0	2	0
10:30 AM	0	3	0	0	0	0	0	0	1	0	0	0
10:45 AM	0	0	0	0	4	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	2	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	2	0	0	0	0	0	0
11:45 AM	0	0	1	0	0	0	0	0	1	0	0	0
12:00 PM	0	0	1	0	2	0	0	0	0	0	0	0
12:15 PM	0	1	0	0	0	0	0	0	1	0	0	0
12:30 PM	0	0	0	0	2	0	0	0	0	0	0	0
12:45 PM	0	1	0	0	1	0	0	0	0	2	0	0
1:00 PM	0	0	0	0	2	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	1	0	1	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	2	1	1	0	0	0	0	0
TOTALS	5	5	2	1	18	12	11	0	3	2	2	0

Pedestrian Count Peak Hour

PROJECT#: 16-8004-004
N/S Street: S Kihei Rd
E/W Street: N Kihei Rd
DATE: 1/16/2016

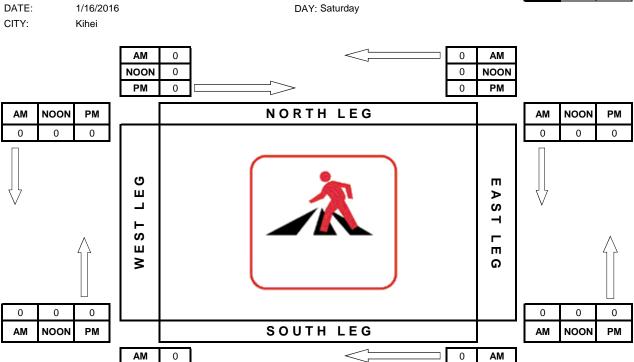
NOON

ΡМ

1

0

	Start:	End:
AM		
NOON	10:00	14:00
PM		



1

0

NOON

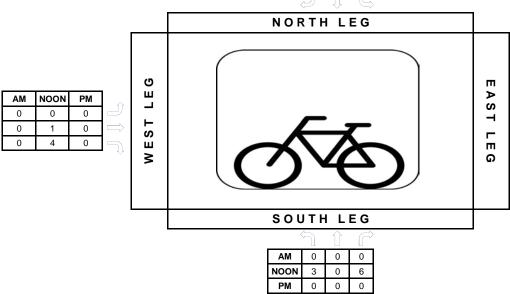
PΜ

Bicycle Count Peak Hour

PROJECT#: 16-8004-004
N/S Street: S Kihei Rd
E/W Street: N Kihei Rd
DATE: 1/16/2016
CITY: Kihei

	Start:	End:
AM		
NOON	10:00	14:00
PM		

AM	0	0	0
NOON	0	0	0
PM	0	0	0



AM	NOON	PM
0	0	0
0	3	0
0	0	0

PROJECT#: 16-8004-004
N/S Street: S Kihei Rd
E/W Street: N Kihei Rd
DATE: 1/16/2016
CITY: Kihei

DAY: Saturday

NOON

PEDESTRIANS

125207777110									
TIME	NORT	NORTH LEG		H LEG	EAST	EAST LEG		WEST LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB	
10:00 AM	0	0	0	0	0	0	0	0	
10:15 AM	0	0	1	1	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	
1:00 PM	0	0	0	0	0	0	0	0	
1:15 PM	0	0	0	0	0	0	0	0	
1:30 PM	0	0	0	0	0	0	0	0	
1:45 PM	0	0	0	0	0	0	0	0	
TOTALS	0	0	1	1	0	0	0	0	

DIKES		NB			SB			EB			WB	
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
10:00 AM	2	0	5	0	0	0	0	1	0	0	3	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	1	0	0	0	0	0	1	0	0	0
10:45 AM	1	0	0	0	0	0	0	0	3	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	1	1	0
11:45 AM	0	0	0	0	0	0	0	1	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	3	0	0	0
12:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	1	0	0	0
1:00 PM	0	0	1	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	1	0	1	0	0
TOTALS	3	0	7	0	0	0	0	4	8	2	4	0

Pedestrian Count Peak Hour

PROJECT#: 16-8004-005 N/S Street: Pillani Hwy E/W Street: Pikea Ave DATE: 1/16/2016

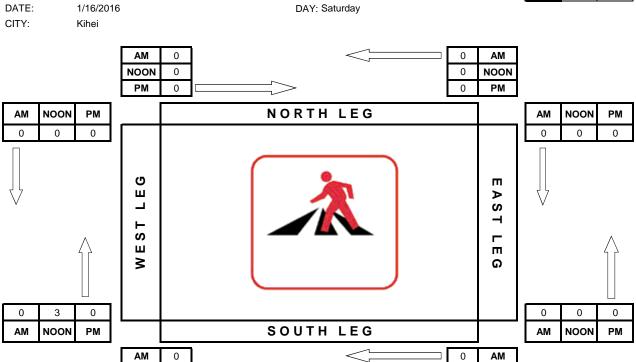
NOON

ΡМ

0

0

	Start:	End:
AM		
NOON	10:00	14:00
PM		



2

0

NOON

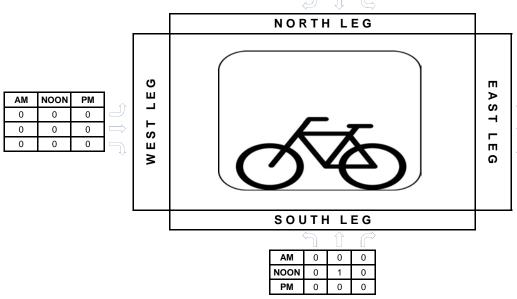
PΜ

Bicycle Count Peak Hour

PROJECT#: 16-8004-005
N/S Street: Piilani Hwy
E/W Street: Pikea Ave
DATE: 1/16/2016
CITY: Kihei

