

January 27, 2024

Tenisha Victor Vice President of New and Expanding Markets Ayr Wellness 2601 South Bayshore Drive Suite 900 Miami, FL 33133

Re: Site Traffic Assessment

Proposed Cannabis Dispensary

417 Shippan Avenue Stamford, Connecticut

Dear Ms. Victor:

The site is located on the west side of Shippan Avenue in a multi-use shopping center, between Park Street to the north and Cummings Park Road to the south. The floor space that will be devoted to the subject use is on the first floor of the two-story building located at the south end of the subject parcel which currently houses the Bank of America. The site in the immediate vicinity of the subject building is served by three two-way site drives intersecting the west side of Shippan Avenue, with several rows of parking spaces, all of which may accommodate the patrons of the subject facility.

Please refer to Exhibit 1 of the Appendix which locates this site with respect to the surrounding roadway network.

Introduction

Please refer to Table A on the next page which summarizes the development parameters for the proposed cannabis dispensary.

The proposed space to be devoted to this use will be about 2,050 square feet and it is the size of the space that serves as the independent variable in estimating the trip generation potential for this use. As will be demonstrated later in this study, the proposed cannabis dispensary will generate about 39 trips per hour during the weekday pm peak and about 59 trips per hour during the Saturday midday peak. A trip is defined as a one-way vehicular movement traveling either to or from the site, wherein each patron will generate one inbound and one outbound trip. Therefore, the number of expected patrons would be half these two-way trip generation values.

The proposed dispensary will operate from 9:00 am to 8:00 pm daily.

Table A Development Parameters Proposed Cannabis Dispensary 417 Shippan Avenue Stamford, Connecticut

Floor Space	(SF):
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Total:

2,050

Hours of Operation:

Monday thru Sunday:

9:00 am to 8:00 pm

Trip Generation (2-way):

Weekday PM Peak Hour of Adjacent Street:

39

Saturday Peak Hour of Generator:

59

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Traffic Conditions

Shippan Avenue is a bi-directional city street running north-south in the vicinity of the subject site, with one northbound and one southbound lane, and on-street parking along its east edge.

Please refer to Exhibit 2 of the Appendix which shows a view of the site from Shippan Avenue, where there are three site drives serving rows of parking areas in the shopping center in which the subject building is located.

A review of Connecticut Department of Transportation (CTDOT) data for Shippan Avenue, which is limited in detail, indicates that Shippan Avenue in the vicinity of the subject site carries about 5,100 two-way vehicles per day, and that Shippan Avenue is posted at 25 miles per hour in both directions.

Site Plan

Please refer to Exhibit 3 in the Appendix which shows a copy of the proposed site plan.

The footprint of the existing building will essentially remain the same and is located along the south side of the parcel. The parking areas that will accommodate patrons to this site are located to the north of the building with three site drives located at the eastern end of the parcel which directly interface with the west side of Shippan Avenue.

Floor Plan Layout

Please refer to Exhibit 4 in the Appendix which shows a copy of the proposed floor plan for the space that will be devoted to the subject use. In all, the devoted space will consist of 2,050 square feet of gross floor area, wherein it is the gross floor area of the specific use that is typically utilized in calculating the estimated trip generation.

Trip Generation

In estimating the likely trip generation associated with the proposed cannabis dispensary use, we utilized the trip generation calculations that are made available to the traffic engineering profession by the Institute of Transportation Engineers (ITE) in its data source entitled <a href="https://example.com/Transportation-Likelian-Li

This document provides trip generation equations derived from sources from throughout the country for various land uses based on the size of an independent variable. For most land uses, as with the subject dispensary, that independent variable is typically the gross floor area of the space allotted to the use.

For this latest iteration of our evaluation of the subject proposal, we have opted to use the trip generation data from the latest edition of the Trip Generation Manual, version 11, versus the data that was used from the prior edition, version 10, previously presented in our preliminary Site Assessment dated December 11, 2023. The latest edition, which has a larger database for this relatively new use includes trip generation factors that are somewhat lower than the previous edition which had limited data for this use.

Please refer to Table B on the next page which summarizes the trip generation estimates for various time periods based on the latest trip generation factors for ITE Land Use Code No. 882, cannabis dispensaries, as follows:

Weekday PM Peak:

18.92 trips per 1,000 square feet building area

Saturday Midday Peak:

28.85 trips per 1,000 square feet building area

A review of Table B indicates that the expected trip generation for the proposed cannabis dispensary use would be about 39 trips per hour during the weekday pm commuter peak, and about 59 trips per hour during the Saturday midday retail peak, all of which are considered relatively low trip generation values, distributed 50/50 north and south of the site.

Note that Table B also includes a comparison of the trip generation associated with the current drive-in bank use of the subject space, wherein the existing trip generation for the bank is estimated at about 43 trips per hour during the weekday pm commuter peak, and about 54 trips per hour during the Saturday midday retail peak.

Existing Traffic Volumes

The subject study area has been defined as: (1) the three Shippan Avenue site drives serving the subject multi-use shopping center, and (2) the signalized intersection of Shippan Avenue at Harboursite and Cummings Park Road.

For the purpose of determining the existing traffic volumes traveling through the study area, manual turning movement counts were conducted at the three Shippan Avenue site drives in mid-December 2023, and at the signalized intersection to the south of Shippan Avenue at Harboursite and Cummings Park Road in mid-January 2024 during representative peak periods during the following traditional peak periods that are evaluated in the case of retail developments as follows:

Table B Trip Generation Comparison Proposed Cannabis Dispensary 417 Shippan Avenue Stamford, Connecticut

		Existing Drive-Up <u>Bank</u>	Proposed Cannabis Dispensary	<u>Change</u>
Gross B	uilding Area (SF)	2,050	2,050	None
Trip Ger	neration (2-way [1]:			
	Weekday PM Peak Hour of Adjacent Street:	43	39	4 less
	Saturday Mid-Day Peak Hour:	54	59	5 more

[1] Note: Typical analysis peaks

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	Peak Period	Time Interval
•	Weekday PM Peak	4 pm to 6 pm
•	Saturday Peak	11 am to 1 nm

Please refer to Exhibit 5 of the Appendix which graphically summarizes the existing 2024 peak hour traffic volumes for the weekday pm and Saturday midday peaks for the subject study area.

Note that the existing peak hour traffic volumes summarized in Exhibit 5 include the existing drive-in bank use of the subject space to be occupied by the proposed cannabis dispensary.

Background and Combined Traffic Volumes

Please refer to Exhibits 6 and 7 of the Appendix which graphically depict the background 2026 (no-build) and combined 2026 (build) peak hour traffic volumes, respectively, for the defined study intersections during the weekday pm and Saturday midday peaks.

The background (no-build) peak hour traffic volumes were derived by projecting the existing traffic volumes from Exhibit 5 two years forward assuming a 2 percent per year growth in the pass-by traffic volumes, which is a typical growth rate.

Note that the background peak hour traffic volumes summarized in Exhibit 6 of the Appendix also include the existing drive-in bank use.

The combined traffic volumes shown in Exhibit 7 of the Appendix were derived by making the adjustments shown in the right column of Table B to account for the change in use from the existing drive-in back to the proposed cannabis dispensary.

Please refer to Table C on the next page which summarizes the trip generation and trip distribution associated with changing the use from the existing drive-in bank use to the proposed cannabis dispensary use.

Traffic Operations Analyses

The three Shippan Avenue site drives are all unsignalized 3-way intersections with Shippan Avenue running north-south and the site drive of each as the west leg controlled by a Stop sign. All approaches to all three intersections are each one lane wide to accommodate the movements they serve.

Table C Trip Generation and DistributionComparison Proposed Cannabis Dispensary 417 Shippan Avenue Stamford, Connecticut

		Trip Distr	ribution
Difference in Trip General Meekday PM Peak Hour of		To/From North via Shippan <u>Avenue</u>	To/From South via Shippan <u>Avenue</u>
Inbound <u>Outbound</u> Total	2 less 2 less 4 less	1 less <u>1 less</u> 2 less	1 less 1 less 2 less
Saturday Mid-Day Peak Hou	<u>ır:</u>		
Inbound <u>Outbound</u> Total	3 more 2 more 5 more	2 less <u>1 less</u> 3 less	1 less 1 less 2 less

[1] Difference Between Existing and Proposed Use from Table B

Bubaris Traffic Associates January 2024 Please refer to Exhibit 8 of the Appendix which includes a copy of the traffic control signal plan for the adjacent intersection of Shippan Avenue at Harboursite and Cummings Park Road.

A review of Exhibit 8 of the Appendix shows that Shippan Avenue runs north-south through this intersection, Harboursite drive is the west leg, and Cummings Park Road is the east leg. The Shippan Avenue northbound approach is two lanes wide, with one combination left/through lane and one dedicated right turn lane. The Shippan Avenue southbound approach is two lanes wide, with one dedicated left turn lane and one combination through/right lane. Both the Harboursite eastbound and Cummings Park westbound approaches are one lane wide to accommodate combination left/through/right movements. There are sidewalks on both sides of Shippan Avenue and Cummings Park Road, and on the south side of Harboursite. There are also crosswalks and pedestrian signals across the north, east and south legs of the intersection. The traffic signal operates to basically provide four phases: the first phase moves the southbound approach in an advance phase to address the associated left turn, the second phase moves the northbound and southbound approaches, the third phase is an exclusive pedestrian phase, and the fourth phase moves the eastbound and westbound approaches.

Intersection traffic operational analyses were performed for the three Shippan Avenue unsignalized site drive intersections and the Cummings Park Road signalized intersection utilizing the methodology described in the latest edition of Highway Capacity Manual, Special Report 209, Transportation Research Board, 1985, updated to 2010. Application of this methodology was facilitated by use of Synchro Analysis Software, developed by the Trafficware Corporation, Version 10, 2020. Operational analyses are utilized to determine a Level of Service (LOS) for a given intersection operating under either signalized or unsignalized control.

In the case of <u>signalized intersections</u> similar to the intersection of Shippan Avenue at Harboursite and Cummings Park Road, Level of Service (LOS) is defined in terms of control delay, which is a measure of driver discomfort, frustration, increased fuel consumption, and lost of travel time. The delay experienced by a motorist is comprised of several factors that relate to control, geometric, traffic, and incidents. Total delay is the difference between the travel time experienced and the reference travel time that would result during base conditions in the absence of traffic control, geometric delay, any incidents, and any other vehicles. Specifically, LOS criteria for traffic signals are stated in terms of the average control delay per vehicle, typically for a 15-minute analysis period. Delay is a complex measure and depends on several variables, including the quality of progression, the cycle length, the green ratio, and the volume-to-capacity (v/c) ratio for the lane group. In the case of signalized intersections, the Level of Service for each approach is computed, and an overall Level of Service for the entire intersection is determined.

In today's environment, Levels of Service C to D are considered acceptable, and Levels of Service A to B are seldom achieved at signalized intersections.

Please refer to Exhibit 9-A of the Appendix which provides the definitions of levels of service for <u>signalized</u> intersections.

In the case of unsignalized intersections similar to the proposed Shippan Avenue site drive intersections, Level of Service (LOS) is defined in terms of the average control delay for the approach or movement evaluated. Control delay involves movements at slower speeds and stops on intersection approaches as vehicles move up in the queue or slow down upstream of an intersection. The delay experienced by a motorist is comprised of factors that relate to control, geometrics, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference time that would result during base conditions in the absence of incident, control, traffic, or geometric delay. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. At two-way stop-controlled and all-way stop-controlled intersections, control delay is the total elapsed time from a vehicle joining the queue until its departure from the stopped position at the head of the queue. The control delay also includes the time required to decelerate to a stop and to accelerate to the free-flow speed. Level of Service for a one-way or two-way stopcontrolled intersection is determined by the computed or measured control delay and is defined for each minor movement. LOS for a one-way or two-way stop-controlled intersection is not defined for the intersection as a whole. In today's environment, Levels of Service D to F are common and are often experienced on minor street approaches to major streets carrying relatively high traffic volumes.

Please refer to Exhibit 9-B in the Appendix, which provides details on the definitions of Levels of Service for <u>unsignalized</u> intersections.

The results of the operational analyses, which evaluate 2024 existing, 2026 background (no-build), and 2026 combined (build) peak hour traffic operations for the two peak hour scenarios defined above are summarized in Table D on the next page.

The computer-generated worksheets for these traffic operations analyses are included in the Appendix as follows:

- Exhibit 10 Existing 2024 Peak Hours
- Exhibit 11 Background 2026 (no-build) Peak Hours
- Exhibit 12 Combined 2026 (build) Peak Hours

Table D
Summary of Traffic Operations Analysis
Levels of Service
Proposed Cannibas Dispensary Site
417 Shippan Avenue
Stamford, Connecticut

Intersection	Ex	Existing	Background	Background (no-build) 2026	Combined	Combined (build) 2026
	Weekday	Saturday	Weekday	Weekday Saturday	Weekday	eekday Saturday
	PM Peak	Midday Peak	PM Peak	PM Peak Midday Peak	PM Peak	M Peak Midday Peak
Shippan Avenue at Dispensary north site drive						
Shippan northbound inbound left	LOS A	LOS A	LOS A	LOS A	LOS A	LOS A
Delay per vehicle (sec.)	8.1	8.1	8.1	8.1	8.1	8.1
North site drive eastbound outbound approach	LOS B	LOS B	LOS B	LOS B	LOS B	LOS B
Delay per vehicle (sec.)	12.7	13.0	13.1	13.4	13.1	13.3
Shippan Avenue at Dispensary middle site drive						
Shippan northbound inbound left	LOS A	LOS A	LOS A	LOS A	LOS A	LOS A
Delay per vehicle (sec.)	8.0	8.0	8.0	8.1	8.0	8.0
North site drive eastbound outbound approach	LOS B	LOS B	LOS B	LOS B	LOS B	LOS B
Delay per vehicle (sec.)	13.2	13.2	13.6	13.5	13.5	13.5
Shippan Avenue at Dispensary south site drive						
Shippan northbound inbound left	LOS A	LOS A	LOS A	LOS A	LOS A	LOS A
Delay per vehicle (sec.)	8.0	8.0	8.0	8.1	8.0	8.1
North site drive eastbound outbound approach	LOS B	LOS B	LOS B	LOS B	LOS B	LOS B
Delay per vehicle (sec.)	11.3	12.0	11.5	12.2		12.2
Shippan Avenue at Harboursite and Cummings Park Road						
Shippan Avenue northbound approach	LOS A	LOS A	LOS A	LOS A	LOS A	LOS A
Delay per vehicle (sec.)	8.5	9.5	8.7	9.6	8.7	9.6
Shippan Avenue southbound approach	LOS A	LOS A	LOS A	LOS A	LOS A	LOS A
Delay per vehicle (sec.)	3.9	3.3	4.0	3.4	4.0	3.4
Harboursite eastbound approach	LOS B	LOS B	LOS B	LOS B	LOS B	LOS B
Delay per vehicle (sec.)	13.8	11.9	14.0	12.2	13.8	12.2
Cummings Park Drive westbound approach	LOS B	LOS B	LOS B	LOS B	LOS B	LOS B
Delay per vehicle (sec.)	15.2	15.8	15.5	16.4	15.4	16.4
Overall Intersection Delay per vehicle (sec.) Maximum volume/capacity ratio	- LOS A - 7.7 0.37	- LOS A - 7.5 0.31	- LOS A - 7.8 0.38	-LOS A - 7.6 0.32	- LOS A - 7.8 0.38	- LOS A - 7.6 0.32

Bubaris Traffic Associates January 2024 A review of Table D shows that all of the Shippan Avenue unsignalized site drive intersections will continue to provide excellent level of service A for the inbound left turn and right turn movements, and very good level of service B for the outbound movements.

