Interchange Development LLC

152 Morrill Road Canterbury, NH 03224 (603) 783-0400

September 15, 2021

Beth Fenstermacher, PLA, LEED AP Assistant City Planner, City of Concord Planning & Community Development Dept. 41 Green St, 3rd Floor Concord NH 03301

Re: Interchange Development, Major Site Plan #2020-40

1 Whitney Rd

Dear Ms. Fenstermacher:

On December 18, 2020, the Concord Planning Board gave conditional Major Site Plan approval for a multi-phased development including a Market Basket supermarket with attached retail and a 13,387 square foot NH Liquor & Wine Outlet currently under construction at 11 Merchants Way.

As part of that approval, Subsequent Conditions #4 and #5 required that all off-site improvements to be completed before the issuance of the first Certificate of Occupancy. At the time, it was anticipated that the City's vehicular and pedestrian improvements to Hoit and Whitney Roads would be substantially completed in December 2021. Due to state permitting issues, the Hoit/Whitney Road roundabout will not be complete until sometime in early summer of 2022.

The NH Liquor & Wine Outlet is under construction and expected to be completed in November 2021. We are requesting relief from Subsequent Conditions #4 and #5 such that a CO may be issued for the NH Liquor & Wine Outlet prior to the completion of City improvements. In support of this request, TF Moran prepared a memorandum dated August 17, 2021 analyzing the traffic operations of the Hoit/Whitney Road intersection under temporary conditions with the NH Liquor & Wine Outlet open prior to the completion of the Hoit/Whitney Road roundabout (see attached). The TF Moran memo was reviewed by City staff and forwarded to NHDOT for their review and concurrence. On September 8, 2021, NHDOT issued an amended driveway permit to the City allowing for the opening of the NH Liquor & Wine Outlet under the existing conditions without the roundabout (see attached).

We appreciate your consideration of this request.

Sincerely,

David S. Rauseo

Laurie M. Rauseo

D. R. Jaurie M. Rauseo



October 12, 2021

Beth Fenstermacher Planning Department 41 Green Street, 3rd floor Concord, NH 03301

Re: Interchange Development LLC

Commercial Development

1 Whitney Road

Concord, New Hampshire

Dear Beth,

On behalf of our client, Interchange Development LLC, TFMoran is submitting this waiver request in connection with the proposed NH Liquor & Wine Outlet store within its commercial development "Concord Crossing" located at 1 Whitney Road.

<u>City of Concord, NH Site Plan Regulations, Section 7.08(7)</u> to allow for the issuance of the CO prior to all public and private improvements being completed.

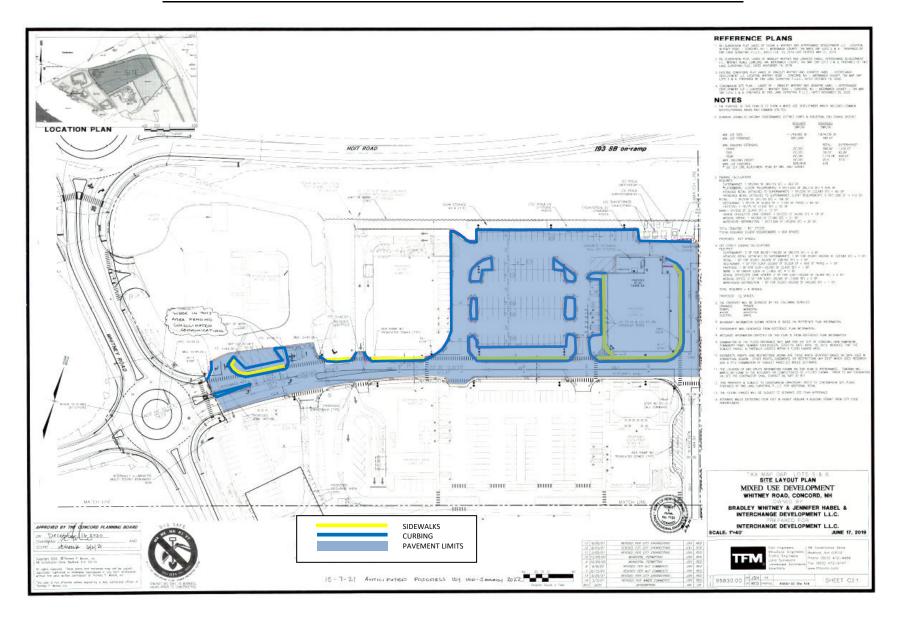
The NH Liquor & Wine Outlet (NHLWO) anticipates opening in late 2021. As such, the proposed Roundabouts at Whitney Road and Hoyt Road will not be completed by this date. Additionally, other onsite private improvements Concord Crossing will not be completed. However, all proposed infrastructure serving the NHLWO facility will be competed including necessary access and egress. For these reasons, the granting of the waiver will be consistent with the spirit of the ordinance. Denial of the waiver would result in an unnecessary hardship to the NHLWO because it would preclude them from opening for business whereas its requisite site improvements have been completed.