	Start:	End:
AM		
NOON	10:00	14:00
PM		

AM	0	0	0
NOON	0	8	0
PM	0	0	0



AM	NOON	PM
0	0	0
0	0	0
0	0	0

PROJECT#: 16-8004-005 N/S Street: Pillani Hwy E/W Street: Pikea Ave DATE: 1/16/2016 CITY: Kihei

DAY: Saturday

NOON

PEDESTRIANS

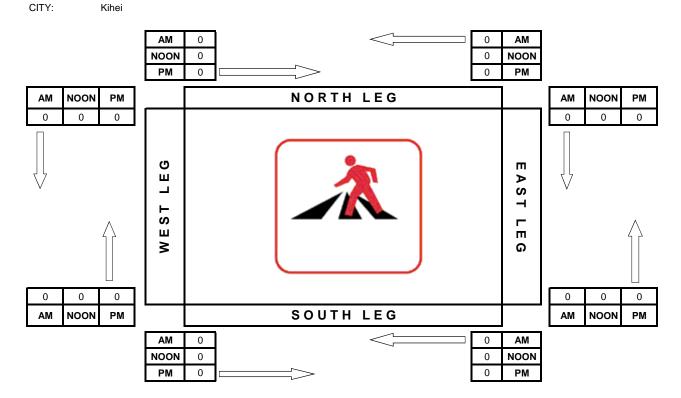
	TEDESTRIANS									
TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WES	ΓLEG		
I I IVI L	EB	WB	EB	WB	NB	SB	NB	SB		
10:00 AM	0	0	1	0	0	0	0	1		
10:15 AM	0	0	1	0	0	0	0	0		
10:30 AM	0	0	0	0	0	0	0	0		
10:45 AM	0	0	0	0	0	0	0	0		
11:00 AM	0	0	0	0	0	0	0	0		
11:15 AM	0	0	0	2	0	0	2	0		
11:30 AM	0	0	0	0	0	0	0	0		
11:45 AM	0	0	0	0	0	0	1	0		
12:00 PM	0	0	0	0	0	0	0	0		
12:15 PM	0	0	0	0	0	0	0	0		
12:30 PM	0	0	0	0	0	0	0	0		
12:45 PM	0	0	0	0	0	0	0	0		
1:00 PM	0	0	0	0	0	0	0	0		
1:15 PM	0	0	0	0	0	0	0	0		
1:30 PM	0	0	0	0	0	0	0	0		
1:45 PM	0	0	0	0	0	0	0	0		
TOTALS	0	0	2	2	0	0	3	1		

NB NB					SB		EB			WB		
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
10:00 AM	0	2	0	0	1	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	1	0	0	2	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	1	0	0	5	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	2	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	1	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	1	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	1	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	0	6	0	0	11	0	0	0	0	0	0	0

Pedestrian Count Peak Hour

PROJECT#: 16-8004-006
N/S Street: Piilani Hwy
E/W Street: Kaonoulu St
DATE: 1/16/2016

E: 1/16/2016 DAY: Saturday

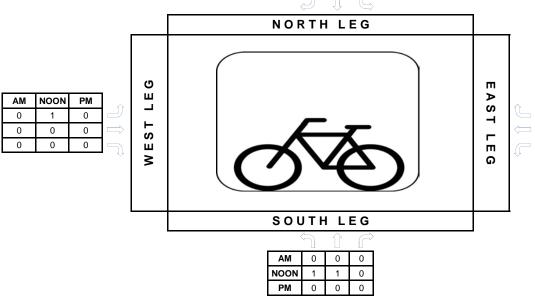


Bicycle Count Peak Hour

PROJECT#: 16-8004-006
N/S Street: Piilani Hwy
E/W Street: Kaonoulu St
DATE: 1/16/2016
CITY: Kihei

	Start:	End:
AM		
NOON	10:00	14:00
PM		

AM	0	0	0
NOON	0	8	0
PM	0	0	0



	AM	AM NOON			
	0	0	0		
]	0	0	0		
	0	0	0		

PROJECT#: 16-8004-006
N/S Street: Pillani Hwy
E/W Street: Kaonoulu St
DATE: 1/16/2016
CITY: Kihei

DAY: Saturday

NOON

PEDESTRIANS

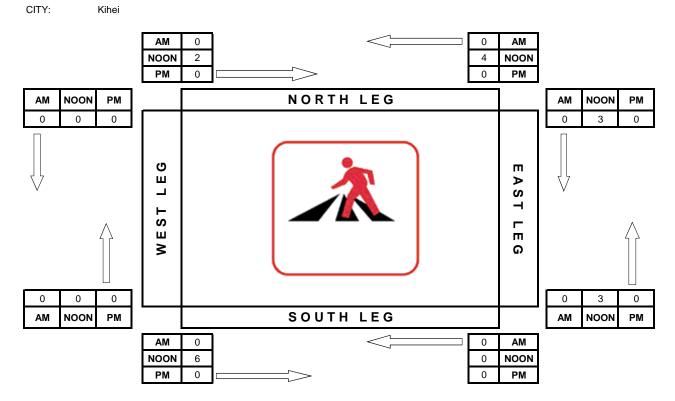
125207777110									
TIME	, NORT		SOUT	H LEG	EAST	LEG	WES	T LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB	
10:00 AM	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	
11:15 AM	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	
11:45 AM	0	0	0	0	0	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	
1:00 PM	0	0	0	0	0	0	0	0	
1:15 PM	0	0	0	0	0	0	0	0	
1:30 PM	0	0	0	0	0	0	0	0	
1:45 PM	0	0	0	0	0	0	0	0	
TOTALS	0	0	0	0	0	0	0	0	