A review of Table D also shows that levels of service for the signalized intersection of Shippan Avenue at Harboursite and Cummings Park Road will continue to operate at excellent overall level of service A for the entire intersection taken as a whole, with the Shippan Avenue approaches operating at excellent level of service A, and the side street approaches operating at very good level of service B.

Therefore, the proposed development should not have an adverse impact on pass-by traffic travelling through this area.

Traffic Crash Analysis

Please refer to Table E on the next page for a summary of the following traffic crash review.

A review was made of the most recent available three-year (2020 thru 2022) traffic crash experience summary for the immediate study area as compiled in UConn's Traffic Crash Data Depository from information provided by CTDOT, and state and municipal police departments.

A review of the latest UConn records for subject Shippan Avenue site drive intersections showed no crashes recorded, and for the intersection of Shippan Avenue at Harboursite and Cummings Park Road only two crashes recorded during this 3-year period, with no recurring problems requiring correction, or that may be exacerbated by the proposed development.

Recommended Improvements

Given the foregoing favorable traffic operations and satisfactory traffic crash experience, traffic control and/or geometric improvements are neither deemed necessary nor recommended.

2020 thru 2022 Immediate Study Area Proposed Cannabis Dispensary, 417 Shippan Avenue Stamford, Connecticut Source: UConn Traffic Crash Data Depository Summary of Traffic Crash Experience Most Recent 3-Year Experience Table E

4	TOTAL	0	8	
#1	Total	0	0	l
Fixed Object	EB WB NB SB			
ш,	EBWE			
selves	Total	0	7	
Head-On Crashes	NB/SB		7	
He	EB/WB			
	Total	0	0	
rashes	EB/SB WB/NB WB/SB			
Right Angle Crashes	WB/NB			
Rig				
	EB / NB			E E E E E E E E E E E E E E E E E E E
	Total	0	0	
seyes	SB/SB			
Rear End Crashes	NB / NB			
찞	WB / WB			
	EB/EB			
Intersection		Shippan Avenue at no. 417 Site Drives	Shippan Avenue at Harboursite & Cummigs Park Road	

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Total

Parking Assessment

The sixth edition of <u>Parking Generation</u> by the Institute of Transportation Engineers (ITE) indicates from data collected at 11 different sites that for a 2,050 square foot cannabis dispensary similar to what is proposed, the maximum parking demand for a weekday is 13 spaces, and for a Saturday is 10 spaces.

Please refer to Exhibit 13 of the Appendix which shows the parking area that is available to the subject site, served by the forementioned three site drives. With the drive-in bank that will provide the space for the proposed dispensary still in place, field views recently conducted of this area revealed the following numbers of available parking spaces in this area on the following dates:

• Thursday, January 18, 2024, at 11:45 am:

93 open spaces

• Friday, January 19, 2024, at 10;45 am:

91 open spaces

• Saturday, January 20, 2024, at 12:00 noon:

85 open spaces

Therefore, comparing the estimated parking demand of about 10 to 13 spaces to the apparent parking supply of 85 to 93 spaces indicates that there is an adequate parking area to accommodate the estimated use of this space.

Conclusions

It is the professional opinion of Bubaris Traffic Associates that the proposed cannabis dispensary, to be located at the west side of Shippan Avenue at the building at no. 417, with access to/egress from the surrounding roadway network via the three existing drives serving the multi-use shopping center within which the building is located, should not adversely impact traffic operations on the surrounding roadway network in the year 2025-2026 when occupancy of the subject space and full operation is expected.

The proposed development will generate about 39 trips per hour during the weekday pm peak, and about 59 trips per hour during the Saturday middy peak, where each patron visiting the site will generate one inbound and one outbound vehicular trip. Therefore, the projected patron numbers would be HALF of these estimated trip generation estimates.

Traffic operational analyses indicate that the proposed development should not have an adverse impact on traffic operations with good to excellent levels of service.

The traffic crash experience for the subject study area is satisfactory, with no recurring problems that need to be corrected, or that may be exacerbated by the proposed development.

Field views have indicated that sufficient parking supply exists to conveniently support the proposed use.

No. 9203

No. 9203

CENSED MAINTINGSONAL ENGINEERING

Very truly yours, Bubaris Traffic Associates

James G. Bubaris, P.E.

President

Conn. Reg. No. 9203

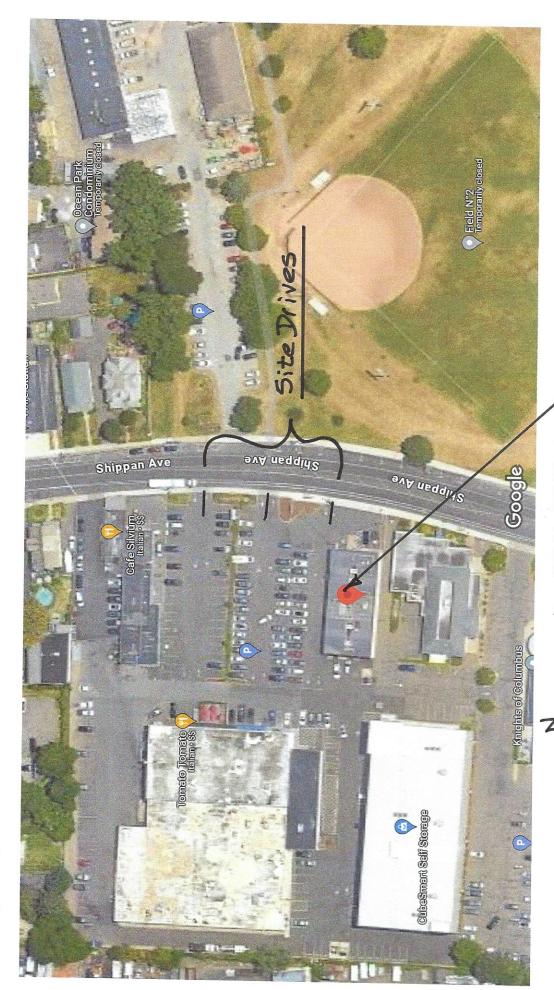
Site Traffic Assessment Proposed Cannabis Dispensary 417 Shippan Avenue Stamford, Connecticut

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Exhibit 1
Location Maps
Proposed Cannabis Dispensary
417 Shippan Avenue
Stamford, Connecticut



50 ft Imagery ©2023 Airbus, CNES / Airbus, Maxar Teknologies, New York GIS, USDA/FPAC/GEO, Map data ©2023

Site

Exhibit 2
View of Site from Shippan Avenue
417 Shippan Avenue
Stamford, Connecticut

400 Shippan Ave

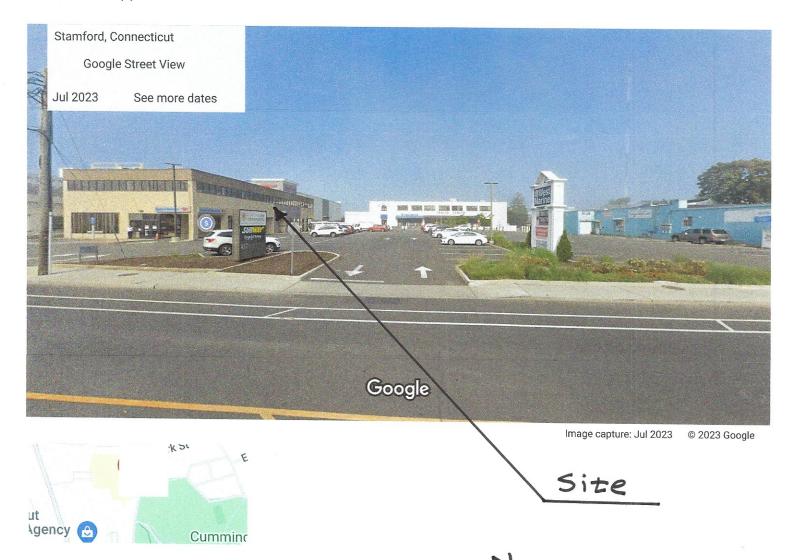


Exhibit 3
Site Plan
Proposed Cannabis Dispensary
417 Shippan Avenue
Stamford, Connecticut

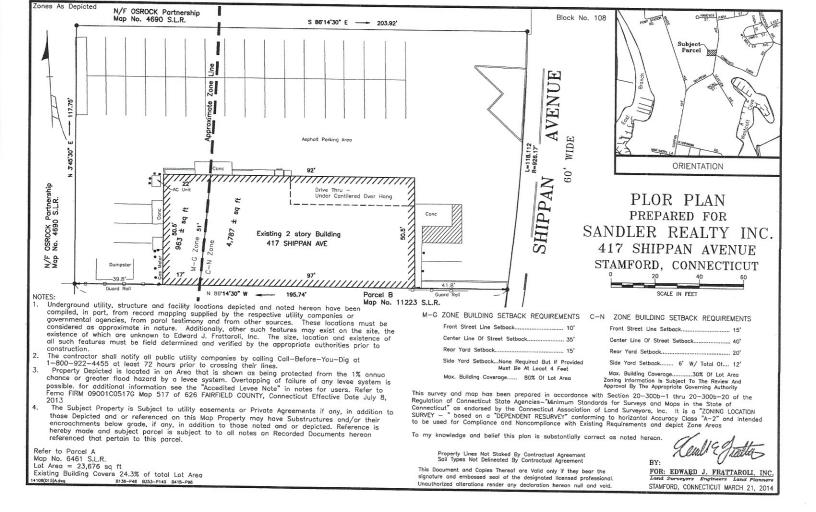


Exhibit 4
Proposed Floor Plan
Proposed Cannabis Dispensary
417 Shippan Avenue
Stamford, Connecticut

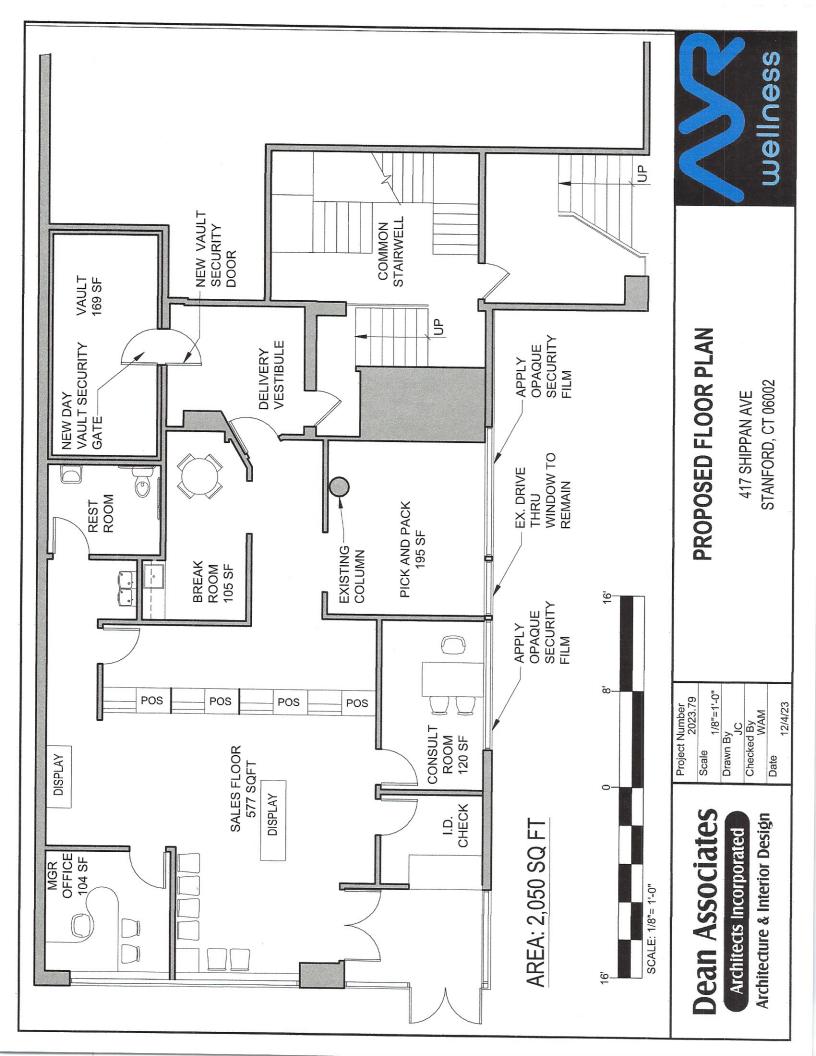
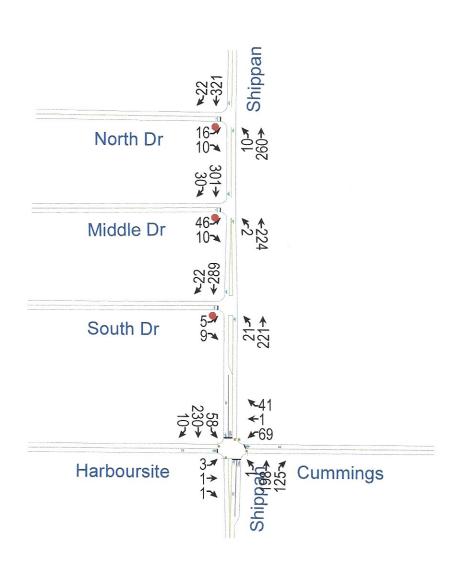