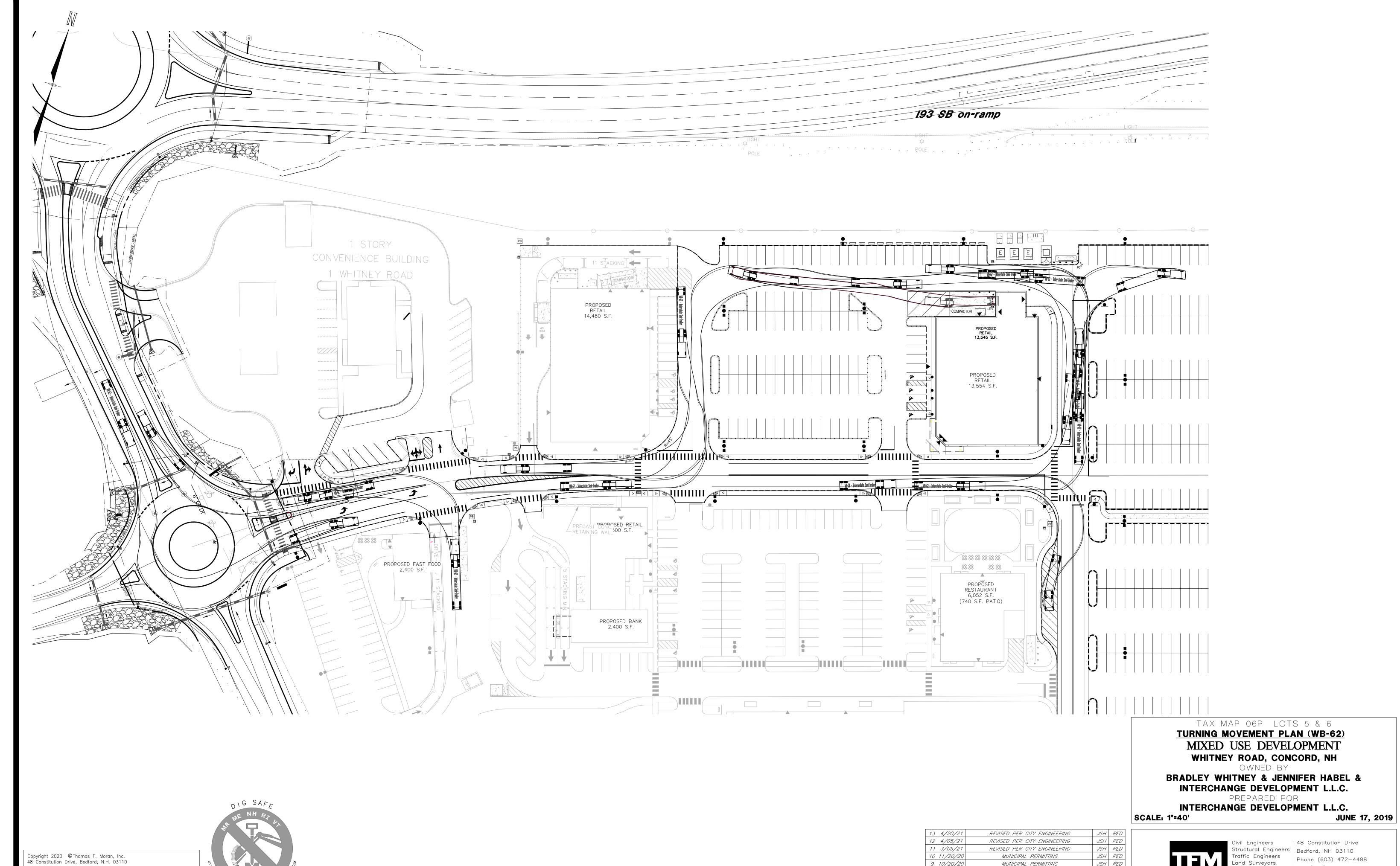
Sincerely, TFMORAN INC.

Jason S. Hill, P.E. Project Manager

48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com

EXPECTED SITE IMPROVEMENTS TO BE COMPLETED BY MID JANUARY 2022





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CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION



12	4/05/21	REVISED PER CITY ENGINEERING	JSH	RED
11	3/05/21	REVISED PER CITY ENGINEERING	JSH	RED
10	11/20/20	MUNICIPAL PERMITTING	JSH	RED
9	10/20/20	MUNICIPAL PERMITTING	JSH	RED
8	6/8/20	REVISED PER AOT COMMENTS	JSH	RED
7	6/15/20	REVISED PER AOT COMMENTS	JSH	RED
15	5/20/21	REVISED PER CITY ENGINEERING	JSH	RED
14	5/3/21	REVISED PER WWEB COMMENTS	JSH	RED
REV.	DATE	DESCRIPTION	DR	CK

Land Surveyors

Landscape Architects Fax (603) 472-9747 www.tfmoran.com

SHEET T2.1 CK RED CADFILE 95830-00 Site R18



MEMORANDUM

Date: August 17, 2021

To: Karen Hill, City of Concord Transportation Engineer

From: Bob Duval, PE

Jen Porter, PE

Project: Interchange Development,

Whitney Road, Concord, NH

Subject: Temporary Traffic Condition – Liquor Store Only on Merchants Way

Introduction:

The proposed Phase 1 Interchange Development included a 79,895 sf Supermarket and 48,902 sf of retail/shopping center space. Current construction schedules show that the 13,554 sf Liquor Store portion of the shopping center will be ready for occupancy in November 2021, before the roundabout at US4/Whitney Road is completed. The offsite improvements are expected to be constructed between April and July of 2022.

This memo analyzes how the existing unsignalized intersection at US4/Whitney Road will operate if the liquor store opens prior to completion of the roundabout improvements. Since the liquor store does not open until 10am, and Saturday volumes on US4 are substantially (25%) lower, only the weekday PM condition was evaluated. Trip generation and distribution and resulting operational metrics for these temporary conditions are described below:

Trip Generation:

Trip generation calculations for the liquor store are based on LUC 820 rates (rather than equations due to small size) as most representative for a stand-alone store. Since only Merchants Way will be open, trip distribution has been revised to show 100% of trips entering and exiting Merchants Way. An internal capture deduction of 12% is included to represent interaction between the liquor store and the existing gas/convenience/coffee shop.

The liquor store is scheduled to be ready for occupancy by November of 2021 and the offsite improvements are slated to be completed by June/July of 2022. The original TIAS volumes are based on counts done in June and August of 2019, the peak months based on 2018 Group 4 data. For the months of November – April, when the liquor store will be open, actual volumes will be significantly less, with seasonal adjustment factors ranging from 12% to 24% less than peak month volumes. We therefore adjusted background volumes downward by 12% to conservatively represent the actual traffic conditions during the November to April period when the store will be open.

Traffic Operations:

The table below shows the temporary operating conditions of the existing unsignalized intersection of US4/Whitney Road with the liquor store open during the 6-month period from November 2021 to April 2022.

US4/Whitney Existing Intersection Operations 2021 PM Peak Hour

				<u> </u>	cak Hour								
	Liquor	Build Store on - Apr 20			Build (Liquor Store only) Nov 2021 - Apr 2022								
	v/c	Delay	LOS	Queue		v/c	Delay	LOS	Queue				
PM OVERALL	-	5.9	Α		PM OVERALL	-	8.2	Α	-				
EB L	0.01	9.9	Α	0	EB L	0.01	9.9	Α	0				
WB L	0.09	9.4	Α	8	WB L	0.11	9.5	Α	10				
NB LT	0.62	135.5	F	63	NB LT	0.81	184.1	F	88				
NB R	0.26	15.0	С	25	NB R	0.29	15.4	С	30				
SB L	0.53	119.3	F	53	SB L	0.59	141.6	F	58				
				•	•	*(Queues e	xpresse	ed in feet				

While there are expected modest increases in delay and queues for the Whitney and Old Boyce approaches, the EB and WB approaches are essentially unaffected, all movements remain well under capacity, and the overall intersection functions at a favorable level of service.

During the months of April – July of 2022, the roundabout will be under construction, and therefore the traffic conditions at the intersection will be dictated by the roundabout traffic control plan. Although the summer months are typically the peak month for US4, the additional 39 trips in the PM peak hour would not be expected to make any measurable difference in overall operations of the Traffic Control Plan at this intersection.

We therefore find that the intersection will function without significant degradation in operating conditions until the roundabout can be completed in April 2022.