NB					SB			EB			WB		
TIME	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
10:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	
10:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	
10:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	4	0	0	0	0	0	0	0	
11:15 AM	0	1	0	0	0	0	1	0	0	0	0	0	
11:30 AM	1	0	0	0	2	0	0	0	0	0	0	0	
11:45 AM	0	0	0	0	2	0	0	0	0	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	2	0	0	3	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	
1:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	1	6	0	0	13	0	1	0	0	0	0	0	

Pedestrian Count Peak Hour

PROJECT#: 16-8004-007
N/S Street: S Kihei Rd
E/W Street: Kaonoulu St
DATE: 1/16/2016

	Start:	End:
AM		
NOON	10:00	14:00
PM		

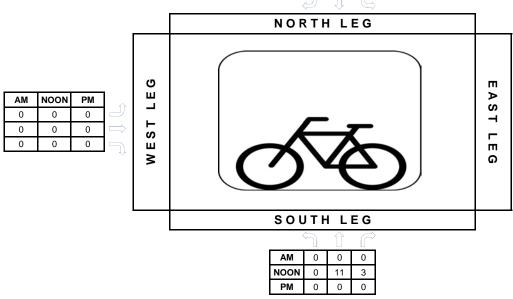


Bicycle Count Peak Hour

PROJECT#: 16-8004-007
N/S Street: S Kihei Rd
E/W Street: Kaonoulu St
DATE: 1/16/2016
CITY: Kihei

	Start:	End:
AM		
NOON	10:00	14:00
PM		

AM	0	0	0
NOON	0	12	0
PM	0	0	0



AM	NOON	PM
0	0	0
0	0	0
0	3	0

PROJECT#: 16-8004-007
N/S Street: S Kihei Rd
E/W Street: Kaonoulu St
DATE: 1/16/2016
CITY: Kihei

DAY: Saturday

NOON

PEDESTRIANS

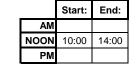
TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WES	T LEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
10:00 AM	0	0	0	0	0	4	0	0
10:15 AM	0	0	0	1	2	0	0	0
10:30 AM	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0
11:00 AM	2	2	2	0	2	0	0	0
11:15 AM	0	0	0	0	0	0	0	0
11:30 AM	0	1	2	0	0	0	0	0
11:45 AM	0	1	2	0	1	3	0	0
12:00 PM	0	0	1	0	0	0	0	0
12:15 PM	0	0	0	2	0	2	0	0
12:30 PM	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	1	2	1	0	0
1:00 PM	0	0	1	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0
1:45 PM	0	0	2	0	0	0	0	0
TOTALS	2	4	10	4	7	10	0	0

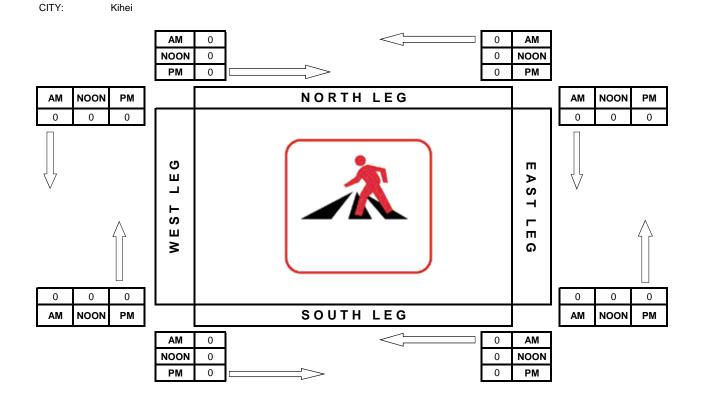
TIME		NB			SB			EB			WB	
I I IVI E	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
10:00 AM	0	5	2	0	3	0	0	0	0	1	0	0
10:15 AM	0	1	0	0	2	0	0	0	0	1	0	0
10:30 AM	0	4	0	0	5	0	0	0	0	1	0	0
10:45 AM	0	1	1	0	2	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	6	0	0	0	0	2	0	0
11:15 AM	0	2	1	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	2	0	3	0	0	0	0	0	0	0
11:45 AM	0	0	1	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	1	0	0	0	0	2	0	0
12:15 PM	0	2	0	0	1	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	1	0	0
12:45 PM	0	2	0	0	0	0	0	0	0	2	0	0
1:00 PM	0	0	1	0	2	0	0	0	0	2	0	0
1:15 PM	0	0	1	0	2	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	1	0	0	0	0	0	0	0
TOTALS	0	17	9	0	28	0	0	0	0	12	0	0

Pedestrian Count Peak Hour

16-8004-008 PROJECT#: Piilani Hwy N/S Street: E/W Street: Kulanihakoi St DATE: 1/16/2016