Exhibit 5
Existing Peak Hour Traffic Volumes
417 Shippan Avenue Study Area
Stamford, Connecticut



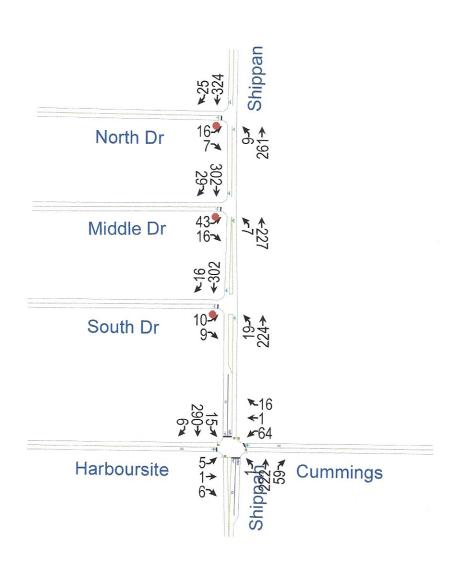
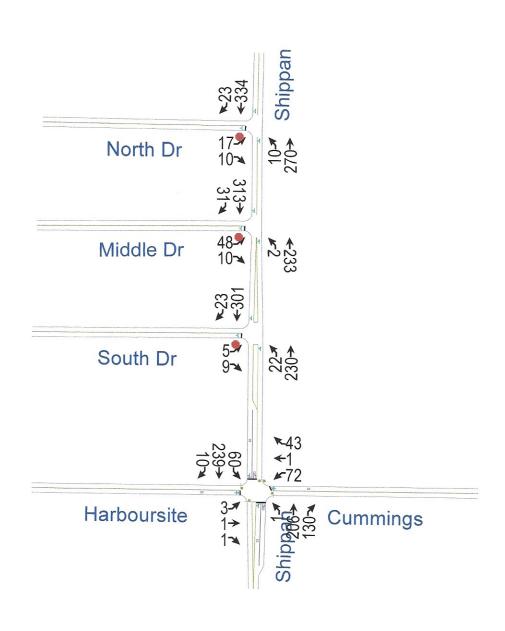


Exhibit 6
Background (no-build) Peak Hour Traffic Volumes
417 Shippan Avenue Study Area
Stamford, Connecticut



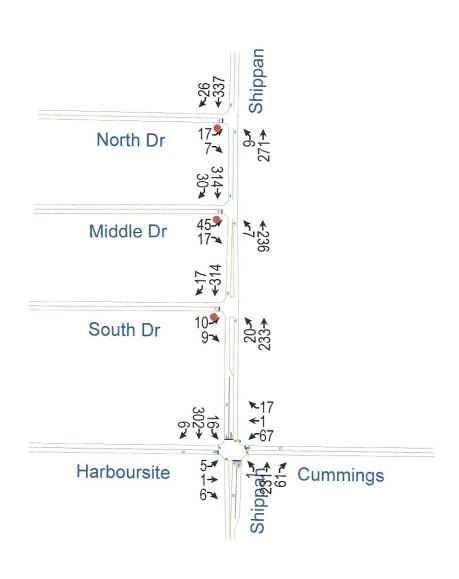
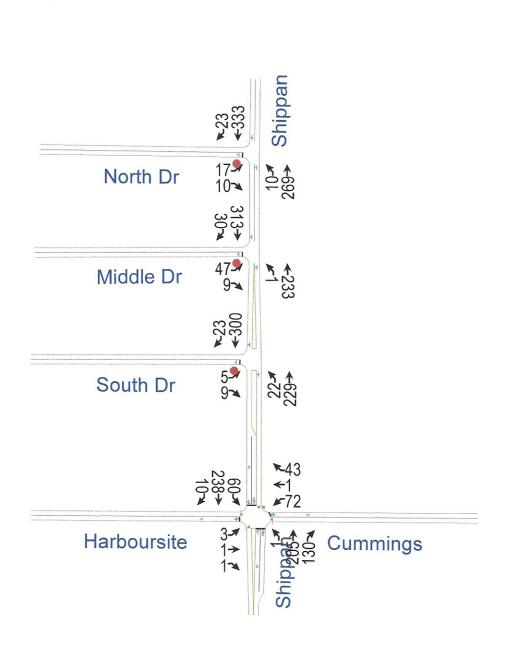


Exhibit 7
Combined (build) Peak Hour Traffic Volumes
417 Shippan Avenue Study Area
Stamford, Connecticut



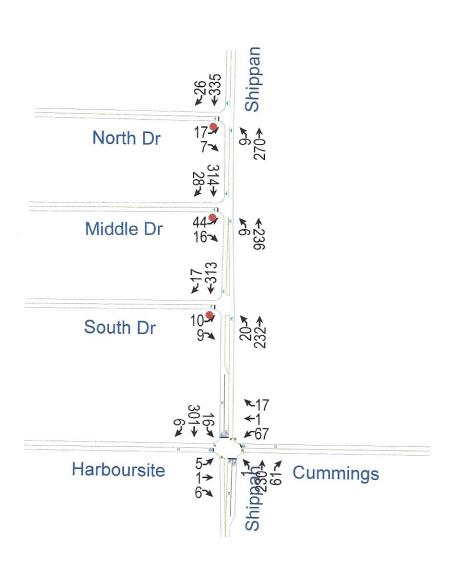


Exhibit 8
Traffic Control Signal Plan
Shippan Avenue at Harboursite and Cummings Park Road
Stamford, Connecticut

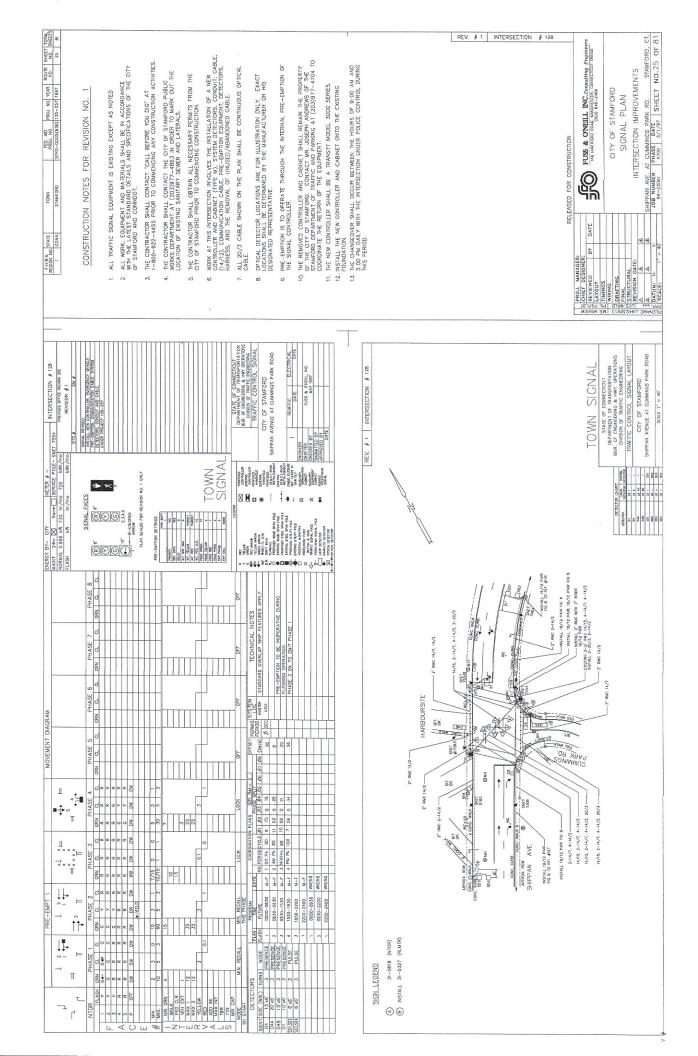


EXHIBIT 9-A LEVEL OF SERVICE CRITERIA SIGNALIZED INTERSECTIONS

SOURCE: <u>HIGHWAY CAPACITY MANUAL (HCM)</u>, 2010 TRANSPORTATION RESEARCH BOARD (1)

Level of Service for **signalized intersections** is defined in terms of control delay, which is a measure of driver discomfort, frustration, increased fuel consumption, and lost travel time. The delay experienced by a motorist is comprised of a number of factors that relate to control, geometric, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions in the absence of traffic control, geometric delay, any incidents, and any other vehicles. Specifically, LOS criteria for traffic signals are stated in terms of the average control delay per vehicle, typically for a 15-minute analysis period. Delay is a complex measure and depends on a number of variables, including the quality of progression, the cycle length, the green ratio, and the volume-to-capacity (v/c) ratio for the lane group.

In the case of **signalized intersections**, the Level of Service for each approach is computed, and an overall Level of Service for the entire intersection is determined.

Levels of Service (LOS) for signalized intersections are defined as follows:

LEVEL OF SERVICE	CONTROL DELAY PER VEHICLE (SECONDS)	CONDITION
LOS A	<u><</u> 10	LOW DELAY
LOS B	> 10 TO 20	SHORT DELAY
LOS C	> 20 TO 35	AVERAGE DELAY
LOS D	> 35 TO 55	CONGESTION NOTICEABLE
LOSE	> 55 TO 80	LIMIT OF ACCEPTABLE DELAY
LOS F	> 80	UNACCEPTABLE

In today's environment, Levels of Service C to D are considered acceptable, and Levels of Service A to B are seldomly achieved at signalized intersections.

(1) HCM, Exhibit 16-2.

EXHIBIT 9-B LEVEL OF SERVICE CRITERIA UNSIGNALIZED INTERSECTIONS

SOURCE: <u>HIGHWAY CAPACITY MANUAL (HCM)</u>, 2010 TRANSPORTATION RESEARCH BOARD (1)

Level of Service for **unsignalized intersections** similar to the study intersections is defined in terms of the average control delay for the approach or movement evaluated. Control delay involves movements at slower speeds and stops on intersection approaches as vehicles move up in the queue or slow down upstream of an intersection.

The delay experienced by a motorist is comprised of factors that relate to control, geometrics, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference time that would result during base conditions in the absence of incident, control, traffic, or geometric delay. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay.

At two-way stop-controlled and all-way stop-controlled intersections, control delay is the total elapsed time from a vehicle joining the queue until its departure from the stopped position at the head of the queue. The control delay also includes the time required to decelerate to a stop and to accelerate to the free-flow speed.

Level of Service (LOS) for a two-way stop-controlled intersection is determined by the computed or measured control delay and is defined for each minor movement. LOS is **not defined** for the intersection as a whole.

Level of Service (LOS) for an all-way stop-controlled intersection is determined by the computed or measured control delay and is defined for all movements. A LOS **is then defined** for the intersection as a whole.

Levels of Service (LOS) for unsignalized intersections are defined as follows:

LEVEL OF SERVICE	AVERAGE CONTROL DELAY PER VEHICLE (SECONDS)	CONDITION
LOS A	0 TO 10	LITTLE OR NO DELAY
LOS B	> 10 TO 15	SHORT DELAY
LOS C	> 15 TO 25	AVERAGE DELAY
LOS D	> 25 TO 35	LONG DELAY
LOS E	> 35 TO 50	VERY LONG DELAY
LOS F	> 50	EXTREME DELAY

In today's environment, Levels of Service D to F are common and are often experienced on minor street approaches to major streets carrying relatively high traffic volumes.

(1) **HCM**, Exhibits 17-2 and 17-22.