Respectfully submitted, **TFMoran, Inc.**

Robert Duval, PE Jen Porter, PE



ATTACHMENTS

- Trip Generation Liquor Store Only
- PM Site Trip Distribution
- PM Site Trip Distribution Diagrams
- 2018 Peak Month NHDOT Group 4
- PM Volume Calculations: non-peak month
- PM Volume Diagrams: non-peak month
- PM Synchro
 - o 2021 No-Build Temp
 - o 20221 Build Liquor Only Temp

ITE Trip Generation Manual, 10th Edition Setting/Location: General Urban/Suburban

Proposed Trip Generation - Interchange Development: Liquor Store Only

Land Use - Liquor Store

ITE LUC 820 - Shopping Center: 13,554 sf

Time Period	Rate/Equn		Rate/	Trip Ends		tional olit	Direc Distril	tional oution	12% In Capt	ternal ture*	Site after c	Trips apture
	Х	Rate	Used		In	Out	In	Out	In	Out	In	Out
Weekday AM Peak Hour Adjacent Street	13.6	+see below		0	62%	38%	0	0	0	0	0	0
Weekday PM Peak Hour Adjacent Street	13.6	3.81	Rate	52	48%	52%	25	27	-3	-3	22	24
Weekend SAT Peak Hour of the Generator	13.6	4.5	Rate	61	52%	48%	32	29	-4	-3	28	26

AM:

- + Liquor Store opens at 10a, no AM trips
- * 12% Internal Capture (Per TIAS) expected between Liquor Store and Existing Gas

Proposed Total	Site Trip Generation - Intercha	nge Development Liqu	or Store	Only	
					Total Site
	Trip Ends	in	Out		Trips after capture
	Ends		Out		
Weekday AM Peak Hour Adjacent Street	0	0	0		0
Weekday PM Peak Hour Adjacent Street	52	25	27		46
Weekend SAT Peak Hour of the Generator	61	32	29		54

ITE Trip Generation Handbook, 3rd Edition

Proposed Trip Generation - Interchange Development: Liquor Store Only

ITE LUC 820 - Shopping Center: 13,554 sf

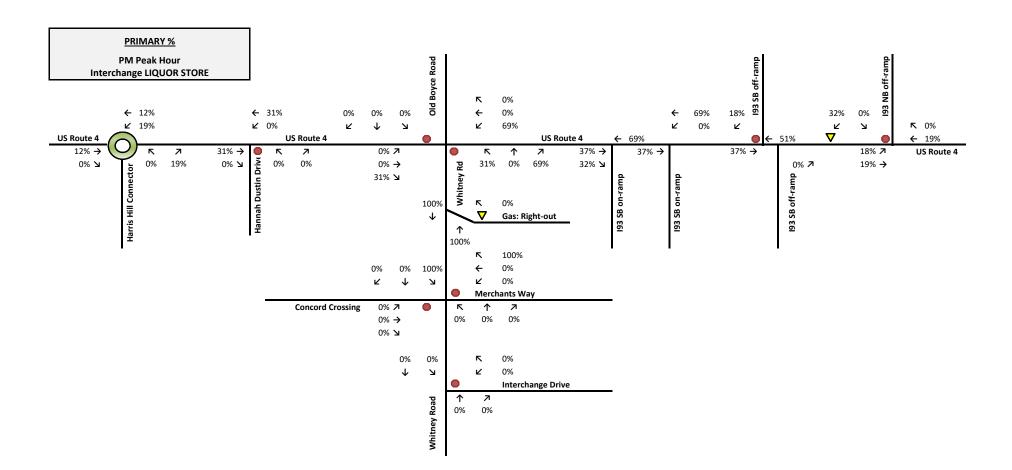
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	% In	# In	% Out	# Out	% In	# In	% Out	# Out	% In	# In	% Out	# Out
AM	40%	0	40%	0	34%	0	34%	0	26%	0	26%	0
РМ	40%	9	40%	10	34%	7	34%	8	26%	6	26%	6
SAT	39%	11	39%	10	26%	7	26%	7	35%	10	35%	9

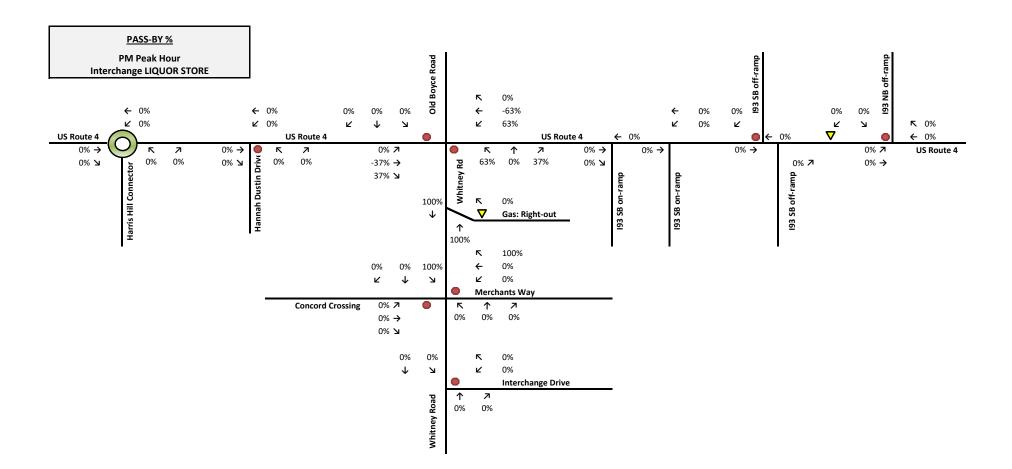
**LUC 820 Shopping Center: Table E.9 (PM)
**LUC 820 Shopping Center: Table E.10 (SAT)

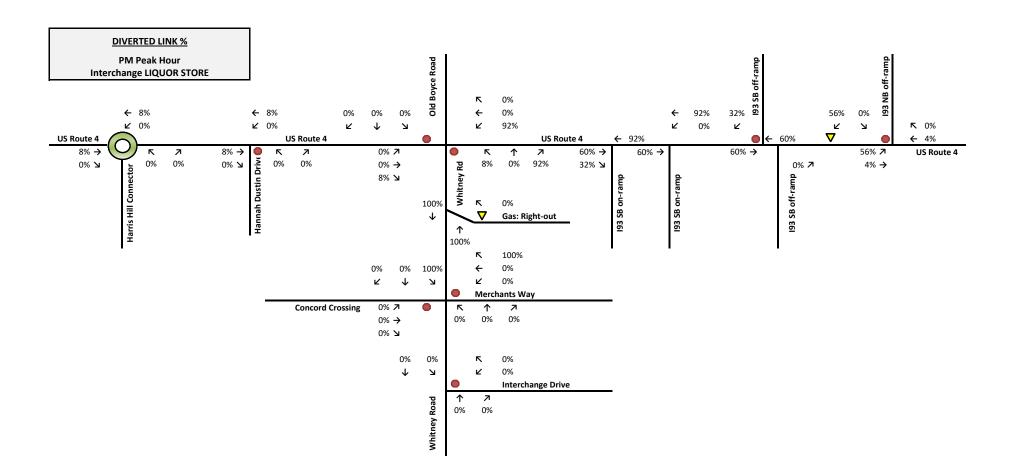
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SAT	34%	11	10	23%	7	7	31%	10	9