$DV \wedge C$	Saturday



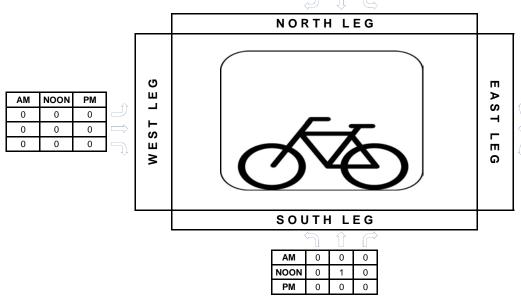


Bicycle Count Peak Hour

PROJECT#: 16-8004-008
N/S Street: Piilani Hwy
E/W Street: Kulanihakoi St
DATE: 1/16/2016
CITY: Kihei

	Start:	End:
AM		
NOON	10:00	14:00
PM		

AM	0	0	0
NOON	0	8	0
PM	0	0	0



AM	NOON	PM
0	0	0
0	0	0
0	0	0

PROJECT#: 16-8004-008
N/S Street: Pillani Hwy
E/W Street: Kulanihakoi St
DATE: 1/16/2016
CITY: Kihei

DAY: Saturday

NOON

PEDESTRIANS

TIME	NORT	H LEG	SOUT	H LEG	EAST	EAST LEG		T LEG
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
10:00 AM	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0
TOTALS	0	0	0	0	0	0	0	0

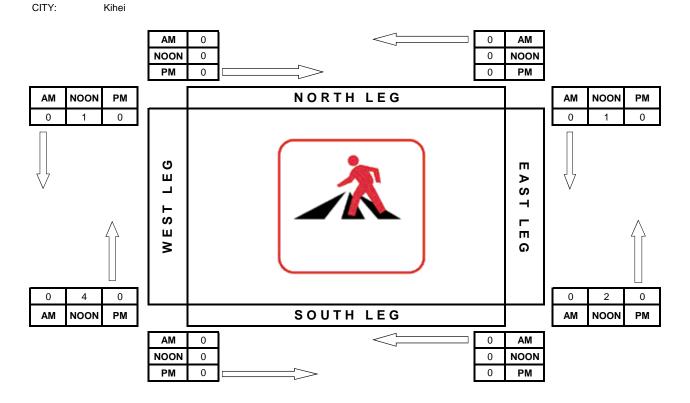
DIKES		NB	_		SB			EB		1	WB	
TIME	L									L		
=	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
10:00 AM	0	0	0	0	1	0	0	0	0	0	0	0
10:15 AM	0	2	0	0	0	0	0	0	0	0	0	1
10:30 AM	0	0	0	0	1	0	0	0	0	0	0	1
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	4	0	0	0	0	0	0	0
11:15 AM	0	1	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	3	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	1	0	0	0	0	0	0	0
12:00 PM	0	1	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	2	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	1	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	1	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	0	5	0	0	13	0	0	0	0	0	0	2

Pedestrian Count Peak Hour

PROJECT#: 16-8004-009
N/S Street: Kenolio St
E/W Street: Kaonoulu St
DATE: 1/16/2016

	Start:	End:
AM		
NOON	10:00	14:00
PM		

ATE:	1/16/2016	DAY: Saturday
ITY:	Kihei	

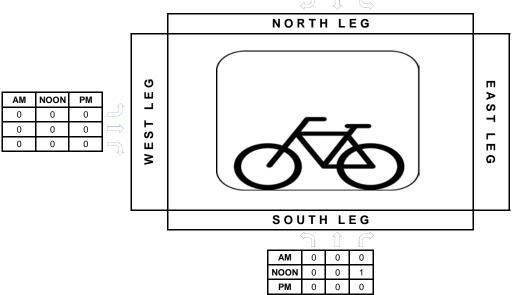


Bicycle Count Peak Hour

PROJECT#: 16-8004-009
N/S Street: Kenolio St
E/W Street: Kaonoulu St
DATE: 1/16/2016
CITY: Kihei

| Start: End: | AM | | | NOON | 10:00 | 14:00 | | PM | |

AM	0	0	0
NOON	0	0	0
PM	0	0	0



AM	NOON	PM
0	0	0
0	0	0
0	1	0

PROJECT#: 16-8004-009
N/S Street: Kenolio St
E/W Street: Kaonoulu St
DATE: 1/16/2016
CITY: Kihei

DAY: Saturday

NOON

PEDESTRIANS

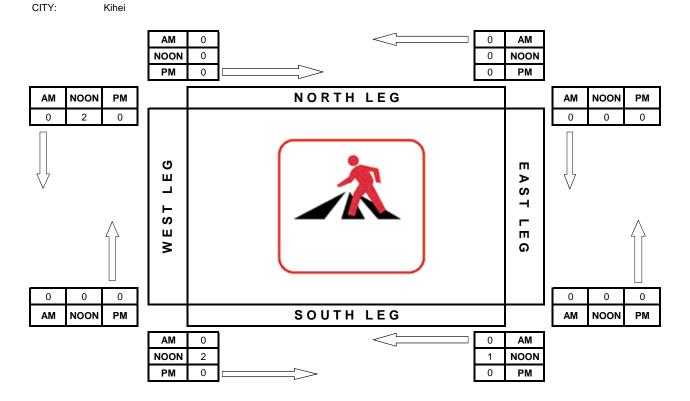
TEDESTRIANS									
TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WES	ΓLEG	
IIIVIE	EB	WB	EB	WB	NB SB NB		SB		
10:00 AM	0	0	0	0	0	1	0	0	
10:15 AM	0	0	0	0	1	0	0	1	
10:30 AM	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	2	0	1	0	
11:15 AM	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	1	1	
11:45 AM	0	0	0	0	0	1	2	0	
12:00 PM	0	1	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	
1:00 PM	0	0	0	0	0	0	0	0	
1:15 PM	0	0	0	0	0	0	0	0	
1:30 PM	0	0	0	0	0	0	0	0	
1:45 PM	0	0	0	0	0	0	0	0	
TOTALS	0	1	0	0	3	2	4	2	