Exhibit 10
Traffic Operations Analyses
Existing Peak Hour Traffic Volumes
417 Shippan Avenue Study Area
Stamford, Connecticut

Int Delay, s/veh	Intersection						
Lane Configurations		0.6					
Lane Configurations	Movement	EBL	EBR	NBL	NBT	SBT	SBR
Traffic Vol, veh/h 16 10 10 260 321 22 Future Vol, veh/h 16 10 10 280 321 22 Conflicting Peds, #hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Lane Configurations	N/F					
Conflicting Peds, #/hr 0 0 0 0 0 0 0 Sign Control Stop Stop Free <		16			260	321	
Sign Control Stop Stop Free RTC Annnelized None Non	A STATE OF THE PARTY OF THE PAR						
RT Channelized			A STATE OF THE PARTY OF THE PAR				
Storage Length						et liberor sance	
Veh in Median Storage, # 0 - - 0 0 - Grade, % 0 - - 0 0 - Peak Hour Factor 92 92 92 92 92 92 Heavy Vehicles, % 2 2 2 2 2 2 2 2 Major/Minor Minor Major/ Major/ Major/ Major/ Conflicting Flow All 666 361 373 0 - 0 Stage 1 361 - - - - - - Stage 2 305 -				-	CONTRACTOR OF THE PROPERTY OF		
Grade, % 0 - - 0 0 - Peak Hour Factor 92 92 92 92 92 92 Heavy Vehicles, % 2 2 2 2 2 2 2 2 Minor 17 11 11 283 349 24 Major/Minor Minor Minor Major1 Major2 Conflicting Flow All 666 361 373 0 0 Stage 1 361 - - - - - Stage 2 305 -				-			
Peak Hour Factor 92 94 Major Mill 6 6 861 180 180 18 18 18 18 18 18 18 18 1	control control to the plant of the control of the	The state of the s					
Heavy Vehicles, % 2 2 2 2 2 2 2 2 2							
Mymit Flow 17 11 11 283 349 24 Major/Minor Minor2 Major1 Major2 Conflicting Flow All 666 361 373 0 0 Stage 1 361 - - - - Stage 2 305 - - - - Critical Hdwy 6.42 6.22 4.12 - - - Critical Hdwy Stg 1 5.42 - - - - - - - Critical Hdwy Stg 2 5.42 -	THE RESIDENCE OF THE PROPERTY						
Major/Minor Minor2 Major1 Major2 Conflicting Flow All 666 361 373 0 0 Stage 1 361 - - - - Stage 2 305 - - - - Critical Hdwy 6.42 6.22 4.12 - - Critical Hdwy Stg 1 5.42 - - - - Critical Hdwy Stg 2 5.42 - - - - - Follow-up Hdwy 3.518 3.318 2.218 -							
Conflicting Flow All 666 361 373 0 - 0 Stage 1 361 - - - - Stage 2 305 - - - - Critical Hdwy 6.42 6.22 4.12 - - - Critical Hdwy Stg 1 5.42 - - - - - - Critical Hdwy Stg 2 5.42 - <					200	070	27
Conflicting Flow All 666 361 373 0 - 0 Stage 1 361 - - - - - Stage 2 305 - - - - - Critical Hdwy 6.42 6.22 4.12 - - - Critical Hdwy Stg 1 5.42 - - - - - Critical Hdwy Stg 2 5.42 - - - - - Follow-up Hdwy 3.518 3.318 2.218 - - - Pot Cap-1 Maneuver 425 684 1185 - - - Stage 1 705 - - - - - - Stage 2 748 -	Major/Minor	Minor	_1	Majort	ā	Acie 2	
Stage 1 361 -		A CONTRACTOR OF THE PARTY OF TH					^
Stage 2 305 - - - - - Critical Hdwy 6.42 6.22 4.12 - - - Critical Hdwy Stg 1 5.42 - - - - - Critical Hdwy Stg 2 5.42 - - - - - Follow-up Hdwy 3.518 3.318 2.218 - - - Pot Cap-1 Maneuver 425 684 1185 - - - Stage 1 705 - - - - - Stage 2 748 - - - - - Mov Cap-1 Maneuver 420 684 1185 - - - - Mov Cap-2 Maneuver 420 - <td< td=""><td></td><td></td><td>MISSIA TERRORISA</td><td>SECTION AND DE</td><td></td><td>SECTION SECTION</td><td></td></td<>			MISSIA TERRORISA	SECTION AND DE		SECTION SECTION	
Critical Hdwy 6.42 6.22 4.12 - - - Critical Hdwy Stg 1 5.42 - - - - - Critical Hdwy Stg 2 5.42 - - - - - Follow-up Hdwy 3.518 3.318 2.218 - - - Pot Cap-1 Maneuver 425 684 1185 - - - - Stage 1 705 - <t< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></t<>				-			
Critical Hdwy Stg 1 5.42 - - - - Critical Hdwy Stg 2 5.42 - - - - Follow-up Hdwy 3.518 3.318 2.218 - - - Pot Cap-1 Maneuver 425 684 1185 - - - - Stage 1 705 - <td></td> <td></td> <td></td> <td>4 12</td> <td>_</td> <td></td> <td></td>				4 12	_		
Critical Hdwy Stg 2 5.42 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <th< td=""><td></td><td></td><td>AVES DESCRIPTION OF THE PARTY O</td><td>A SECTION AND DESCRIPTION</td><td></td><td></td><td></td></th<>			AVES DESCRIPTION OF THE PARTY O	A SECTION AND DESCRIPTION			
Follow-up Hdwy 3.518 3.318 2.218			and the second second	CONTRACTOR OF THE PARTY OF THE	_	THE STATE OF THE S	
Pot Cap-1 Maneuver			3.318	2.218	-	-	-
Stage 1 705 -					-	-	-
Platoon blocked, % - - - Mov Cap-1 Maneuver 420 684 1185 - - Mov Cap-2 Maneuver 420 - - - - - Stage 1 697 - - - - - - Stage 2 748 -	The second secon	705	-	-	-	_	-
Mov Cap-1 Maneuver 420 684 1185 - <td></td> <td>748</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		748	-	-	-	-	-
Mov Cap-2 Maneuver 420 -				Name (September 1999)	-	-	-
Stage 1 697 -			684	1185	-	-	-
Stage 2 748 -			-	-	_	-	-
Approach EB NB SB HCM Control Delay, s 12.7 0.3 0 HCM LOS B Minor Lane/Major Mvmt NBL NBT EBLn1 SBR Capacity (veh/h) 1185 - 493 HCM Lane V/C Ratio 0.009 - 0.057 HCM Control Delay (s) 8.1 0 12.7 HCM Lane LOS A A B			-		-	-	-
HCM Control Delay, s 12.7 0.3 0 HCM LOS B Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1185 - 493 HCM Lane V/C Ratio 0.009 - 0.057 HCM Control Delay (s) 8.1 0 12.7 HCM Lane LOS A A B	Stage 2	/48	-	-	-	_	-
HCM Control Delay, s 12.7 0.3 0 HCM LOS B Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1185 - 493 HCM Lane V/C Ratio 0.009 - 0.057 HCM Control Delay (s) 8.1 0 12.7 HCM Lane LOS A A B							
Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1185 - 493 - - HCM Lane V/C Ratio 0.009 - 0.057 - - HCM Control Delay (s) 8.1 0 12.7 - - HCM Lane LOS A A B - -		EB		NB		SB	
Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1185 - 493 - - HCM Lane V/C Ratio 0.009 - 0.057 - - HCM Control Delay (s) 8.1 0 12.7 - - HCM Lane LOS A A B - -				0.3		0	
Capacity (veh/h) 1185 - 493 HCM Lane V/C Ratio 0.009 - 0.057 HCM Control Delay (s) 8.1 0 12.7 HCM Lane LOS A A B	HCM LOS	В					
Capacity (veh/h) 1185 - 493 HCM Lane V/C Ratio 0.009 - 0.057 HCM Control Delay (s) 8.1 0 12.7 HCM Lane LOS A A B							
Capacity (veh/h) 1185 - 493 HCM Lane V/C Ratio 0.009 - 0.057 HCM Control Delay (s) 8.1 0 12.7 HCM Lane LOS A A B	Minor Lane/Major Mvn	nt	NBL	NBT	EBLn1	SBT	SBR
HCM Lane V/C Ratio 0.009 - 0.057 HCM Control Delay (s) 8.1 0 12.7 HCM Lane LOS A A B	Particular de la companya del companya del companya de la companya			Victoria de la composición dela composición de la composición de la composición dela composición dela composición dela composición dela composición de la composición de la composición de la composición dela composición d		-	
HCM Control Delay (s) 8.1 0 12.7 HCM Lane LOS A A B				-		_	-
				AND DESCRIPTION OF THE PERSON NAMED IN		-	-
HCM 95th %tile Q(veh) 0 - 0.2				Α		-	-
	HCM 95th %tile Q(veh)	0	-	0.2	-	-

Intersection						
Int Delay, s/veh	1.2			Anna de la constanta de la con		
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	N/		TIDL	स	1	CDIT
Traffic Vol, veh/h	46	10	2	224	301	30
Future Vol, veh/h	46	10	2	224	301	30
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	-	None	-	None
Storage Length	0	NONE -	-	None -	_	None -
			erre deleter vane	Democratica use spice.	LIGHT HOUSE THE PARTY	
Veh in Median Storage			-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	50	11	2	243	327	33
Major/Minor I	Minor2		Major1	D	Major2	
Conflicting Flow All	591	344	360	0	_	0
Stage 1	344	-	-	_		-
Stage 2	247	_	-	-	-	- -
Critical Hdwy	6.42	6.22	4.12	_	_	_
Critical Hdwy Stg 1	5.42	0.22	4.12	-	- -	-
Critical Hdwy Stg 2	5.42	- -				
Follow-up Hdwy		3.318	2 240	-	-	-
				- 	-	- Department
Pot Cap-1 Maneuver	470	699	1199	-	-	-
Stage 1	718	-	-	-	-	-
Stage 2	794	-	7	-	-	-
Platoon blocked, %	400	200	1100		-	-
Mov Cap-1 Maneuver	469	699	1199	-	-	-
Mov Cap-2 Maneuver	469	-	-	-	-	_
Stage 1	717	-	-	-	-	-
Stage 2	794	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	13.2		0.1		0	
HCM LOS	В		0.1		U	
HOW LOO	ט					
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1199	_	498	1	-
HCM Lane V/C Ratio		0.002	-	0.122	-	-
HCM Control Delay (s)		8	0	13.2	-	-
HCM Lane LOS		Α	Α	В	-	-
HCM 95th %tile Q(veh))	0	<u> </u>	0.4	-	-
7/10/1				J.,		

Intersection						
Int Delay, s/veh	0.6			42		
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			र्स	4	ODIT
Traffic Vol, veh/h	5	9	21	221	289	22
Future Vol, veh/h	5	9	21	221	289	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None		None		None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		_	_	0	0	_
Grade, %	0	_	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	5	10	23	240	314	24
	•	10	20	270	017	27
		Arresta Managabana		V-10-10-10-10-10-10-10-10-10-10-10-10-10-		
	Minor2		Major1	4	Major2	
Conflicting Flow All	612	326	338	0	-	0
Stage 1	326	-	-	-	•	-
Stage 2	286	-		-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	_	-	_
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	456	715	1221	-	-	_
Stage 1	731	-	-	-	-	-
Stage 2	763	-	-	_	-	_
Platoon blocked, %			WIE 2014 CH 2 4 CH 2	-	_	_
Mov Cap-1 Maneuver	446	715	1221	_	_	_
Mov Cap-2 Maneuver	446	-	-	_	_	_
Stage 1	715			_	_	
Stage 2	763	_		• • • • • • • • • • • • • • • • • • •	-	
- igo -	, 00					
Approach	EB		NB		SB	
HCM Control Delay, s	11.3		0.7		0	
HCM LOS	В					
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR
Capacity (veh/h)		1221				אוטט
HCM Lane V/C Ratio		0.019	-	588 0.026	-	-
HCM Control Delay (s)		0.019		11.3	-	-
HCM Lane LOS		THE RESIDENCE OF THE PERSON NAMED IN	0	Transfer and the second of the second	- 1 -	-
HCM 95th %tile Q(veh	1	0.1	Α	B	-	- 6900000
HOW SOUL WHIE CALACT	1	0.1	-	0.1	-	-

			3										
	*	\rightarrow	*	•	+	*	1	†	-	1	↓	1	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			स	7	ሻ	ĥ		
Traffic Volume (vph)	3	1	1	69	1	41	1	198	125	58	230	10	
Future Volume (vph)	3	1	1	69	1	41	1	198	125	58	230	10	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0		0	0	1000	0	0	1000	160	175	1000	0	
Storage Lanes	0		0	0		0	0		100	1/3		0	
Taper Length (ft)	25		· ·	25		O	25			25		U	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Frt	1100	0.973	1.00	1.00	0.950	1.00	1.00	1.00	0.850	1.00	0.994	1.00	
Flt Protected		0.971			0.970				0.000	0.950	0.994		
Satd. Flow (prot)	0	1760	0	0	1717	0	0	1863	1583	1770	1852	0	
Flt Permitted		0.820	Ü	U	0.808		U	0.999	1000	0.374	1002	0	
Satd. Flow (perm)	0	1486	0	0	1430	0	0	1861	1583		1050	^	
Right Turn on Red	U	1400	Yes	U	1430	Yes	U	1001		697	1852	0	
Satd. Flow (RTOR)		1	100		37	168			Yes		0	Yes	
Link Speed (mph)		20			20			25	136		8		
Link Distance (ft)		555			558			35			35		
Travel Time (s)		18.9						246		BARNSANO.	389		
Peak Hour Factor	0.92	0.92	0.92	0.00	19.0	0.00	0.00	4.8	0.00	0.00	7.6	0.00	
Adj. Flow (vph)	0.92	CONTRACTOR OF THE PARTY OF THE	THE RESERVE AND ADDRESS OF THE PARTY OF THE	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
AND THE PROPERTY OF THE PROPER	ა	1	1	75	1	45	1	215	136	63	250	11	
Shared Lane Traffic (%)	0		0	^	404							Name of the last o	
Lane Group Flow (vph) Enter Blocked Intersection	0	5	0	0	121	0	0	216	136	63	261	0	
	No	No	No	No	No	No	No	No	No	No	No	No	
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right	
Median Width(ft)		0			0			12			12	Marka Name December	
Link Offset(ft)		0			0			0			0		
Crosswalk Width(ft)		16			16			16			16		
Two way Left Turn Lane													
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15		9	15		9	15		9	15		9	
Turn Type	Perm	NA		Perm	NA		Perm	NA	Perm	Perm	NA	CO Securio Sella consumo	
Protected Phases		4			4			2			12		
Permitted Phases	4	4		4	4		2	2	2	12	12	Company Company Company	
Detector Phase	4	4		4	4		2	2	2	12	12		
Switch Phase	7.0		ning (last) are the second							NOT SECURITION AND ADDRESS OF A SECURITION AND A SECURITI			
Minimum Initial (s)	7.0	7.0		7.0	7.0		15.0	15.0	15.0				
Minimum Split (s)	11.0	11.0		11.0	11.0		19.0	19.0	19.0				
Total Split (s)	17.0	17.0		17.0	17.0		41.0	41.0	41.0				
Total Split (%)	24.3%	24.3%		24.3%	24.3%		58.6%	58.6%	58.6%				
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0	3.0				
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0	1.0				
Lost Time Adjust (s)		0.0			0.0			0.0	0.0				
Total Lost Time (s)		4.0			4.0			4.0	4.0		***************************************	ATTENDED FOR THE PARTY OF	
Lead/Lag							Lag	Lag	Lag				
Lead-Lag Optimize?							-						
Recall Mode	None	None		None	None		Min	Min	Min				
Act Effct Green (s)		8.6			8.6			16.2	16.2	29.1	29.1		
Actuated g/C Ratio		0.21			0.21			0.40	0.40	0.71	0.71		
v/c Ratio		0.02			0.37			0.29	0.19	0.13	0.20		