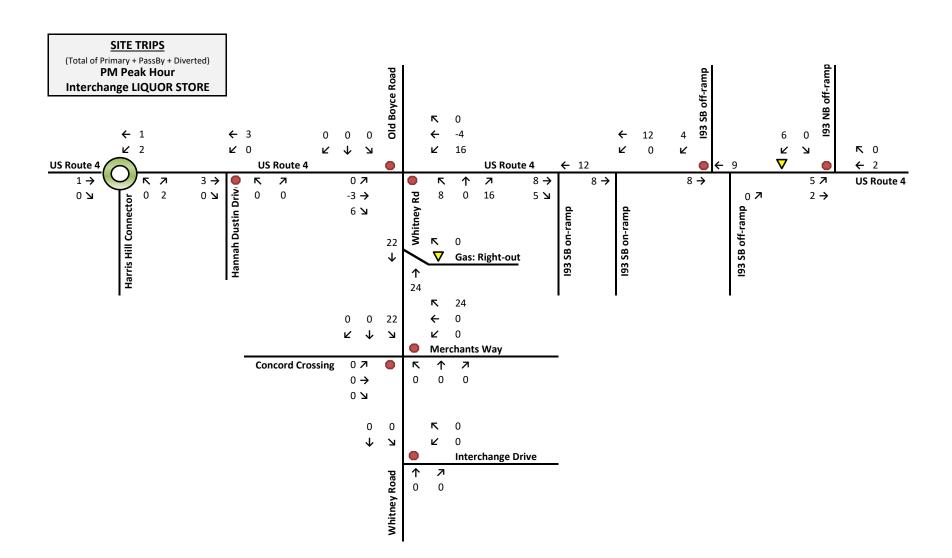
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29 US Route 4 at 193 NB on/off-ramp			,,	, ,					,,						al per Pro-Rat	a of 193 minu	s Exit 17		
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WBR		19%												4%					
SBL																			
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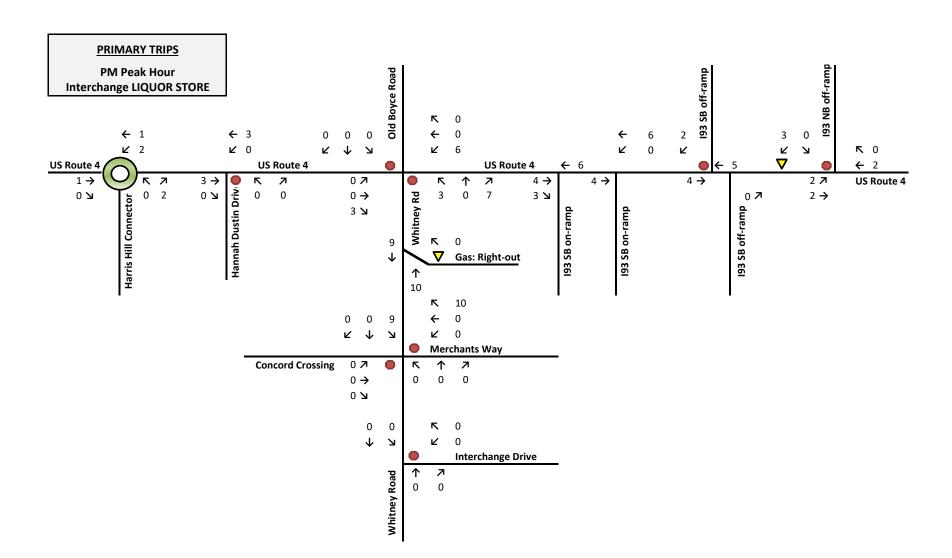
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EBF			3	0		EBR	37%		3	0	EBR	8%		0	0	EBR	6
WBL			6	0		WBL	63%		4	0	WBL	92%		6	0	WBL	16
WBT			0	0		WBT	-63%		-4	0	WBT			0	0	WBT	-4
WBR		31%	0	0		WBR NBL		63%	0	0	WBR NBI		8%	0	0	WBR NBI	8
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7) White Movemen WBL WBF NBT NBF	PERCEILI IN	NTAGES	0 ge Drive TR In 0 0 0 0 0	0 IPS Out 0 0 0 0 0 0		(7) Whitne Movement WBL WBR NBT NBR SBL		NTAGES	ge Drive TF In 0 0 0 0 0	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitn- Movement WBL WBR NBT NBR SBL		NTAGES	ge Drive TR In 0 0 0 0 0	IPS Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL	TRIPS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7) White Wovemen WBL WBR NBT	PERCEILI IN	NTAGES	0 ge Drive TR In 0 0 0 0	0 IPS Out 0 0 0 0		(7) Whitne Movement WBL WBR NBT NBR		NTAGES	ge Drive TF In 0 0 0 0	Out 0 0 0 0	(7) Whitney Movement WBL WBR NBT		NTAGES	ge Drive TR In 0 0 0	IPS Out 0 0 0 0 0	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBT	TRIPS 0 0 0 0 0 0
(7) Whitr Movemen WBL WBF NBT NBF	PERCEILI IN	NTAGES	0 ge Drive TR In 0 0 0 0 0	0 IPS Out 0 0 0 0 0 0		(7) Whitne Movement WBL WBR NBT NBR SBL		NTAGES	ge Drive TF In 0 0 0 0 0	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitn- Movement WBL WBR NBT NBR SBL		NTAGES	ge Drive TR In 0 0 0 0 0	IPS Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL	TRIPS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(7) Whitr Movemen WBL WBR NBT NBR SBL SB1	ney Road at PERCEI II R R T	NTAGES Out	0	0 IPS Out 0 0 0 0 0 0		(7) Whitno	PERCEI In	NTAGES Out	ge Drive TR In 0 0 0 0 0 0	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitn Movement WBL WBR NBT NBR SBL SBT	PERCE In	NTAGES Out	ge Drive TR In 0 0 0 0 0 0	IPS Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBL	TRIPS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(7) Whitr Movemen WBL WBR NBT NBR SBL SB1	ney Road at PERCEI In R R R R R R R R R R R R R R R R R R	NTAGES Out	0	0 IPS Out 0 0 0 0 0 0 0 0 0		(7) Whitno	PERCEI In	Out Out Out	ge Drive TR In 0 0 0 0 0 in Drive	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitn Movement WBL WBR NBT NBR SBL SBT	PERCE In	NTAGES Out	ge Drive	IPS Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL	TRIPS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SBF (7) Whitr Movemen WBL WBF NBT NBF SBL SBT	ney Road at PERCEI II R R R R R PERCEI Oute 4 at Ha	NTAGES Out annah Dust	0	0 IPS Out 0 0 0 0 0 0 0 IPS IP		(7) Whitnow Movement WBL WBR NBT NBR SBL SBT	PERCEI In	Out annah Dust	ge Drive TR In 0 0 0 0 0 in Drive	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitn- (7) Whitn- Movement WBL WBR NBT NBR SBL SBT	PERCE In	Out Out Dut Dut Dut Dut Dut Dut	ge Drive TR In 0 0 0 0 0 TR TR TR TR TR TR	IPS	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBL SBT	TRIPS
7) Whitr Wovemen WBL WBR NBI NBF SBL	PERCEI	NTAGES Out	0	0 IPS Out 0 0 0 0 0 0 0 0 0		(7) Whitno	PERCEI	Out Out Out	ge Drive TR In 0 0 0 0 0 0 in Drive	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitn Movement WBL WBR NBT NBR SBL SBT	PERCE In	NTAGES Out	ge Drive	IPS Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBL	TRIPS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SBF 7) Whitr Movemen WBL WBR NBT NBF SBL SBT 9) US R	PERCEI T Oute 4 at Ha PERCEI T Oute 5 at Ha PERCEI T J J J J J J J J J J J J	NTAGES Out annah Dust	0 Ge Drive TR Ge Ge Ge Ge Ge Ge Ge G	PS		(7) Whitn Movement WBL WBR NBT NBR SBL SBT (9) US Ro	PERCEI	Out annah Dust	ge Drive TR In 0 0 0 0 0 in Drive	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitm Movement WBL WBR NBT NBR SBL SBI (9) US Ro	PERCE In PERCE In PERCE In	Out Out Dut Dut Dut Dut Dut Dut	ge Drive TR In 0 0 0 0 0 0 0 0 0	IPS	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBT (9) US Route 4 at Hannah Dustin I	TRIPS