TIME		NB			SB			EB		WB			
I I IVI E	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 AM	0	0	0	0	0	0	0	0	2	0	0	0	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	
11:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	0	0	1	0	0	0	0	0	2	1	0	0	

Pedestrian Count Peak Hour

PROJECT#: 16-8004-010
N/S Street: Alulike St
E/W Street: Kaonoulu St
DATE: 1/16/2016

ATE: 1/16/2016 DAY: Saturday

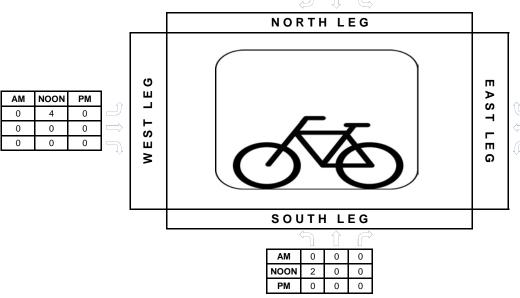


Bicycle Count Peak Hour

PROJECT#: 16-8004-010
N/S Street: Alulike St
E/W Street: Kaonoulu St
DATE: 1/16/2016
CITY: Kihei

	Start:	End:
AM		
NOON	10:00	14:00
PM		

AM	0	0	0
NOON	0	2	0
PM	0	0	0



AM	NOON	PM
0	0	0
0	0	0
0	0	0

PROJECT#: 16-8004-010
N/S Street: Alulike St
E/W Street: Kaonoulu St
DATE: 1/16/2016
CITY: Kihei

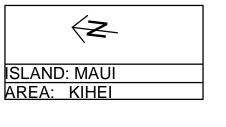
DAY: Saturday

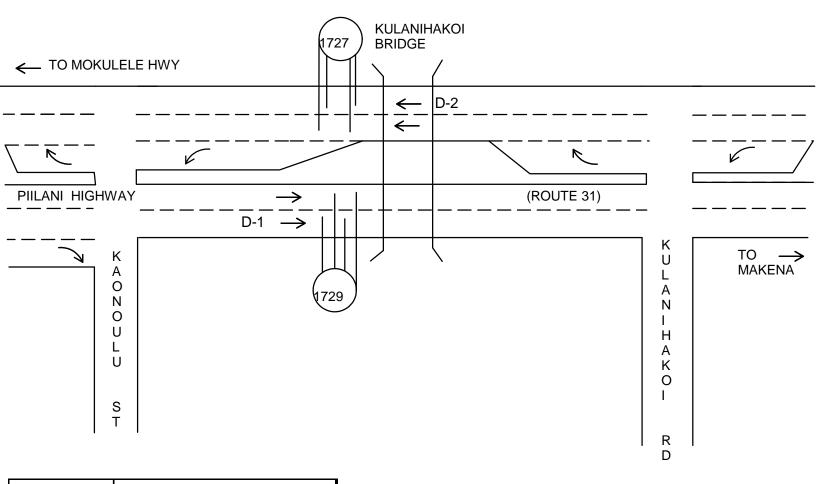
NOON

PEDESTRIANS

TIME	NORT	H LEG	SOUT	H LEG	EAST	LEG	WEST LEG	
IIIVIE	EB	WB	EB	WB	NB	SB	NB	SB
10:00 AM	0	0	0	0	0	1	0	0
10:15 AM	0	0	0	0	0	0	0	0
10:30 AM	0	0	1	1	0	0	0	0
10:45 AM	0	0	1	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	2
11:15 AM	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0
12:00 PM	1	1	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	1	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0
TOTALS	1	1	2	2	0	1	0	2

DIKLS		NB			SB			EB		WB		
TIME										l		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
10:00 AM	0	0	0	0	0	0	1	1	0	0	0	0
10:15 AM	0	0	1	1	0	1	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	1	0	0	0	0	0
11:00 AM	2	0	0	0	2	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	3	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	1	0	0	0	0	0
12:00 PM	0	0	0	0	0	2	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	2	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	1	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	2	0	1	1	2	5	7	1	0	0	0	0





Station No: B74 0031 00000

Station	Location:

Piilani Highway between Kaonoulu Street and Kulanihakoi Road at North side of Kulanihakoi Bridge

Station Mileage:		1.6	3	GPS Coord (L	atitude)	:	20.75801 N			
				GPS Coord (L	ongitud	e):	156.44873 W			
Begin Survey (Date/7	Гime):	5-6-	13 0000	End Survey (Date/Time):			5-9-13 0000			
Survey Method: LC	OOP	HOSE	OTHER	Survey Type:	VOL	CLASS	SPEED	OTHER		
Survey Crew:		CA, LT		Module No.:						

HPMS DATA

Segment Description:

PIILANI HIGHWAY - MOKULELE HIGHWAY TO KILOHANA DRIVE

Segment Begin LRS	0.00	Segment End LRS			5.91		Length	5.91	
Facility Name	Juris	Func	Area	Ro	ute	D-1 =	Direction to En	d of Route	
r acmity Marrie	Julis	Class	Type	Type No. Mile			Direction to Be	ginning of Route	
PIILANI HIGHWAY	S	14	2	31	1.63	D-1	TO KULA HIGH	łWAY	
I IILANI I IIOI IWA I		14	2	31	1.03	D-2	2 TO MOKULELE HIGHWAY		

Sketch By: EPJ Date: 6/6/2011 SLD: 2009

Run Date: 2014/06/17

Hawaii Department of Transportation

Highways Division

Highways Planning Survey Section

2013 Program Count - Summary

Site ID: B74003100000 Functional Class: URBAN:PRINCIPAL ARTERIAL - OTHER Town: Maui Count Type: CLASS **DIR 1:** +MP **DIR 2:**-MP **Counter Type:** Tube

Final AADT: 33700 Route No: 31

Location: Piilani Hwy btwn Kaonoulu St _Kulanihakoi Rd @ North side of Kulanihakoi Bridge

		,				•			- 3 -						
TIME-AM	DIR 1	DIR 2	TOTAL	TIME-AM	DIR 1	DIR 2	TOTAL	TIME-PM	DIR 1	DIR 2	TOTAL	TIME-PI	/ DIR 1	DIR 2	TOTAL
DATE: 05/	07/2013														
12:00-12:15	7	14	21	06:00-06:15	355	305	660	12:00-12:15	286	263	549	06:00-06:	15 221	160	381
12:15-12:30	7	13	20	06:15-06:30	460	368	828	12:15-12:30	309	271	580	06:15-06:	30 210	173	383
12:30-12:45	10	10	20	06:30-06:45	500	321	821	12:30-12:45	308	265	573	06:30-06:	45 217	165	382
12:45-01:00	6	19	25	06:45-07:00	417	299	716	12:45-01:00	326	301	627	06:45-07:	00 161	126	287
01:00-01:15	6	11	17	07:00-07:15	375	232	607	01:00-01:15	330	300	630	07:00-07:	15 170	124	294
01:15-01:30	14	12	26	07:15-07:30	353	264	617	01:15-01:30	340	348	688	07:15-07	30 170	121	291
01:30-01:45	9	18	27	07:30-07:45	275	276	551	01:30-01:45	368	305	673	07:30-07:	45 145	120	265
01:45-02:00	15	16	31	07:45-08:00	325	248	573	01:45-02:00	384	343	727	07:45-08	00 145	101	246
02:00-02:15	10	12	22	08:00-08:15	256	221	477	02:00-02:15	329	344	673	08:00-08	15 160	113	273
02:15-02:30	16	18	34	08:15-08:30	254	251	505	02:15-02:30	362	362	724	08:15-08:	30 147	136	283
02:30-02:45	33	28	61	08:30-08:45	233	302	535	02:30-02:45	332	354	686	08:30-08	45 163	100	263
02:45-03:00	20	18	38	08:45-09:00	277	275	552	02:45-03:00	367	372	739	08:45-09:	00 101	91	192
03:00-03:15	29	13	42	09:00-09:15	216	275	491	03:00-03:15	382	373	755	09:00-09:		96	222
03:15-03:30	45	24	69	09:15-09:30	233	264	497	03:15-03:30	402	431	833	09:15-09:	30 107	90	197
03:30-03:45	62	18	80	09:30-09:45	236	250	486	03:30-03:45	397	423	820	09:30-09:		86	166
03:45-04:00	62	36	98	09:45-10:00	269	260	529	03:45-04:00	386	345	731	09:45-10:		86	156
04:00-04:15	68	58	126	10:00-10:15	235	251	486	04:00-04:15	414	316	730	10:00-10:		49	97
04:15-04:30	92	60	152	10:15-10:30	256	256	512	04:15-04:30	329	363	692	10:15-10:		79	137
04:30-04:45	113	63	176	10:30-10:45	283	267	550	04:30-04:45	286	330	616	10:30-10:		59	79
04:45-05:00	164	81	245	10:45-11:00	261	258	519	04:45-05:00	320	274	594	10:45-11:		38	70
05:00-05:15	165	95	260	11:00-11:15	258	278	536	05:00-05:15	279	194	473	11:00-11:		35	58
05:15-05:30	253	129	382	11:15-11:30	238	297	535	05:15-05:30	248	198	446	11:15-11:		43	54
05:30-05:45	287	190	477	11:30-11:45	298	280	578	05:30-05:45	268	198	466	11:30-11:		20	37
05:45-06:00	331	226	557	11:45-12:00	294	216	510	05:45-06:00	232	197	429	11:45-12:	00 17	27	44
AM COMMUTI	ER PERIO	D (05:00-09	:00)	DIR 1	DII	R 2		PM COMMU	JTER PER	RIOD (15:00-1	9:00)	DIR 1		DIR 2	
TWO DIREC	TIONAL P	EAK						TWO DIR	ECTIONA	L PEAK					
AM - PE	AK HR TIN	ΛE		06:00 AM to	07:00 AM				PEAK HR			0	3:00 PM to 0	4:00 PM	
	AK HR VC		1	732	12	93	3025			VOLUME		1567		1572	3139
	FACTOR (9	%)					8.18		K FACTOI	R (%)					8.49
AM - D (٠,		5	57.26	42.	.74	100.00	PM -	. ,	V		49.92		50.08	100.00
DIRECTION	AL PEAN AK HR TIM	1 □	0	06:15 AM to 07:15	: AM OG	:00 AM to 0	7:00 AM	DIRECTIO	PEAK HR			03:15 PM to	04:15 DM	02:00 DM	to 04:00 PM
	AK HR VO			752	12:		77.00 AIVI			VOLUME		1599	04.13 FW	1572	10 04.00 FW
AM PERIOD (702				PM PERIOD				1000		1072	
TWO DIREC		,						TWO DIRE		,					
	AK HR TIN			06:00 AM to	. ∩7·∩∩ AM				PEAK HR			0	2:45 PM to 0	3.45 PM	
	AK HR VC		1	732	12:		3025			VOLUME		1548	2.43 1 W 10 0	1599	3147
	FACTOR (9		•	. 02			8.18		K FACTOR					.000	8.51
AM - D (-,	5	7.26	42	.74	100.00	PM - I		(/		49.19		50.81	100.00
NON-COMMU		OD (09:00-1	(5:00)					6-HR, 12-H		PERIODS		DIR 1	DIR 2	Total	
TWO DIREC		•	,							06:00-12:00)		7,157	6,514	13,671	
PEAK H				02:00 PM to	03:00 PM	1			,	(00:00-12:00))	8,981	7,696	16,677	
	IR VOLUM	E	1	390	14		2822			(12:00-18:00)		7,984	7,470	15,454	
	DIRECTIONAL PEAK		-					,	(12:00-24:00))	10,603	9,708	20,311		
	HR TIME		n	1:30 PM to 02:30	PM 02	:00 PM to 0	03:00 PM	24 HOUR		(•	19,584	17,404	36,988	
	HR VOLUM	1F		443	14			D (%)				52.95	47.05	100.00	
/ ((\)	• 0 2 3 1 4	-			17	~_		D (70)				32.00		.00.00	