	≯	-	*	*	-	*	1	†	1	1	↓	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Control Delay		13.8			15.2			11.7	3.5	4.3	3.8	
Queue Delay		0.0			0.0		***************	0.0	0.0	0.0	0.0	
Total Delay		13.8			15.2			11.7	3.5	4.3	3.8	
LOS		В			В			В	Α	Α	А	
Approach Delay		13.8			15.2			8.5			3.9	
Approach LOS		В			В			Α	CONTRACTOR	and the state of t	Α	NAME OF STORY OF
Queue Length 50th (ft)		1			17			36	0	4	18	
Queue Length 95th (ft)		7			56			85	26	18	50	
Internal Link Dist (ft)		475			478			166			309	
Turn Bay Length (ft)									160	175	PROBLEM PROCESS TO COLUMN AND AND ADDRESS.	
Base Capacity (vph)		492			498			1629	1402	684	1817	
Starvation Cap Reductn		0			0			0	0	0	0	
Spillback Cap Reductn		0			0			0	0	0	0	
Storage Cap Reductn		0			0			0	0	0	0	
Reduced v/c Ratio		0.01			0.24			0.13	0.10	0.09	0.14	
Intersection Summary												
Area Type: C	Other											
Cycle Length: 70												
Actuated Cycle Length: 40.9												
Natural Cycle: 40												
Control Type: Semi Act-Unco	ord											
Maximum v/c Ratio: 0.37												
Intersection Signal Delay: 7.7				In	tersection	LOS: A						
Intersection Capacity Utilizati	on 43.0%			IC	CU Level of	of Service	Α					
Analysis Period (min) 15												
Splits and Phases: 9: Ship	pan & Harbo	oursite/0	Cummina	S								
	Ø2		9					rottanatu kulusukusukusukusuku	4	4		

Intersection						
Int Delay, s/veh	0.6				tion in	
			1151	115=	05-	055
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M			स	B	
Traffic Vol, veh/h	16	7	9	261	324	25
Future Vol, veh/h	16	7	9	261	324	25
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e,# 0	-	70 E	0	0	_
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	17	8	10	284	352	27
WWW.CT IOW		•	10	201	002	- '
6.4. ' /6.4'	N 4: 0					
	Minor2		Major1		Major2	
Conflicting Flow All	670	366	379	0		0
Stage 1	366	-	-	-	-	-
Stage 2	304	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318	2.218	-	-	-
Pot Cap-1 Maneuver	422	679	1179		-	-
Stage 1	702	-	-	-	-	-
Stage 2	748	-	-	-	-	-
Platoon blocked, %	CATHOLIC PERIOD OF STREET			-	-	_
Mov Cap-1 Maneuver	418	679	1179		_	_
Mov Cap-2 Maneuver	418	-	-	-	_	-
Stage 1	695		_	_	_	_
Stage 2	748	-	-	_	in 10 %	-
Olago Z	740					
Approach	EB		NB		SB	
HCM Control Delay, s	13		0.3		0	
HCM LOS	В					
Minor Lane/Major Mvr	nt	NBL	MRT	EBLn1	SBT	SBR
	iit	A STATE OF THE PARTY OF THE PAR	SPECIAL SPECIAL PROPERTY.			SDR
Capacity (veh/h)		1179	-		-	-
HCM Cantral Dalay	1	0.008	-	0.053	-	-
HCM Control Delay (s)	8.1	0		-	-
HCM Lane LOS		A	Α		-	-
HCM 95th %tile Q(veh	1)	0	-	0.2	-	-

Intersection						
Int Delay, s/veh	1.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			4	1>	JJI
Traffic Vol, veh/h	43	16	7	227	302	29
Future Vol, veh/h	43	16	7	227	302	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	CHEST CONTRACTOR	-	None
Storage Length	0	-	_	-	-	-
Veh in Median Storage		_	_	0	0	_
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	47	17	8	247	328	32
intinct ion				- 11	020	02
		Version and the second				
	Minor2		Major1	Λ	Major2	
Conflicting Flow All	607	344	360	0	-	0
Stage 1	344		-	-	-	_
Stage 2	263	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	_
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	460	699	1199	-	-	-
Stage 1	718	-	-	-	-	-
Stage 2	781	-	-	-	-	_
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	456	699	1199	_	-	-
Mov Cap-2 Maneuver	456	-	-	-	-	-
Stage 1	712	-	-	-	-	-
Stage 2	781	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	13.2		0.2		0	
HCM LOS	13.2 B		0.2		U	
HOW LOS	D					
Minor Lane/Major Mvn	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1199	-	503	-	-
HCM Lane V/C Ratio		0.006	-	0.127	-	-
HCM Control Delay (s)		8	0	13.2	-	_
TICIVI CONTITOI Delay (5,	AND DESCRIPTION OF THE PARTY OF					
HCM Lane LOS		Α	Α		-	-

Intersection						
Int Delay, s/veh	0.6					
	MINISTER STATE OF THE STATE OF					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	N.			र्स	7>	
Traffic Vol, veh/h	10	9	19	224	302	16
Future Vol, veh/h	10	9	19	224	302	16
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None		None	_	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage,	, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	11	10	21	243	328	17
Will be And Calculation of the Calculation of the Calculation				-		
	Minor2		Major1	Ŋ	Major2	
Conflicting Flow All	622	337	345	0	-	0
Stage 1	337	-	-	-	-	-
Stage 2	285	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	_	-	-	-
	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	450	705	1214	-	-	-
Stage 1	723	-	-	-	-	-
Stage 2	763	-	-	-	-	-
Platoon blocked, %		NOTE OF THE REAL PROPERTY.		-	-	
Mov Cap-1 Maneuver	441	705	1214	_	_	<u>-</u>
Mov Cap-2 Maneuver	441		1217	_	**************************************	
Stage 1	709	-		-	-	<u>-</u>
Stage 2	763	-			-	-
Olayo Z	100	- 	<u>-</u>	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	12		0.6		0	
HCM LOS	В					
NA:	,	NDI	NDT	-DI 4	007	000
Minor Lane/Major Mvm	I	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1214	-		-	-
		0.017	-	0.039	-	-
HCM Lane V/C Ratio						
HCM Control Delay (s)		8	0	12	-	-
MATERIAL CONTRACTOR CO				12 B 0.1	- -	-

	•	→	*	1	-	*	1	†	1	-	+	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		44>			4			ર્લ	7	1	ĵ»	
Traffic Volume (vph)	5	1	6	64	1	16	1	222	59	15	290	6
Future Volume (vph)	5	1	6	64	1	16	1	222	59	15	290	6
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	1000	0	0	1300	0	0	1900	160	175	1900	THE RESIDENCE OF THE PARTY OF T
Storage Lanes	0		0	0		0	0		100	1/3		0
Taper Length (ft)	25		U	25		U	25		ı	25		0
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.927	1.00	1.00	0.974	1.00	1.00	1.00	0.850	1.00	0.997	1.00
Flt Protected		0.981							0.000	0.050	0.997	
Satd. Flow (prot)	0	1694	0	^	0.962	^	^	4000	4500	0.950	4057	
Flt Permitted	U	0.871	U	0	1745	0	0	1863	1583	1770	1857	0
Satd. Flow (perm)	٨		^	^	0.781	0	_	0.999	4500	0.362	4057	
NATIONAL AND ADDRESS OF THE PARTY OF THE PAR	0	1504	0	0	1417	0	0	1861	1583	674	1857	0
Right Turn on Red		7	Yes		4-	Yes			Yes			Yes
Satd. Flow (RTOR)		7			15				64		4	
Link Speed (mph)		20			20			35			35	
Link Distance (ft)		555			558			246	SOURCE AND A SOURCE OF THE SOU		389	
Travel Time (s)	0.00	18.9	2.00		19.0			4.8			7.6	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	5	1	7	70	1	17	1	241	64	16	315	7
Shared Lane Traffic (%)		Will have been been been been been been been be										
Lane Group Flow (vph)	0	13	0	0	88	0	0	242	64	16	322	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2	1	1	2	With the season of the season of
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100	20	20	100	PROFES AND AND ASSESSED.
Trailing Detector (ft)	0	0		0	0		0	0	0	0	0	
Detector 1 Position(ft)	0	0		0	0		0	0	0	0	0	
Detector 1 Size(ft)	20	6		20	6		20	6	20	20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	Report responsible residences
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	MARK CHISTOSIC SCORE ATTRICE	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel								J. LA			OI. EX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	. 01111	4		1 31111	4		1 GIIII	2	i Gilli	i Gilli	12	
Permitted Phases	4	4		4	4		2	2	2	12		
. C.TIMOG I HOOO	7	4		4	4		2	2	2	1 2	12	

41/	Shippan	Avenue,	Stamford,	CI
		Existing Sa	aturday Midday	Peak

	*	\rightarrow	*	•	-	•	4	†	1	-	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	4	4		4	4		2	2	2	12	12	
Switch Phase												
Minimum Initial (s)	7.0	7.0		7.0	7.0		15.0	15.0	15.0			
Minimum Split (s)	11.0	11.0		11.0	11.0		19.0	19.0	19.0			
Total Split (s)	17.0	17.0		17.0	17.0		41.0	41.0	41.0			
Total Split (%)	24.3%	24.3%		24.3%	24.3%		58.6%	58.6%	58.6%			
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0	3.0			
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0	1.0			
Lost Time Adjust (s)		0.0			0.0			0.0	0.0			
Total Lost Time (s)		4.0			4.0		- purchase street	4.0	4.0			
Lead/Lag							Lag	Lag	Lag			
Lead-Lag Optimize?									•			
Recall Mode	None	None		None	None		Min	Min	Min			
Act Effct Green (s)		8.3			8.3			16.4	16.4	30.4	30.4	
Actuated g/C Ratio		0.22			0.22			0.42	0.42	0.79	0.79	
v/c Ratio		0.04	PARTICIPALITY (1910)	6 TO 10 TO 1	0.28			0.31	0.09	0.03	0.22	
Control Delay		11.9			15.8			11.0	3.9	3.3	3.3	
Queue Delay		0.0			0.0			0.0	0.0	0.0	0.0	
Total Delay		11.9			15.8			11.0	3.9	3.3	3.3	
LOS		В		NOTE ACCESSED TO LINE OF STREET	В			В	А	Α	Α	
Approach Delay		11.9			15.8			9.5			3.3	
Approach LOS		В			В		A	А			Α	Marie Marie Marie Consider
Queue Length 50th (ft)		1			15			41	0	1	23	
Queue Length 95th (ft)		12			48			92	17	6	59	
Internal Link Dist (ft)		475			478			166			309	
Turn Bay Length (ft)									160	175		
Base Capacity (vph)		537			511			1664	1422	665	1831	
Starvation Cap Reductn		0			0			0	0	0	0	
Spillback Cap Reductn		0			0			0	0	0	0	
Storage Cap Reductn		0			0			0	0	0	0	
Reduced v/c Ratio		0.02			0.17			0.15	0.05	0.02	0.18	
Intersection Summary												
Area Type:	Other		No.						Mara sani			
Cycle Length: 70												
Actuated Cycle Length: 38.	6											
Natural Cycle: 40												
Control Type: Semi Act-Und	coord											
Maximum v/c Ratio: 0.31												
Intersection Signal Delay: 7	7.5			lr	ntersection	I OS: A						
Intersection Capacity Utiliza					CU Level		A			and of the same		
Analysis Period (min) 15					2 23 701 (25/1100	•					
Splits and Phases: 9: Shi	ippan & Ha	rboursite/0	Cumming	S								
	Tø2								\$			(1000)
12 s 41	AND DESCRIPTION OF A STREET, SHOWING THE PARTY OF THE PAR								175	4		

Exhibit 11
Traffic Operations Analyses
Background (no-build) Peak Hour Traffic Volumes
417 Shippan Avenue Study Area
Stamford, Connecticut

Intersection						
Int Delay, s/veh	0.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M.	LUIN	INDL	4	1	ODIN
Traffic Vol, veh/h	17	10	10	270	334	23
Future Vol, veh/h	17	10	10	270	334	23
	0	0	0	0	0	23
Conflicting Peds, #/hr				Free	Free	Free
Sign Control RT Channelized	Stop	Stop	Free	NO TO LOUIS DE LA COMPANSION DE LA COMPA		
form the control of t	-	None	-	None	<u>-</u>	None
Storage Length	0	-	<u>-</u>	-	-	-
Veh in Median Storage	Control of the Contro	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	18	11	11	293	363	25
Major/Minor	Minor2	1	Major1	Ň	Major2	
Conflicting Flow All	691	376	388	0	najorz	0
Stage 1	376	3/0	300			-
Stage 2	315		•	-	-	
		- 000	110	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318		-	-	
Pot Cap-1 Maneuver	410	670	1170	-	-	-
Stage 1	694	-	EDWIN CARDINATOR	-	-	_
Stage 2	740	-	-	-	-	-
Platoon blocked, %				-	-	-
Moy Cap-1 Maneuver	405	670	1170	-	-	-
Mov Cap-2 Maneuver	405	-	-	-	-	-
Stage 1	686	-	-	-	-	-
Stage 2	740	-	-	-	-	-
Approach	EB		NB		SB	
Control Control Control Company and Control Co	13.1		0.3			
HCM Control Delay, s HCM LOS			0.3		0	
UCINI FO2	В					
Minor Lane/Major Mvm	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1170	_	475		_
HCM Lane V/C Ratio		0.009	_	0.062	-	_
HCM Control Delay (s))	8.1	0	CONTRACTOR CONTRACTOR CONTRACTOR	_	_
HCM Lane LOS		A	A	В	-	-
HCM 95th %tile Q(veh)	0		0.2	_	_
	1	J		0.2		