SBF 7) Whitr Movemen WBL WBF NBF NBF SBL SBT 9) US Re Movemen EBT	R PERCEI In PERCEI II R PERCEI II I	NTAGES Out annah Dust NTAGES Out	0	PS		(7) Whitned Movement WBL WBR NBT NBT SBL SBT (9) US Ro Movement EBT	PERCEI	Out annah Dust	ge Drive TR In 0 0 0 0 0 in Drive	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitn Movement WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT	PERCE In PERCE In PERCE In	Out Out Dut Dut Dut Dut Dut Dut	ge Drive TR In 0 0 0 0 0 TR TR TR TR TR TR	IPS	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBL SBT (9) US Route 4 at Hannah Dustin I	TRIPS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SBF 7) Whitr Movemen WBL WBF SBI SBI 9) US Re Movemen EBI EBI WBL WBI	PERCEI Oute 4 at Ha PERCEI T T T T T T T T T T T T T	NTAGES Out annah Dust	0 0 1 1 1 1 1 1 1	PS		(7) Whitned WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL	PERCEI	Out annah Dust	ge Drive TR In 0 0 0 0 0 in Drive	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitn- (7) Whitn- WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL	PERCE In PERCE In PERCE In	Out Out Dut Dut Dut Dut Dut Dut	ge Drive TR In 0 0 0 0 0 TR TR TR TR TR TR	IPS	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBT (9) US Route 4 at Hannah Dustin I Movement EBT EBR WBL WBL	TRIPS 0 0 0 0 0 0 0 0 TRIPS 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SBF 7) Whitr WBL WBF NBF SBL SBT 9) US Re EBT EBF WBL WBL WBL	PERCEI PERCEI	NTAGES Out annah Dust NTAGES Out	0	PS		(7) Whitnot Wovement WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL WBT NBL	PERCEI	Out annah Dust	ge Drive TR In 0 0 0 0 0 in Drive	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitm Movement WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL WBL WBT	PERCE In PERCE In PERCE In	Out annah Dusi NTAGES Out	ge Drive TR In 0 0 0 0 0 TR In 0 0 0 0 0 0 0 0 0 0 0 0 0	IPS	(7) Whitney Road at Interchange I Movement	TRIPS 0 0 0 0 0 0 0 TRIPS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SBF 7) Whitr Movemen WBL WBF SBI SBI 9) US Re Movemen EBI EBF WBL WBI	PERCEI PERCEI	NTAGES Out annah Dust NTAGES Out	0 0 1 1 1 1 1 1 1	PS		(7) Whitned WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL	PERCEI	Out annah Dust	ge Drive TR In 0 0 0 0 0 in Drive	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitn- (7) Whitn- WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL	PERCE In PERCE In PERCE In	Out annah Dusi NTAGES Out	ge Drive TR In 0 0 0 0 0 TR TR TR TR TR TR	IPS	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBT (9) US Route 4 at Hannah Dustin I Movement EBT EBR WBL WBL	TRIPS 0 0 0 0 0 0 0 0 TRIPS 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7) White Movemen WBL WBR NBR SBI SBI 9) US R Movemen EBI EBF WBL WBL WBL	PERCEI PERCEI	NTAGES Out annah Dust NTAGES Out	0	PS		(7) Whitnot Wovement WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL WBT NBL	PERCEI	Out annah Dust	ge Drive TR In 0 0 0 0 0 in Drive	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitm Movement WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL WBL WBT	PERCE In PERCE In PERCE In	Out annah Dusi NTAGES Out	ge Drive TR In 0 0 0 0 0 TR In 0 0 0 0 0 0 0 0 0 0 0 0 0	IPS	(7) Whitney Road at Interchange I Movement	TRIPS 0 0 0 0 0 0 0 TRIPS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SBF 7) Whitr Wovemen WBL WBF NBT SBL SBT 9) US Re Movemen EBT EBF WBL NBF	PERCEI PERCEI PERCEI PERCEI PERCEI PERCEI PERCEI PERCEI PERCEI R R R R	NTAGES Out annah Dust NTAGES Out 31%	0 0	PS		(7) Whitne	ute 4 at Ha	Out Annah Dust NTAGES Out	ge Drive TF In 0 0 0 0 0 in TF In In In In In In In In In I	RIPS	(7) Whitm Movement WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL WBL NBR	PERCE In PERCE In 8%	Out annah Dusi NTAGES Out 8%	ge Drive TR In 0 0 0 0 0 tin Drive TR In 0 0 0 0 0 0 0 0 0 0 0 0 0	IPS	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBT (9) US Route 4 at Hannah Dustin I Movement EBT EBR WBL WBT NBL NBR	TRIPS
SBF 7) Whitr Wovemen WBL WBF NBT SBL SBT 9) US Re Movemen EBT EBF WBL NBF	PERCEI PERCEI I R PERCEI I I I I I I I I I I I I	NTAGES Out annah Dust NTAGES Out 31% Harris Hill C	0 0	PS		(7) Whitne	PERCEI In ute 4 at Ha PERCEI In	NTAGES Out annah Dust NTAGES Out Arris Hill C	ge Drive TF In 0 0 0 0 0 0 TF In TF	RIPS Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitm Movement WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL WBL NBR	PERCE In ute 4 at H PERCE In 8%	NTAGES Out annah Dusi NTAGES Out 8%	ge Drive TR In 0 0 0 0 0 0 TR In 0 0 0 0 0 0 0 0 0 Connector	PS	(7) Whitney Road at Interchange I Movement	TRIPS