Run Date: 2014/06/17

Hawaii Department of Transportation

Highways Division

Highways Planning Survey Section

2013 Program Count - Summary

Site ID: B74003100000

Town: Maui

DIR 1: +MP DIR 2:-MP Final AADT: 33700

Counter Type: Tube Route No: 31

Site ID: B/4003100000	iown: iviaui
Functional Class: URBAN:PRINCIPAL ARTERIAL - OTHER	Count Type: CLASS
Location: Piilani Hwy btwn Kaonoulu St _Kulanihakoi Rd @ North	side of Kulanihakoi Bridge

TIME-AM	DIR 1	DIR 2	TOTAL	TIME-AM	DIR 1	DIR 2	TOTAL	TIME-PM	DIR 1	DIR 2	TOTAL	TIME-PM	DIR 1	DIR 2	TOTAL
DATE: 05/08/2013															
12:00-12:15	9	14	23	06:00-06:15	357	237	594	12:00-12:15	341	162	503	06:00-06:15	217	114	331
12:15-12:30	13	19	32	06:15-06:30	447	280	727	12:15-12:30	346	178	524	06:15-06:30	179	104	283
12:30-12:45	10	19	29	06:30-06:45	452	274	726	12:30-12:45	313	192	505	06:30-06:45	214	97	311
12:45-01:00	5	15	20	06:45-07:00	404	248	652	12:45-01:00	312	190	502	06:45-07:00	192	81	273
01:00-01:15	11	18	29	07:00-07:15	351	247	598	01:00-01:15	298	168	466	07:00-07:15	176	81	257
01:15-01:30	12	20	32	07:15-07:30	352	208	560	01:15-01:30	309	197	506	07:15-07:30	172	116	288
01:30-01:45	12	15	27	07:30-07:45	272	219	491	01:30-01:45	333	180	513	07:30-07:45	142	88	230
01:45-02:00	13	12	25	07:45-08:00	306	175	481	01:45-02:00	361	175	536	07:45-08:00	174	83	257
02:00-02:15	18	5	23	08:00-08:15	260	167	427	02:00-02:15	340	181	521	08:00-08:15	172	80	252
02:15-02:30	16	15	31	08:15-08:30	265	174	439	02:15-02:30	345	211	556	08:15-08:30	152	85	237
02:30-02:45	30	17	47	08:30-08:45	237	164	401	02:30-02:45	384	182	566	08:30-08:45	153	79	232
02:45-03:00	27	14	41	08:45-09:00	242	184	426	02:45-03:00	399	230	629	08:45-09:00	130	74	204
03:00-03:15	31	17	48	09:00-09:15	255	147	402	03:00-03:15	392	219	611	09:00-09:15	111	54	165
03:15-03:30	39	11	50	09:15-09:30	272	172	444	03:15-03:30	393	251	644	09:15-09:30	105	83	188
03:30-03:45	64	22	86	09:30-09:45	275	172	447	03:30-03:45	377	236	613	09:30-09:45	95	60	155
03:45-04:00	48	25	73	09:45-10:00	250	171	421	03:45-04:00	355	219	574	09:45-10:00	88	56	144
04:00-04:15	65	28	93	10:00-10:15	241	178	419	04:00-04:15	320	211	531	10:00-10:15	52	43	95
04:15-04:30	87	31	118	10:15-10:30	244	176	420	04:15-04:30	339	176	515	10:15-10:30	43	62	105
04:30-04:45	116	50	166	10:30-10:45	218	159	377	04:30-04:45	318	161	479	10:30-10:45	43	38	81
04:45-05:00	148	63	211	10:45-11:00	271	157	428	04:45-05:00	312	183	495	10:45-11:00	27	27	54
05:00-05:15	179	88	267	11:00-11:15	253	151	404	05:00-05:15	292	156	448	11:00-11:15	23	20	43
05:15-05:30	241	132	373	11:15-11:30	305	169	474	05:15-05:30	299	138	437	11:15-11:30	24	29	53
05:30-05:45	288	160	448	11:30-11:45	291	184	475	05:30-05:45	252	130	382	11:30-11:45	14	21	35
05:45-06:00	316	207	523	11:45-12:00	356	152	508	05:45-06:00	194	103	297	11:45-12:00	11	16	27
AM COMMUT	ER PERIO	D (05:00-09	0:00)	DIR 1	DII	R 2		PM COMMU	JTER PER	RIOD (15:00-1	9:00)	DIR 1		DIR 2	
TWO DIREC	CTIONAL P	EAK						TWO DIR	ECTIONA	L PEAK					
AM - PE	EAK HR TIN	ΛE		06:15 AM to 07:15 AM			PM - PEAK HR TIME			03:00 PM to 04:00 PM					
	EAK HR VC			1654	10-	49	2703			VOLUME		1517		925	2442
	FACTOR (9	%)					8.66		K FACTO	R (%)					7.82
AM - D	` '			61.19	38	.81	100.00	PM -	` '			62.12		37.88	100.00
DIRECTION								DIRECTIO							04.00.014
	AK HR TIN AK HR VO			06:00 AM to 07:00 1660	06 AM 06	:15 AM to	07:15 AM		PEAK HR			03:00 PM to 04	1:00 PM	925 PM to	o 04:00 PM
				1000	10.	+3						1317		923	
AM PERIOD (,						PM PERIOD	•	•					
TWO DIREC	EAK HR TIN			06:15 AM to	. 07.15 AM			TWO DIRE	PEAK HR			00.45	5 PM to 03	AE DM	
	EAK HR VC			1654	07:15 AW 10		2703			VOLUME		1561	PIVI IO US	936	2497
	FACTOR (9			1034	10	+3	8.66		K FACTOR			1301		300	8.00
AM - D	•	, 0,		61.19	38.	.81	100.00	PM - I		. (70)		62.52		37.48	100.00
NON-COMMU		OD (09:00-	15:00)					6-HR, 12-H	` '	PERIODS		DIR 1 DI	R 2	Total	
TWO DIREC			10.00)					,	· ·	06:00-12:00)			565	11,741	
	HR TIME	LAN		02:00 PM to	03:00 PM				,	(00:00-12:00)	١		582	14,556	
	IR VOLUM	E		02.00 FW (0	80- 80-		2272			(12:00-18:00)	,		129	12,353	
DIRECTION		_		1700	004	•	<i></i>		,	(12:00-16:00)	١	,	+29)20	16,653	
	HR TIME			02:00 PM to 03:00	DM 00	:00 PM to	03:00 PM	24 HOUR		(12.00-24.00)	,	.602	31,209	
	HR VOLUM	10		1468	80-		03.00 F W		LUDD				,602 .18	100.00	
PEAK	III VULUIV	IL.		1400	804	+		D (%)				02.02 3/	.10	100.00	