Intersection							
Int Delay, s/veh	1.3						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	**			र्स	1		
Traffic Vol, veh/h	48	10	2	233	313	31	
Future Vol, veh/h	48	10	2	233	313	31	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized		None	-	None	-	None	
Storage Length	0	-	-	-	-	-	
Veh in Median Storage	e, # 0	=	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	52	11	2	253	340	34	
Major/Minor	Minor2		Major1	Ŋ	Major2		
Conflicting Flow All	614	357	374	0	-	0	
Stage 1	357				_	_	
Stage 2	257	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	_	_	_	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	_	-	
Follow-up Hdwy	3.518	3.318	2.218	-	-	_	
Pot Cap-1 Maneuver	455	687	1184	-	-	_	
Stage 1	708	-	-	-	-	-	
Stage 2	786	-	-	-	-	_	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	454	687	1184	_	-	_	
Mov Cap-2 Maneuver	454	-	-	-	-	-	
Stage 1	707	-	-	-	- (S	-	
Stage 2	786	-	-	-	-	-	
Approach	EB		NB		SB		
HCM Control Delay, s	13.6		0.1		0		
HCM LOS	В		U .1		J		
	J						
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR	
Capacity (veh/h)		1184			-	ODIT	
HCM Lane V/C Ratio		0.002		0.131	-	-	
HCM Control Delay (s)		8	0	13.6	-	<u>-</u>	
HCM Lane LOS		A	A	13.0 B	_	-	
HCM 95th %tile Q(veh)	0		0.4	_		
. S. H OULT TOUTO W(VCI)	1	U		U. 4	_		

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			ર્ન	13	
Traffic Vol, veh/h	5	9	22	230	301	23
Future Vol, veh/h	5	9	22	230	301	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	THE RESIDENCE PROPERTY.	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	10	24	250	327	25
Major/Minor	Minor2	ı	Major1	Λ	//ajor2	
Conflicting Flow All	638	340	352	0	najorz	0
Stage 1	340	340	332	-	- 	-
Stage 2	298	-		-	-	-
Critical Hdwy	6.42	6.22	4.12	<u>-</u>	-	-
Critical Hdwy Stg 1	5.42	0.22	7.12	<u>-</u>	-	_
Critical Hdwy Stg 2	5.42	-	-	-	-	_
Follow-up Hdwy		3.318	2 210	-	-	
Pot Cap-1 Maneuver	441	702	1207	-	-	-
Stage 1	721	102	1201	-	-	-
Stage 2	753	-	-	-	- -	-
Platoon blocked, %	100	•		-		
Mov Cap-1 Maneuver	431	702	1207	- 	- 100 (100 (100 (100 (100 (100 (100 (100	- - -
Mov Cap-1 Maneuver	431	102	1207	-	-	
	704	-	-	-	- 6:53:33:22	-
Stage 1		-	-	-	-	-
Stage 2	753	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	11.5		0.7		0	
HCM LOS	В					
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1207				
HCM Lane V/C Ratio		0.02		0.027	1000 (1000) -	-
HCM Control Delay (s		8	0	11.5	_	_
HCM Lane LOS		A	A	В	-	-
HCM 95th %tile Q(veh)	0.1	_	The Colonian Colonian	_	_
	1	0.1		0.1		Matter School

	۶	→	*	•	+	*	4	†	~	1	ļ	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			€\$			લી	7	7	7>	
Traffic Volume (vph)	3	1	1	72	1	43	1	206	130	60	239	10
Future Volume (vph)	3	1	1	72	1	43	1	206	130	60	239	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		0	0		160	175		0
Storage Lanes	0		0	0		0	0		1	1		0
Taper Length (ft)	25		and House to the Late of the And	25		DIPPORTED PAGE AND CLASS	25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.973			0.950				0.850		0.994	
Flt Protected		0.971			0.970					0.950		
Satd. Flow (prot)	0	1760	0	0	1717	0	0	1863	1583	1770	1852	0
Flt Permitted		0.820			0.809			0.999		0.370		
Satd. Flow (perm)	0	1486	0	0	1432	0	0	1861	1583	689	1852	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1		POWER STREET, PROPERTY AUTO	38				141		8	
Link Speed (mph)		20			20			35			35	
Link Distance (ft)		555			558			246			389	New 2019 REQUESTED IN
Travel Time (s)		18.9			19.0			4.8			7.6	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	3	1	1	78	1	47	1	224	141	65	260	11
Shared Lane Traffic (%)												ARREST MATERIAL A
Lane Group Flow (vph)	0	5	0	0	126	0	0	225	141	65	271	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Turn Type	Perm	NA		Perm	NA		Perm	NA	Perm	Perm	NA	SHELLERS CHARGES COLOR STOLEN
Protected Phases		4			4			2			12	
Permitted Phases	4	4		4	4		2	2	2	12	12	
Detector Phase	4	4		4	4		2	2	2	12	12	
Switch Phase									4,000,000,000			
Minimum Initial (s)	7.0	7.0		7.0	7.0		15.0	15.0	15.0			
Minimum Split (s)	11.0	11.0		11.0	11.0		19.0	19.0	19.0			
Total Split (s)	17.0	17.0		17.0	17.0		41.0	41.0	41.0			
Total Split (%)	24.3%	24.3%		24.3%	24.3%		58.6%	58.6%	58.6%			STANDED PROBLEMS OF STANDESS AND
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0	3.0			
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0	1.0			
Lost Time Adjust (s)		0.0			0.0			0.0	0.0			
Total Lost Time (s)		4.0			4.0			4.0	4.0			
Lead/Lag							Lag	Lag	Lag			
Lead-Lag Optimize?							<u> </u>	J	9			
Recall Mode	None	None		None	None		Min	Min	Min			
Act Effct Green (s)		8.7			8.7			16.3	16.3	29.2	29.2	
Actuated g/C Ratio		0.21			0.21			0.40	0.40	0.71	0.71	
v/c Ratio		0.02			0.38			0.31	0.20	0.13	0.21	

	*	→	*	1	←	*	1	†	-	-	↓	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Control Delay		14.0			15.5			11.9	3.5	4.4	3.9	
Queue Delay		0.0			0.0			0.0	0.0	0.0	0.0	yarterii (yaaassi ji la inst
Total Delay		14.0			15.5			11.9	3.5	4.4	3.9	
LOS		В			В		CATOMICS ACTION	В	Α	Α	Α	
Approach Delay		14.0			15.5			8.7			4.0	
Approach LOS		В			В			Α			Α	Nation of the Control
Queue Length 50th (ft)		1			18			38	0	5	20	
Queue Length 95th (ft)		7			58			89	27	19	52	
Internal Link Dist (ft)		475			478			166			309	
Turn Bay Length (ft)									160	175		
Base Capacity (vph)		489			496			1619	1396	673	1809	
Starvation Cap Reductn		0			0			0	0	0	0	ALCOHOLOGY CONTRACTOR
Spillback Cap Reductn		0			0			0	0	0	0	
Storage Cap Reductn		0			0			0	0	0	0	
Reduced v/c Ratio		0.01			0.25			0.14	0.10	0.10	0.15	
Intersection Summary												
	Other											
Cycle Length: 70												
Actuated Cycle Length: 41.2												
Natural Cycle: 40												
Control Type: Semi Act-Unco	oord											
Maximum v/c Ratio: 0.38												
Intersection Signal Delay: 7.					ntersection							
Intersection Capacity Utilizat	ion 43.8%			10	CU Level	of Service	Α					
Analysis Period (min) 15												
Splits and Phases: 9: Ship	pan & Harl	boursite/0	Cummina	S								
	Ø2	2 2 3 7 5 1 5 7 6							4	4		

	,		

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	13	
Traffic Vol, veh/h	17	7	9	271	337	26
Future Vol, veh/h	17	7	9	271	337	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	_	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	18	8	10	295	366	28
Major/Minor	Minor2		Major1	1	/lajor2	
Conflicting Flow All	695	380	394	0	-	0
Stage 1	380		-	-	-	-
Stage 2	315	-	-	-	<u>-</u>	-
Critical Hdwy	6.42	6.22	4.12	-	-	_
Critical Hdwy Stg 1	5.42	-	-	-	_	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	408	667	1165	-	-	-
Stage 1	691	-	-	-	-	-
Stage 2	740	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	404	667	1165	_	-	-
Mov Cap-2 Maneuver	404	-	-	-	-	-
Stage 1	684	-	-	-	-	-
Stage 2	740	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	13.4		0.3		0	
HCM LOS	13.4 B		0.3		U	
1.000	ט					
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR
Capacity (veh/h)		1165	-	456	- 001	ODIT
HCM Lane V/C Ratio		0.008		0.057	- -	- -
HCM Control Delay (s)		8.1	0	13.4	- -	_
HCM Lane LOS		Α	A	13.4 B	-	-
HCM 95th %tile Q(veh)	0		0.2	_	
	1	U		0.2		

Intersection							
Int Delay, s/veh	1.4						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	N/W			र्स	7		
Traffic Vol., veh/h	45	17	7	236	314	30	
-uture Vol, veh/h	45	17	7	236	314	30	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized		None	-	None	-	None	
Storage Length	0	-	-	-	-	-	
eh in Median Storage	e, # 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	
leavy Vehicles, %	2	2	2	2	2	2	
Nvmt Flow	49	18	8	257	341	33	
Major/Minor	Minor2		Major1	١	/lajor2		
Conflicting Flow All	631	358	374	0	-	0	
Stage 1	358	-	-	-		-	
Stage 2	273	_		_	_	<u>-</u>	
Critical Hdwy	6.42	6.22	4.12	_			
Critical Hdwy Stg 1	5.42	0.22		-	-		
Critical Hdwy Stg 2	5.42						
Follow-up Hdwy		3.318	2.218	-	-	_	
Pot Cap-1 Maneuver	445	686	1184	_	_	_	
Stage 1	707	-	-	-		_	
Stage 2	773		_	_	_	_	
Platoon blocked, %				-		-	
Mov Cap-1 Maneuver	441	686	1184	_	_	40 mm_1	
Mov Cap-2 Maneuver	441	-		_	_	_	
Stage 1	701	-	_	_	_	-	
Stage 2	773	-	-	-	-	-	
Approach	EB		NB		SB		
HCM Control Delay, s	13.5		0.2				
HCM LOS	13.5 B		0.2		0		
IOIVI LOS	Ď						
Minor Long/Maine Ed		NDI	NET	EDL 4	ODT	000	
Minor Lane/Major Mvn	11	NBL		EBLn1	SBT	SBR	
Capacity (veh/h)		1184	-	.00	-	-	
HCM Lane V/C Ratio		0.006		0.138	-	_	
HCM Control Delay (s)		8.1	0	13.5	•	-	
HCM Lane LOS	Name of the Owner	Α	Α	В	-	_	
HCM 95th %tile Q(veh)	0	-	0.5	-	-	

Second S	Intersection							
ane Configurations Y	Int Delay, s/veh	0.6						
riaffic Vol., veh/h 10 9 20 233 314 17 vonflicting Pods, #hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement		EBR	NBL	NBT	SBT	SBR	
riaffic Vol., veh/h 10 9 20 233 314 17 vonflicting Pods, #hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Lane Configurations	M			स	1		
Conflicting Peds, #hr 0	Traffic Vol, veh/h		9	20			17	
Sign Control Stop Free None Sone Combined	Future Vol, veh/h	10	9	20	233	314	17	
Aginfillating Flow All 647 350 359 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Conflicting Peds, #/hr	0	0	0	0	0	0	
Storage Length	Sign Control	Stop	Stop	Free	Free	Free	Free	
/eh in Median Storage, # 0	RT Channelized	-	None	-	None	-	None	
Grade, % 0 0 0 0 - 6284 Hour Factor 92 92 92 92 92 92 92 92 92 82 92 92 92 92 92 92 92 92 92 92 92 92 92	Storage Length		-	-	-	-	-	
Peak Hour Factor 92 92 92 92 92 92 92 92 92 92 92 92 92		, # 0	-	-	0	0	-	
Heavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Grade, %	0	-	-	0	0	-	The state of the s
Agori/Minor Minor2 Major1 Major2 Conflicting Flow All 647 350 359 0 - 0 Stage 1 350	Peak Hour Factor			92	92	92	92	
Major/Minor Minor2 Major1 Major2 Conflicting Flow All 647 350 359 0 - 0 Stage 1 350 Stage 2 297	Heavy Vehicles, %		2	2	2	2	2	The state of the s
Conflicting Flow All	Mvmt Flow	11	10	22	253	341	18	
Conflicting Flow All								
Conflicting Flow All	Major/Minor	Minor2		Maior1	N	/laior2		
Stage 1 350 - - - - -							0	
Stage 2						_		
Critical Hdwy Stg 1 5.42			_	<u>-</u>		_	-	
Critical Hdwy Stg 1			6.22	4.12	_	_	_	
Critical Hdwy Stg 2 5.42	THE RESERVE OF THE RESERVE OF THE PROPERTY OF		-	-			-	
Follow-up Hdwy 3.518 3.318 2.218			-	<u>.</u>	-	_	_	
Pot Cap-1 Maneuver			3.318	2.218	-	-		
Stage 1 713					_	-	_	
Stage 2 754	WAS THE THE PARTY OF THE PARTY	713	-	-	-	-	-	
Mov Cap-1 Maneuver		754	-	-	-	-	-	
Mov Cap-2 Maneuver	Platoon blocked, %				-	-	-	
Stage 1 698 -	Mov Cap-1 Maneuver	427	693	1200	_	-	-	
Stage 2 754	Mov Cap-2 Maneuver	427	-	-	-	-	-	
Approach EB NB SB HCM Control Delay, s 12.2 0.6 0 HCM LOS B Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1200 - 522 HCM Lane V/C Ratio 0.018 - 0.04 HCM Control Delay (s) 8.1 0 12.2 HCM Lane LOS A A B	Stage 1	698	-	-	-	-		
HCM Control Delay, s 12.2 0.6 0 HCM LOS B Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1200 - 522 HCM Lane V/C Ratio 0.018 - 0.04 HCM Control Delay (s) 8.1 0 12.2 HCM Lane LOS A A B	Stage 2	754	-	-	-	-	-	
HCM Control Delay, s 12.2 0.6 0 HCM LOS B Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1200 - 522 HCM Lane V/C Ratio 0.018 - 0.04 HCM Control Delay (s) 8.1 0 12.2 HCM Lane LOS A A B								
HCM Control Delay, s 12.2 0.6 0 HCM LOS B Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1200 - 522 HCM Lane V/C Ratio 0.018 - 0.04 HCM Control Delay (s) 8.1 0 12.2 HCM Lane LOS A A B	Approach	EB		NB		SB		
HCM LOS	HCM Control Delay, s	12.2						
Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1200 - 522 HCM Lane V/C Ratio 0.018 - 0.04 HCM Control Delay (s) 8.1 0 12.2 HCM Lane LOS A A B	HCM LOS							
Capacity (veh/h) 1200 - 522								
Capacity (veh/h) 1200 - 522	Minor Lane/Major Mvn	nt	NBL	NBT	EBLn1	SBT	SBR	
HCM Lane V/C Ratio 0.018 - 0.04 HCM Control Delay (s) 8.1 0 12.2 HCM Lane LOS A A B	Charles and the Control of the Contr			E-100-100-100		Tarak Salah Sa		
HCM Control Delay (s) 8.1 0 12.2 HCM Lane LOS A A B				-		-		
HCM Lane LOS A A B				AND WATER STREET				
	HCM Lane LOS		Delice and the same of the sam	NO DE CASO DE				
10111 00ti 70til Q(1011) U. - U.	HCM 95th %tile Q(veh)	0.1		0.1	_	_	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			43			લ	7	ሻ	7.	
Traffic Volume (vph)	5	1	6	67	1	17	1	231	61	16	302	6
Future Volume (vph)	5	1	6	67	1	17	1	231	61	16	302	6
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		0	0		160	175		0
Storage Lanes	0		0	0		0	0		1	1		0
Taper Length (ft)	25		_	25			25		•	25		· ·
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1100	0.927	1.00	1,00	0.974	1.00	1.00	1.00	0.850	1.00	0.997	1.00
FIt Protected		0.981			0.962				0.000	0.950	0.001	
Satd. Flow (prot)	0	1694	0	0	1745	0	0	1863	1583	1770	1857	0
FIt Permitted		0.879			0.763			0.999	1000	0.360	1007	
Satd. Flow (perm)	0	1518	0	0	1384	0	0	1861	1583	671	1857	0
Right Turn on Red		1010	Yes		1004	Yes		1001	Yes	071	1007	Yes
Satd. Flow (RTOR)		7	100		15	100			66		4	100
Link Speed (mph)		20			20			35	00		35	
Link Distance (ft)		555			558			246			389	
Travel Time (s)		18.9			19.0			4.8			7.6	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	5	1	7	73	1	18	1	251	66	17	328	7
Shared Lane Traffic (%)	· ·		•	10	1	10	1	201	- 00	11	520	
Lane Group Flow (vph)	0	13	0	0	92	0	0	252	66	17	335	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0	i ugiit	Lore	0	rugin	Loit	12	ragin	LOIL	12	ragin
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane					10			10			10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1100	9	15	1.00	9	15	1.00	9	15	1.00	9
Number of Detectors	1	2	•	1	2	•	1	2	1	1	2	J
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100	20	20	100	
Trailing Detector (ft)	0	0		0	0		0	0	0	0	0	
Detector 1 Position(ft)	0	0		0	0		0	0	0	0	0	
Detector 1 Size(ft)	20	6		20	6		20	6	20	20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	Cl+Ex		CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	
Detector 1 Channel							J	0. <u></u>	O. EX	OI EX	OI - EX	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 2 Position(ft)		94		0.0	94		0.0	94	0.0	0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		- n			J. LA			OI. EX			OI. LX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		4		. 51111	4		1 31111	2	1 01111	1 01111	12	
Permitted Phases	4	4		4	4		2	2	2	12	12	