SBF White WB WBF SBI SBI SBI WHO WBF SBI SBI WBF SBI SBI WBF SBI WBF SBI WBF SBI WBF WBF WBF WBF WBF WBF WBF W	ney Road at PERCEI II II R R II II R R II II R R R R R R	Annah Dust NTAGES Out annah Dust NTAGES Out 31% darris Hill C	0 0 1 1 1 1 1 1 1 1	IPS		(7) Whitne	ute 4 at Ha PERCEI In oute 4 at F	Out Bannah Dustangs Out Out Bannah Dustangs Out Barris Hill C	ge Drive TF In 0 0 0 0 0 TF In TF In TF In TF In	Out O O O O O O O O O	(7) Whitm Movement WBL WBR NBT NBR SBL SBI (9) US Ro Movement EBT EBR WBL WBL NBR	ute 4 at H. PERCE In 8% oute 4 at II	annah Dust NTAGES Out NTAGES Aswin Barris Hill (NTAGES	ge Drive	IPS	(7) Whitney Road at Interchange I Movement WBL	TRIPS 0 0 0 0 0 0 0 TRIPS 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SBF 77) Whitr Wbl WBF WBF SBI SBI SBI WBF SBI SBI WBF	PERCEI PERCEI T R PERCEI T T T T T T T T T T T T T	NTAGES Out annah Dust NTAGES Out 31% Harris Hill C	O O O O O O O O O O	PS		(7) Whitne	PERCEI In ute 4 at Ha PERCEI In	NTAGES Out annah Dust NTAGES Out Harris Hill C	ge Drive TF In 0 0 0 0 0 0 TF In TF	RIPS Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(7) Whitn- Wovement WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL NBR WBL NBR (11) US R	PERCE In 8% oute 4 at H. PERCE In 8%	NTAGES Out annah Dusi NTAGES Out 8%	ge Drive TR	PS	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBT (9) US Route 4 at Hannah Dustin I Movement EBT EBR WBL WBT NBL NBR (11) US Route 4 at Harris Hill Con	TRIPS
SBF 7) Whitr White WBI WBB NBF SBI SBI SBI MOVEMENT BBI NBF HILL HOVEMENT BBI NBF HILL HILL	perceit in Table 1 12%	Annah Dust NTAGES Out annah Dust NTAGES Out 31% Harris Hill C	0 0 15 15 15 15 15 15	PS		(7) Whitne	ute 4 at Ha PERCEI In oute 4 at F	Out Bannah Dustangs Out Out Bannah Dustangs Out Barris Hill C	ge Drive TF In 0 0 0 0 0 TF In TF In TF In TF In	Out O O O O O O O O O	(7) Whitm Movement WBI WBR NBT NBR SBI (9) US Ro Movement EBT EBR WBI NBR (11) US R	ute 4 at H. PERCE In 8% oute 4 at II	annah Dust NTAGES Out NTAGES Out 8%	ge Drive	PS	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBT (9) US Route 4 at Hannah Dustin I Movement EBT EBR WBL WBL NBR (11) US Route 4 at Harris Hill Con	TRIPS 0 0 0 0 0 TRIPS 3 0 0 TRIPS 3 TRIPS 1
SBF 7) Whitr WBI WBF NBB NBB SBI SBI SBI USBF SB	ney Road at PERCEI II R R II R R II R R R R R R R R R R	annah Dust NTAGES Out 31% Samuel Samu	0 0 1 1 1 1 1 1 1 1	PS		(7) Whitne	ute 4 at Ha PERCEI In oute 4 at F	Out Bannah Dustangs Out Out Bannah Dustangs Out Barris Hill C	ge Drive TF In 0 0 0 0 0 TF In TF In TF In TF In	Out O O O O O O O O O	(7) Whitn- Wovement WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL NBR (11) US R Movement EBT EBR	PERCE In 8% oute 4 at H. PERCE In 8%	annah Dust NTAGES Out NTAGES Out 8%	ge Drive TR In O O O O O O O O O O O O O O O O O O	PS	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBT (9) US Route 4 at Hannah Dustin I Movement EBT EBR WBL WBT NBL NBR (11) US Route 4 at Harris Hill Con	TRIPS 0
SBF 7) Whitr 7) Whitr 7) Whitr 7) Whitr 7) Whitr 8 8 8 8 8 9) US R 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	PERCEI T T T T T T T T T T T T T	annah Dust NTAGES Out annah Dust NTAGES Out 31% Harris Hill C NTAGES Out	O O O O O O O O O O	IPS		(7) Whitne	ute 4 at Ha PERCEI In oute 4 at F	Out Bannah Dustangs Out Out Bannah Dustangs Out Barris Hill C	ge Drive TF In 0 0 0 0 0 TF In TF In TF In TF In	Out O O O O O O O O O	(7) Whitm: Movement WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL NBR (11) US R Movement EBT EBR WBL NBR	PERCE In 8% oute 4 at H. PERCE In 8%	Annah Dusintages Out Annah Dusintages Out B% B% BM BM BM BM BM BM BM BM	TR In O O O O O O O O O	PS	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBT (9) US Route 4 at Hannah Dustin I Movement EBT EBR WBL NBR (11) US Route 4 at Harris Hill Con Movement EBT EBR WBL WBL WBC WBC WBC WBC WBC WBC	TRIPS 0 0 0 0 0 0 0 TRIPS 3 0 0 TRIPS 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SBF 7) Whitr WBI WBF NBB NBB SBI SBI SBI USBF SB	ney Road at PERCEI II II R R R R R R R R R R R R R R R R	annah Dust NTAGES Out 31% Samuel Samu	0 0 1 1 1 1 1 1 1 1	PS		(7) Whitne	ute 4 at Ha PERCEI In oute 4 at F	Out Bannah Dustangs Out Out Bannah Dustangs Out Barris Hill C	ge Drive TF In 0 0 0 0 0 TF In TF In TF In TF In	Out O O O O O O O O O	(7) Whitn- Wovement WBL WBR NBT NBR SBL SBT (9) US Ro Movement EBT EBR WBL NBR (11) US R Movement EBT EBR	PERCE In 8% oute 4 at H. PERCE In 8%	annah Dust NTAGES Out NTAGES Out 8%	ge Drive TR In O O O O O O O O O O O O O O O O O O	PS	(7) Whitney Road at Interchange I Movement WBL WBR NBT NBR SBL SBT (9) US Route 4 at Hannah Dustin I Movement EBT EBR WBL WBT NBL NBR (11) US Route 4 at Harris Hill Con	TRIPS 0
SBF 7) Whitri Wovemen WBL WBF NBB SBI SBI SBI SBI I I I I I I I I I I I	perceit in	annah Dust NTAGES Out annah Dust NTAGES Out 31% Harris Hill C NTAGES Out	0 0 0 0 0	PS		(7) Whitne	ute 4 at Ha PERCEI In oute 4 at F	Out Bannah Dustangs Out Out Bannah Dustangs Out Barris Hill C	ge Drive TF In 0 0 0 0 0 TF In TF In TF In TF In	Out O O O O O O O O O	(7) Whitm Movement WBL WBR NBT NBR SBL SBI (9) US Ro Movement EBT EBR WBL NBR (11) US R Movement EBT EBR WBU WBT MOVEMENT EBR WBU WBT EBR WBL	PERCE In 8% oute 4 at H. PERCE In 8%	Annah Dusintages Out Annah Dusintages Out B% B% BM BM BM BM BM BM BM BM	TR	IPS	(7) Whitney Road at Interchange I Movement WBL	TRIPS 0 0 0 0 0 0 0 0 0