Run Date: 2014/06/17

Hawaii Department of Transportation Highways Division Highways Planning Survey Section

Vehicle Classification Data Summary 2013

 Site ID:
 B74003100000
 Route No:
 31
 Date From:
 2013/05/07 0:00

 Town:
 Maul
 Direction:
 +MP
 Date To:
 2013/05/08 23:45

Location: Piilani Hwy btwn Kaonoulu St _Kulanihakoi Rd @ North side of Kulanihakoi Bridge

Functional Classification: 14 URBAN:PRINCIPAL ARTERIAL - OTHER

REPORT TOTALS - 48 HOURS RECORDED

	VOLUME	%	NUMBER OF AXLES
Cycles	361	0.53%	723
PC	58543	85.84%	117086
2A-4T	7434	10.90%	14868
LIGHT VEHICLE TOTALS	66338	97.27%	132677
	HEAVY VEHI	CLES	
Bus	483	0.71%	1207
SINGLE UNIT TRUCK			
2A-6T	823	1.21%	1646
3A-SU	224	0.33%	672
4A-SU	2	0.00%	8
SINGLE-TRAILER TRUCKS			
4A-ST	152	0.22%	608
5A-ST	169	0.25%	845
6A-ST	8	0.01%	48
MULTI-TRAILER TRUCKS			
5A-MT	0	0.00%	0
6A-MT	0	0.00%	0
7 A-M T	0	0.00%	0
HEAVY VEHICLE TOTALS	1861	2.73%	5034
CLASSIFIED VEHICLES TOTALS	68199 (A)	100.00%	137711 (B)

UNCLASSIFIED VEHICLES TOTALS -2 -0.00%

.v. =

CORRECTION FACTOR (A/C) = 0.990 ROADTUBE EQUIVALENT(B/2) = 68856 (C)

PEAK HOUR VOLUME: 3139 2013/05/07 15:00	PEAK HOUR TRUCK VOLUME	% TOTAL PEAK HOUR VOLUME	24 HOUR TRUCK VOLUME	AADT	% OF AADT	HPMS K-FACTOR (PEAK/AADT) (ITEM 66)
SINGLE UNIT TRUCKS (TYPE 4-7) COMBINATION (TYPE 8-13)	60 16	(65A-1) 1.91% (65B-1) 0.51%	766 164	33700	(65A-2) 2.27% (65B-2) 0.49%	9.31% 9.31%