	۶	-	*	•	-	*	1	†	1	1	↓	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Detector Phase	4	4		4	4		2	2	2	12	12	
Switch Phase												
Minimum Initial (s)	7.0	7.0		7.0	7.0		15.0	15.0	15.0			
Minimum Split (s)	11.0	11.0		11.0	11.0		19.0	19.0	19.0			
Total Split (s)	17.0	17.0		17.0	17.0		41.0	41.0	41.0			
Total Split (%)	24.3%	24.3%		24.3%	24.3%		58.6%	58.6%	58.6%			
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0	3.0			
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0	1.0			
Lost Time Adjust (s)		0.0			0.0			0.0	0.0			
Total Lost Time (s)		4.0			4.0			4.0	4.0			ushin day
Lead/Lag							Lag	Lag	Lag			
Lead-Lag Optimize?				10-41M = 100 = 100 A 100 A		HALVA JONATE ET ELECTRONICO	•	J	J			PECS, SERVER C
Recall Mode	None	None		None	None		Min	Min	Min			
Act Effct Green (s)		8.5	400, PRILIP 25 PT & NUSCAS		8.5			16.6	16.6	30.8	30.8	
Actuated g/C Ratio		0.22			0.22			0.42	0.42	0.79	0.79	
v/c Ratio	ALBOYS - ENGINEERS	0.04			0.30			0.32	0.09	0.03	0.23	
Control Delay		12.2			16.4			11.1	3.8	3.4	3.4	
Queue Delay	ATTENDED TO STATE OF THE STATE	0.0			0.0			0.0	0.0	0.0	0.0	
Total Delay		12.2			16.4			11.1	3.8	3.4	3.4	
LOS		В			В			В	А	А	А	A-MARKET
Approach Delay		12.2			16.4			9.6			3.4	
Approach LOS	ANNUAL BUILDING	В			В			А			А	
Queue Length 50th (ft)		1			16			44	0	1	25	
Queue Length 95th (ft)		12	east considerable and the		51			96	18	6	62	
Internal Link Dist (ft)		475			478			166			309	
Turn Bay Length (ft)			VALUE 2-17 (2 17 18 18 18 18 18 18 18 18 18 18 18 18 18						160	175		
Base Capacity (vph)		537			495			1649	1410	667	1847	
Starvation Cap Reductn		0		***************	0			0	0	0	0	SERVICE SERVICE
Spillback Cap Reductn		0			0			0	0	0	0	
Storage Cap Reductn		0			0		10 m.Sect of History Company	0	0	0	0	
Reduced v/c Ratio		0.02			0.19			0.15	0.05	0.03	0.18	
Intersection Summary												
	ther											
Cycle Length: 70				NEW COLUMN STATE OF STREET								
Actuated Cycle Length: 39.1												
Natural Cycle: 40										Control Control		
Control Type: Semi Act-Uncoc	ord											
Maximum v/c Ratio: 0.32												
Intersection Signal Delay: 7.6				li	ntersection	LOS: A						
Intersection Capacity Utilizatio	n 44.6%			10	CU Level	of Service	Α					
Analysis Period (min) 15												
Splits and Phases: 9: Shipp	an & Ha	rboursite/(Cummina	S								
↓ Ø1 ↓			- 319	-					1	4		
12s 41s	J.							Calabrana	- W	7		

Exhibit 12
Traffic Operations Analyses
Combined (build) Peak Hour Traffic Volumes
Stamford, Connecticut

Intersection						
Int Delay, s/veh	0.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y	LDI	NDL	4	3D1	אמט
Traffic Vol, veh/h	17	10	10	269	333	23
Future Vol, veh/h	17	10	10	269	333	23
	0	0	0		NAME AND ADDRESS OF THE OWNER, WHEN PERSON OF THE OWNER, WHEN PERSON OF THE OWNER, WHEN PERSON OF THE OWNER,	
Conflicting Peds, #/hr				0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		,-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	Composition and the second	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	18	11	11	292	362	25
Major/Minor	Minor2	ľ	Major1	N	/lajor2	
Conflicting Flow All	689	375	387	0	-	0
Stage 1	375	-	301	-		-
Stage 2	314				-	
Manager and the second		- 0.00	4.40	-	-	-
Critical Hdwy	6.42	6.22	4.12	Ī		-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318		_	-	-
Pot Cap-1 Maneuver	412	671	1171	-	-	-
Stage 1	695	-	-	-	-	-
Stage 2	741	<u>-</u>	-	-	•	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	407	671	1171	-		_
Mov Cap-2 Maneuver	407	-	_	_	_	-
Stage 1	687	_			_	
Stage 2	741	-	- -	- -	<u>-</u>	
Glaye 2	741				-	-
Was to the second secon						
Approach	EB		NB		SB	
HCM Control Delay, s	13.1		0.3		0	
HCM LOS	В					
Minor Lane/Major Mvm	nt	NBL	MRT	EBLn1	SBT	SBR
Capacity (veh/h)	n	1171				
			-		-	-
HCM Cantal Data (1)		0.009	CONTRACTOR AND ADDRESS OF THE PARTY.	0.062	-	_
HCM Control Delay (s))	8.1	0	13.1	-	-
HCM Lane LOS HCM 95th %tile Q(veh		Α	А	В	-	_
		0		0.2		-

Intersection							
Int Delay, s/veh	1.2						
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	W			स	7.	***************************************	
Traffic Vol, veh/h	47	9	1	233	313	30	
Future Vol, veh/h	47	9	1	233	313	30	
Conflicting Peds, #/hr		0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	<u> </u>		-	NACON PROPERTY.	-	CONCRETE DESCRIPTION	
Storage Length	0	-	-	-	-	-	
Veh in Median Storage	e,# 0	-	÷	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	51	10	1	253	340	33	
Major/Minor	Minor2		Major1	N	Anier?		
			Major1		Major2	0	
Conflicting Flow All	612	357	373	0	-	0	
Stage 1 Stage 2	357 255	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	-	- -		
Critical Hdwy Stg 1	5.42	0.22	4.12		-	-	
Critical Hdwy Stg 2	5.42	-			- 	- MONTON	
Follow-up Hdwy		3.318	2 210	-	-	-	
Pot Cap-1 Maneuver	456	687	1185	-	_		
Stage 1	708	007	1100		_	-	
Stage 2	788	-	_		-	<u>-</u>	
Platoon blocked, %	100			_	_	i i i i i i i i i i i i i i i i i i i	
Mov Cap-1 Maneuver	456	687	1185	_		- -	
Mov Cap-1 Maneuver		- 001	1100	-	-	_	
Stage 1	707	-	-	- 1	_	_	
Stage 2	788		_		-	_	
Olaye Z	700	-	-	-	-	-	
Approach	EB		NB		SB		
HCM Control Delay, s			0		0		
HCM LOS	В	NATIONAL SERVICE AND ADDRESS OF THE PARTY OF	Name of the State	150 Person State (Sept. 1981)			
Minor Lane/Major Mvi	mt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)		1185		482	-	-	
HCM Lane V/C Ratio		0.001	-	0.126	-	-	
CONTRACTOR OF THE PROPERTY OF	2)	8	0	13.5	_	_	
HCM Control Delay (s	"	U	•	10.0			
HCM Control Delay (s HCM Lane LOS		A	A	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	-	-	

Intersection						
Int Delay, s/veh	0.6					
		EDD	NE	NE	05-	055
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M	NAME OF THE OWNER, OR WHEN	ut antique a motorphism	र्भ	Þ	Ordinalis Carpage ale
Traffic Vol, veh/h	5	9	22	229	300	23
Future Vol, veh/h	5	9	22	229	300	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None	-	None	-	None
Storage Length	0	-	-	-	-	_
Veh in Median Storage	e, # 0	-	-	0	0	_
Grade, %	0	-	-	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	10	24	249	326	25
	•			_10	020	20
0.000						Name of the Party
	Minor2		Major1		Major2	
Conflicting Flow All	636	339	351	0	-	0
Stage 1	339	-	-	-	-	-
Stage 2	297	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	_
Follow-up Hdwy		3.318	2.218	-	_	-
Pot Cap-1 Maneuver	442	703	1208	-	-	_
Stage 1	722	-	-	- -	-	-
Stage 2	754	_	_	_		_
Platoon blocked, %	, 0-1					
Mov Cap-1 Maneuver	432	703	1208	-	_	<u>-</u>
Mov Cap-1 Maneuver	432	103	1200	-	_	-
	705	-	-	-	-	-
Stage 1		-	-	-	-	-
Stage 2	754	-	-	- (30) (20) (20)	<u>-</u>	
Approach	EB		NB		SB	
HCM Control Delay, s	11.4		0.7		0	10015
HCM LOS	В					
Minor Lane/Major Mvr	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1208	-	574	-	-
HCM Lane V/C Ratio		0.02	-	0.027	-	-
HCM Control Delay (s)	8	0	11.4	-	-
HCM Lane LOS		Α	Α	В	-	-
HCM 95th %tile Q(veh	1)	0.1	-	0.1	-	-
The state of the s		and the second			WHITE SALES	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			ર્લ	71	75	1,	
Traffic Volume (vph)	3	1	1	72	1	43	1	205	130	60	238	10
Future Volume (vph)	3	1	1	72	1	43	1	205	130	60	238	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	,,,,,	0	0	1000	0	0	1000	160	175	1000	0
Storage Lanes	0		0	0		0	0		1	1		0
Taper Length (ft)	25		J	25		0	25			25		U
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.973	1.00	1.00	0.950	1.00	1.00	1.00	0.850	1.00	0.994	1.00
Flt Protected		0.971			0.970				0.000	0.950	0.004	
Satd. Flow (prot)	0	1760	0	0	1717	0	0	1863	1583	1770	1852	0
FIt Permitted	J	0.820			0.809		O O	0.999	1000	0.371	1002	U
Satd. Flow (perm)	0	1486	0	0	1432	0	0	1861	1583	691	1852	0
Right Turn on Red		1400	Yes		1402	Yes	U	1001	Yes	031	1002	Yes
Satd. Flow (RTOR)		1	100		38	103			141		8	163
Link Speed (mph)		20			20			35	171		35	
Link Distance (ft)		555			558			246			389	
Travel Time (s)		18.9			19.0			4.8			7.6	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	3	1	1	78	1	47	1	223	141	65	259	11
Shared Lane Traffic (%)	J		l .	10	1	71		220	141	00	200	1.1
Lane Group Flow (vph)	0	5	0	0	126	0	0	224	141	65	270	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)	Lon	0	ragin	LOIL	0	ragin	Loit	12	ragin	Leit	12	ragiit
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)	SATURATION AND AND	16			16			16			16	
Two way Left Turn Lane					10			10			10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	1100	9	15	1.00	9	15	1.00	9	1.00	1.00	9
Number of Detectors	1	2	U	10	2	J	1	2	1	1	2	9
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100	20	20	100	
Trailing Detector (ft)	0	0		0	0		0	0	0	0	0	
Detector 1 Position(ft)	0	0		0	0		0	0	0	0	0	
Detector 1 Size(ft)	20	6		20	6		20	6	20	20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	Cl+Ex	CI+Ex	CI+Ex	CI+Ex	
Detector 1 Channel	J/.	J. 27		OI - EX	OI LX		OITEX	OI. LX	OI. LX	OITEX	OITEX	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 2 Position(ft)		94			94		0.0	94	0.0	0.0	94	
Detector 2 Size(ft)		6			6			6			94	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		OITEA			OLLY			OITEX			CITEX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	1 01111	4		i Gilli	4		i Giiii	2	r cilii	Feilil	12	
Permitted Phases	4	4		4	4		2	2	2	12	12	
		,	10000		7		2	_	_	1 2	1 4	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector Phase	4	4		4	4		2	2	2	12	12	
Switch Phase												
Minimum Initial (s)	7.0	7.0		7.0	7.0		15.0	15.0	15.0			
Minimum Split (s)	11.0	11.0		11.0	11.0		19.0	19.0	19.0			
Total Split (s)	17.0	17.0		17.0	17.0		41.0	41.0	41.0			
Total Split (%)	24.3%	24.3%		24.3%	24.3%		58.6%	58.6%	58.6%			
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0	3.0			
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0	1.0			
Lost Time Adjust (s)		0.0			0.0			0.0	0.0			
Total Lost Time (s)		4.0			4.0			4.0	4.0			
Lead/Lag							Lag	Lag	Lag			
Lead-Lag Optimize?				Annual September 1999	(Anna and annual							
Recall Mode	None	None		None	None		Min	Min	Min			
Act Effct Green (s)		8.7			8.7			16.3	16.3	29.2	29.2	
Actuated g/C Ratio		0.21			0.21			0.40	0.40	0.71	0.71	
v/c Ratio		0.02			0.38			0.30	0.20	0.13	0.21	
Control Delay		13.8			15.4			11.9	3.5	4.4	3.9	
Queue Delay		0.0			0.0			0.0	0.0	0.0	0.0	
Total Delay		13.8			15.4			11.9	3.5	4.4	3.9	
LOS		В			В			В	A	Α	Α	
Approach Delay		13.8			15.4			8.7	, (4.0	
Approach LOS		В			В			A			A	
Queue Length 50th (ft)		1			18			38	0	5	19	
Queue Length 95th (ft)		7			58			89	27	19	53	
Internal Link Dist (ft)		475			478			166	۷1	10	309	
Turn Bay Length (ft)		470			710			100	160	175	000	
Base Capacity (vph)		490			497			1620	1396	675	1810	
Starvation Cap Reductn		0			0			0	0	0	0	
Spillback Cap Reductn		0			0			0	0	0	0	
Storage Cap Reductin		0			0			0	0	0	0	
Reduced v/c Ratio		0.01			0.25			0.14	0.10	0.10	0.15	
		0.01			0.20			0.14	0.10	0.10	0.15	
Intersection Summary Area Type: Of	ther											
Cycle Length: 70	ulGi											
Actuated Cycle Length: 41.1												
Natural Cycle: 40											Estate de la companya della companya della companya de la companya de la companya della companya	
Control Type: Semi Act-Uncoo	ord											
Maximum v/c Ratio: 0.38	Jiu											
					ntoreset's	2100.4						
Intersection Signal Delay: 7.8	n 40 70		San		ntersectio		_ ^			Tan Samuel		
Intersection Capacity Utilization Analysis Period (min) 15	on 43.7%	0		l	CU Level	ot Service	e A					
Splits and Phases: 9: Shipp	an & Ha	arboursite/	Cummino	gs								
↓ Ø1 ↓									\$ 2	04		