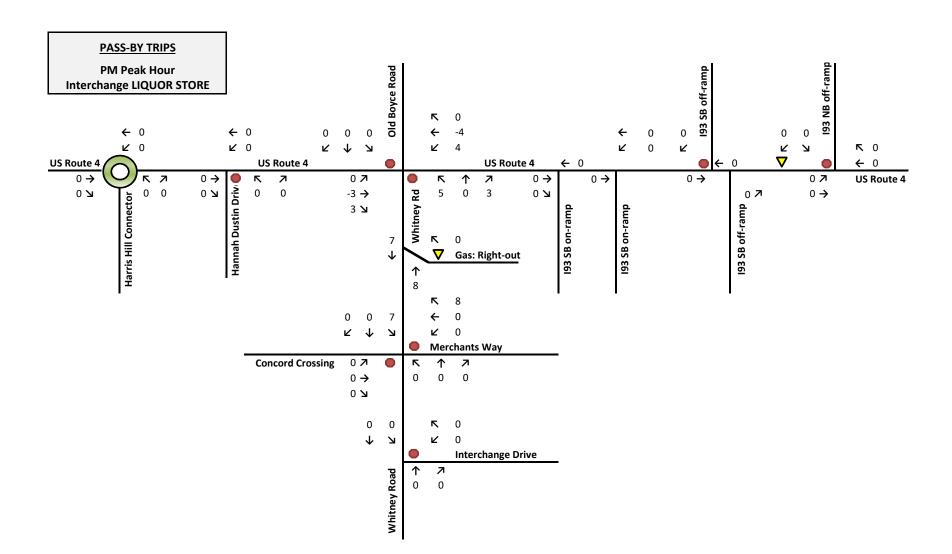


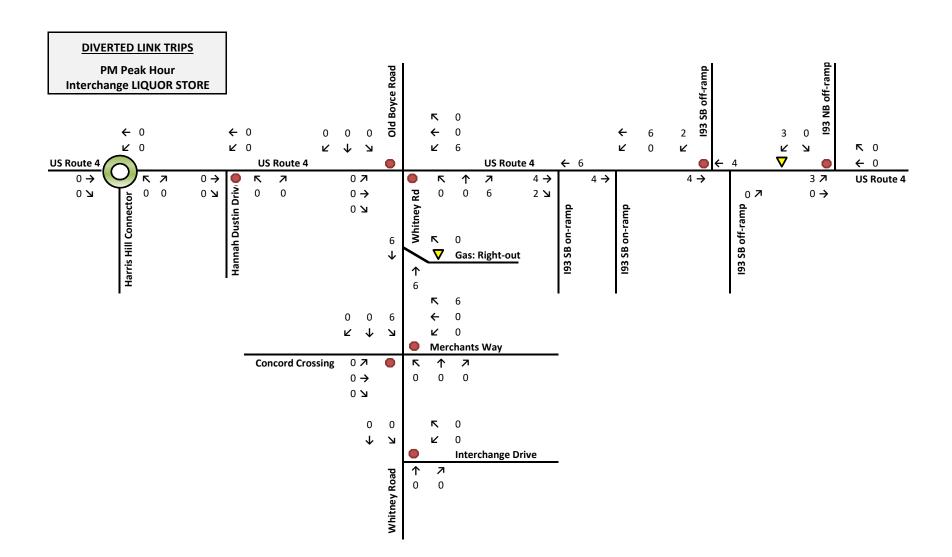












Year 2018 Monthly Data

Group 4 Averages: Urban Highways

	Adjustm	ent to
<u>ADT</u>	<u>Average</u>	<u>Peak</u>
11,282	1.13	1.24
11,848	1.08	1.18
11,828	1.08	1.18
12,491	1.02	1.12
13,587	0.94	1.03
13,911	0.92	1.00
13,765	0.93	1.01
13,945	0.92	1.00
13,168	0.97	1.06
13,367	0.96	1.04
12,215	1.05	1.14
11,963	1.07	1.17
	11,282 11,848 11,828 12,491 13,587 13,911 13,765 13,945 13,168 13,367 12,215	11,282 1.13 11,848 1.08 11,828 1.08 12,491 1.02 13,587 0.94 13,911 0.92 13,765 0.93 13,945 0.92 13,168 0.97 13,367 0.96 12,215 1.05