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			स	1>	ODIT
Traffic Vol, veh/h	17	7	9	270	335	26
Future Vol, veh/h	17	7	9	270	335	26
Conflicting Peds, #/hr	0	0	0	0	0	0
THE COURT OF THE PARTY OF THE P	Stop	Stop	Free	Free	Free	Free
RT Channelized	_	None		None	-	
Storage Length	0	_	-	-	-	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	18	8	10	293	364	28
Major/Minor M	linor2		Major1	٨	Major2	
Conflicting Flow All	691	378	392	0	- viajuiz	0
Stage 1	378	310	382	-		-
Stage 2	313		_	_	_	_
Critical Hdwy	6.42	6.22	4.12	<u>-</u>	_	_
Critical Hdwy Stg 1	5.42	0.22	7.12	-		::::::::::::::::::::::::::::::::::::::
Critical Hdwy Stg 2	5.42					
		3.318	2 218	-		- -
Pot Cap-1 Maneuver	410	669	1167	_	_	
Stage 1	693	-	- 101	-	-	_
Stage 2	741	_	_	_	_	_
Platoon blocked, %				_	-	_
Mov Cap-1 Maneuver	406	669	1167	_	_	_
Mov Cap-2 Maneuver	406	-	-	**************************************	_	-
Stage 1	686	_	_		-	_
Stage 2	741	-	-	-	-	-
Approach	ED		ND		CD	
Approach	EB		NB		SB	
HCM Control Delay, s HCM LOS	13.3		0.3		0	
HOW LOS	В					
Minor Lane/Major Mvmt		NBL	NBT	EBLn1	SBT	SBR
		1167	-	459	-	-
Capacity (veh/h)						
HCM Lane V/C Ratio		0.008	-	0.057	-	-
HCM Lane V/C Ratio HCM Control Delay (s)		0.008 8.1	0	AUGUSTA PROPERTY AND PARTY.	-	
HCM Lane V/C Ratio		THE RESERVE AND ADDRESS OF THE PARTY OF THE	SOCIAL PARTY AND PARTY OF	13.3		-

Intersection						
Int Delay, s/veh	1.3					
-		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W	SCHOOL SERVICE		र्स	7	
Traffic Vol, veh/h	44	16	6	236	314	28
Future Vol, veh/h	44	16	6	236	314	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	48	17	7	257	341	30
IVIVIIILTIOW	40	11	- 1	231	341	30
Major/Minor	Minor2		Wajor1	1	Major2	
Conflicting Flow All	627	356	371	0	-	0
Stage 1	356	-			-	_
Stage 2	271	-	_	-	_	
Critical Hdwy	6.42	6.22	4.12	_		_
Critical Hdwy Stg 1	5.42	0.22	7.12	_	-	-
	5.42					
Critical Hdwy Stg 2				-	-	-
Follow-up Hdwy		3.318	2.218	-	- 25000000	- (A. 1041-845) (A
Pot Cap-1 Maneuver	447	688	1188	-	-	-
Stage 1	709	_	_	-	-	_
Stage 2	775	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	444	688	1188	-	-	-
Mov Cap-2 Maneuver	444	-	-	-	-	-
Stage 1	704	-	-	_	-	-
Stage 2	775	-	-		-	_
Glago L						
Approach	EB		NB		SB	
HCM Control Delay, s	13.5		0.2		0	
HCM LOS	В					
1.6		NISI		EDI /		0==
Minor Lane/Major Mvn	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1188	-		-	-
HCM Lane V/C Ratio		0.005	-	0.133	-	-
HCM Control Delay (s)	8	0	13.5	-	-
HCM Lane LOS		Α	Α	В	-	-
HCM 95th %tile Q(veh	1)	0			-	-
HCM 95th %tile Q(ven	1)	0	-	0.5	-	-

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	**			4	1>	
Traffic Vol, veh/h	10	9	20	232	313	17
Future Vol, veh/h	10	9	20	232	313	17
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	A COLUMN A CONTRACTOR DE CONTR	-	-	0	0	-
Grade, %	0	_	-	0	0	
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	11	10	22	252	340	18
Major/Minor	Minor2	1	Major1	N	Major2	
Conflicting Flow All	645	349	358	0	-	0
Stage 1	349	-	-	-	-	-
Stage 2	296	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	437	694	1201	-	-	-
Stage 1	714	-	-	-	-	-
Stage 2	755	-	-	-	-	_
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	428	694	1201	-	-	-
Mov Cap-2 Maneuver	428	-	-	-	-	-
Stage 1	699	-	-	-	-	-
Stage 2	755	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	12.2		0.6	6.46.9	0	
HCM LOS	В		0.0		0	
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR
Capacity (veh/h)		1201	-	TO SECURE A SECURE A SECURE A SECURIO A SECURI	-	ODIN -
HCM Lane V/C Ratio		0.018		0.039	- -	_
HCM Control Delay (s))	8.1	0	12.2	-	
HCM Lane LOS		Α	A	12.2 B	- -	-
HCM 95th %tile Q(veh)	0.1	-		_	<u>.</u>
3 (101)	1	J.,		J. 1		

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		43			43			स्	7	ሻ	ĵ»	
Traffic Volume (vph)	5	1	6	67	1	17	1	230	61	16	301	6
Future Volume (vph)	5	1	6	67	1	17	1	230	61	16	301	6
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	0		0	0		160	175		0
Storage Lanes	0		0	0		0	0		1	1		0
Taper Length (ft)	25	redecial orange (11)		25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.927			0.974				0.850		0.997	.,00
Flt Protected		0.981			0.962					0.950		
Satd. Flow (prot)	0	1694	0	0	1745	0	0	1863	1583	1770	1857	0
Flt Permitted		0.879			0.763			0.999		0.360		J
Satd. Flow (perm)	0	1518	0	0	1384	0	0	1861	1583	671	1857	0
Right Turn on Red			Yes			Yes			Yes		1007	Yes
Satd. Flow (RTOR)		7			15				66		4	100
Link Speed (mph)		20			20			35	-		35	
Link Distance (ft)		555			558			246			389	KOMBINE
Travel Time (s)		18.9			19.0			4.8			7.6	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	5	1	7	73	1	18	1	250	66	17	327	7
Shared Lane Traffic (%)				, •	•		•	200	o o		UZI	OSTALE STORY
Lane Group Flow (vph)	0	13	0	0	92	0	0	251	66	17	334	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0	J		0			12			12	i ugiit
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane											10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15	1.00	9	15	1.00	9
Number of Detectors	1	2		1	2	•	1	2	1	1	2	V
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100	20	20	100	
Trailing Detector (ft)	0	0		0	0		0	0	0	0	0	
Detector 1 Position(ft)	0	0		0	0		0	0	0	0	0	
Detector 1 Size(ft)	20	6		20	6		20	6	20	20	6	
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	
Detector 1 Channel					0, <u>-</u> x		O, Ex	OI - EX	OI - EX	OI LX	OITEX	
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 2 Position(ft)	0.0	94		0.0	94		0.0	94	0.0	0.0	94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		OI - LX			OI / LX			OITEX			OFFEX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	7 01111	4		i Gilli	4		i Cilli	2	L. CIIII	Feilli	1 2	
Permitted Phases	4	4		4	4		2	2	2	12	12	
1 Offittod Fittagos	-	4		4	4		_	2	2	1 2	12	

	۶	-	*	1	-	*	4	†	1	1	1	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Detector Phase	4	4		4	4		2	2	2	12	12	
Switch Phase												
Minimum Initial (s)	7.0	7.0		7.0	7.0		15.0	15.0	15.0			
Minimum Split (s)	11.0	11.0		11.0	11.0		19.0	19.0	19.0			
Total Split (s)	17.0	17.0		17.0	17.0		41.0	41.0	41.0			
Total Split (%)	24.3%	24.3%		24.3%	24.3%		58.6%	58.6%	58.6%			
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0	3.0			
All-Red Time (s)	1.0	1.0	**************************************	1.0	1.0		1.0	1.0	1.0			ERSTANCES PROJECT
Lost Time Adjust (s)		0.0			0.0			0.0	0.0			
Total Lost Time (s)		4.0			4.0	entropy (Kortis Sisteria)		4.0	4.0		an an Maria de Walanda de Andrea	Race to the second second
Lead/Lag							Lag	Lag	Lag			
Lead-Lag Optimize?	70.00 H H H D T L D T D D D D D D D D D D D D D D D	AN SWEETING SERVICE AND	HOLIAN CONTAINS MEDICARE				9	•	J			
Recall Mode	None	None		None	None		Min	Min	Min			
Act Effct Green (s)		8.5			8.5			16.6	16.6	30.8	30.8	
Actuated g/C Ratio		0.22			0.22			0.42	0.42	0.79	0.79	
v/c Ratio		0.04			0.30			0.32	0.09	0.03	0.23	
Control Delay		12.2			16.4			11.1	3.8	3.4	3.4	
Queue Delay	KONDAN DER SKALLBURGE	0.0			0.0			0.0	0.0	0.0	0.0	
Total Delay		12.2			16.4			11.1	3.8	3.4	3.4	
LOS		В			В			В	А	Α	Α	
Approach Delay		12.2			16.4			9.6			3.4	
Approach LOS		В		Web CATHORN CONTROL	В			Α			Α	
Queue Length 50th (ft)		1			16			44	0	1	25	
Queue Length 95th (ft)		12			51			96	18	6	62	
Internal Link Dist (ft)		475			478			166			309	
Turn Bay Length (ft)									160	175		
Base Capacity (vph)		537			495			1649	1410	667	1847	
Starvation Cap Reductn		0			0		all application of the state of	0	0	0	0	parameter agency
Spillback Cap Reductn		0			0			0	0	0	0	
Storage Cap Reductn		0			0			0	0	0	0	Book Asker (1972)
Reduced v/c Ratio		0.02			0.19			0.15	0.05	0.03	0.18	
Intersection Summary												
The second secon	ther											
Cycle Length: 70												
Actuated Cycle Length: 39.1												
Natural Cycle: 40												
Control Type: Semi Act-Uncoo	ord											
Maximum v/c Ratio: 0.32												
Intersection Signal Delay: 7.6					ntersection							
Intersection Capacity Utilization	on 44.5%				CU Level	of Service	eΑ					
Analysis Period (min) 15												
Splits and Phases: 9: Shipp	an & Ha	rboursite/	Cumming	gs								
↓ *ø1 ↓	(N.)								***************************************	4		

Exhibit 13
Parking Assessment
417 Shippan Avenue
Stamford, Connecticut



50 ft Imagery @2024 Airbus, CNES / Airbus, Maxar Technologies, New York GIS, Map data @2024 Google

Available Parking Area