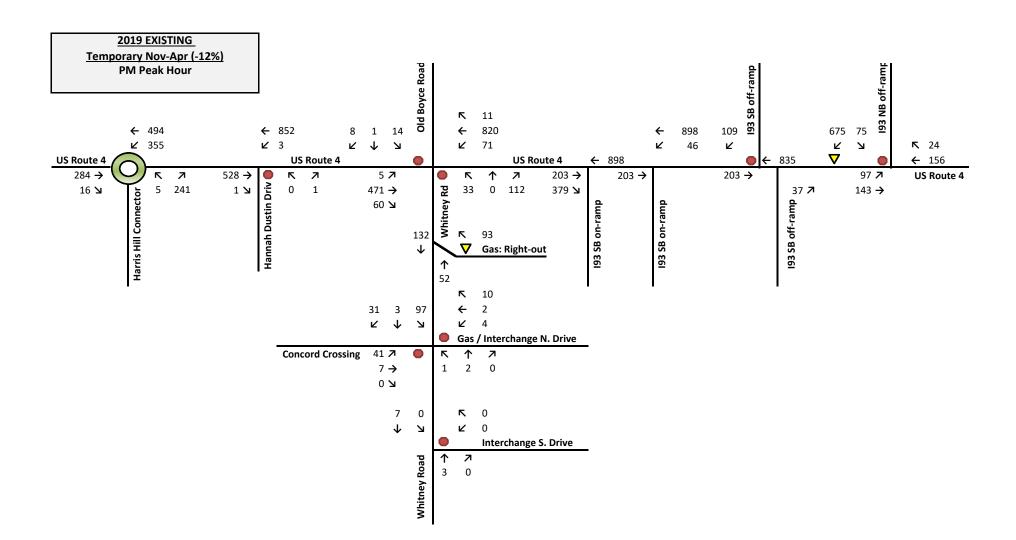
Average ADT: 12,781
Peak ADT: 13,945

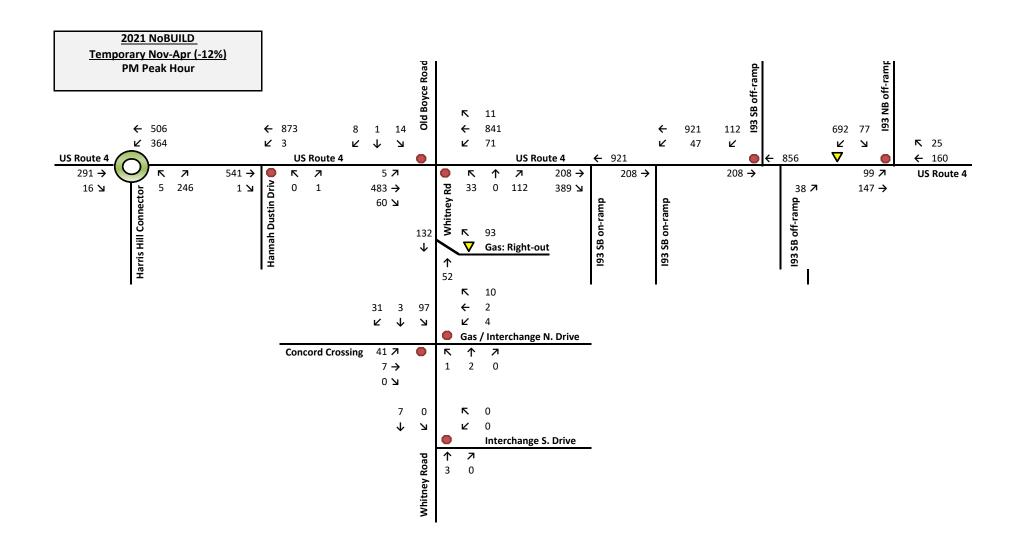
kground Traffic Volumes																
Peak data																
Assumed growth rate (Route 4)	0.0125		Per HDF	R Report												
Assumed growth rate (other roads)	0.01															L
NOV-APRIL 2018 SEASONAL		Note: TIAS Counts				porary cor	ndition will	be during	November	r-April whe	n 2018 cou	ints were o	down; Apri	1 12% most	conserva	ive
June/August 2018 Seasonal Adjust	1.00	NHDOT monthly a	adjustment	factors -	Group 4											
PM Peak Hour 4:30 PM	2019 Counts (Raw data) [06/20/2019]	2019 Existing w/ Seasonal Adjustment reduction	Balance	2019 Existing	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
(29) US Route 4 at																
I93 NB on/off-ramp	(Int C)															
Movement	(IIIL C)															
EBL	404	92	+5	97	98.21	99.44	100.68	101.94	103.21	104.50	105.81	107.13	108.47	109.83	111.20	113
EBT	<u>104</u> <u>156</u>	137	+6	143	144.79	146.60	148.43	150.29		154.07	156.00	157.95		161.92	163.94	166
	156 177		+0													
WBT		156		156	157.95	159.92	161.92	163.94			170.16	172.29		176.62	178.83	181
WBR	<u>27</u>	24		24	24.30	24.60	24.91	25.22		25.86	26.18	26.51	26.84	27.18	27.52	28
SBL	<u>85</u>	75		75	75.94	76.89	77.85	78.82	79.81	80.81	81.82	82.84	83.88	84.93	85.99	87
(28) US Route 4 at																
I93 NB off-ramp	(calculated-thru)															
Movement	, ,															
EBT	260	229	+11	240	243.00	246.04	249.12	252.23	255.38	258.57	261.80	265.07	268.38	271.73	275.13	279
WBT	177	156					167.11				175.63	177.83			184.58	187
			+5	161	163.01	165.05		169.20						182.30		
SBR	<u>744</u>	655	+20	675	683.44	691.98	700.63	709.39	718.26	727.24	736.33	745.53	754.85	764.29	773.84	784
(26) US Route 4 at																
I93 SB off-ramp	(calculated)															
Movement	` '															
EBT	218	192	+11	203	205.54	208.11	210.71	213.34	216.01	218.71	221.44	224.21	227.01	229.85	232.72	236
WBT	921	810	+25	835	845.44	856.01	866.71	877.54		899.62	910.87	922.26		945.46	957.28	969
NER	42	37		37	37.46	37.93	38.40	38.88		39.86	40.36	40.86	41.37	41.89	42.41	43
NEN	72	- 07		- 01	07.40	01.00	00.40	00.00	00.01	00.00	40.00	40.00	41.07	41.00	72.71	70
(24) 110 2 1 4 1																
(24) US Route 4 at																
193 SB off-ramp	(calculated)															
Movement																
EBT	218	192	+11	203	205.54	208.11	210.71	213.34	216.01	218.71	221.44	224.21	227.01	229.85	232.72	236
WBT	921	810	+25	835	845.44	856.01	866.71	877.54	888.51	899.62	910.87	922.26	933.79	945.46	957.28	969
SBR	120	106	+3	109	110.36	111.74	113.14				118.90	120.39		123.41	124.95	127
					. ,-						. ,,,					
																-
(21) US Route 4 at																
	(1.1.5)															
I93 SB on-ramp	(Int B)															
Movement																
EBT	<u>218</u>	192	+11	203	205.54	208.11	210.71				221.44	224.21	227.01	229.85	232.72	236
WBL	<u>52</u>	46		46	46.58	47.16	47.75	48.35		49.56	50.18	50.81	51.45	52.09	52.74	53
WBT	989	870	+28	898	909.23	920.60	932.11	943.76	955.56	967.50	979.59	991.83	1004.23	1016.78	1029.49	1042
									1				1		1	
(20) US Route 4 at																
I93 SB on-ramp	(calculated)															
	(valvulated)			-										-		
Movement	240	400	144	202	205.51	200.44	040.74	040.04	040.04	040.74	004.44	004.04	207.01	220.05	000.70	000
EBL	218	192	+11	203	205.54	208.11	210.71	213.34			221.44	224.21	227.01	229.85	232.72	236
EBT	407	358	+21	379	383.74	388.54	393.40				413.44	418.61	423.84	429.14	434.50	440
SWR	989	870	+28	898	909.23	920.60	932.11	943.76	955.56	967.50	979.59	991.83	1004.23	1016.78	1029.49	1042
				l					1				1	l		

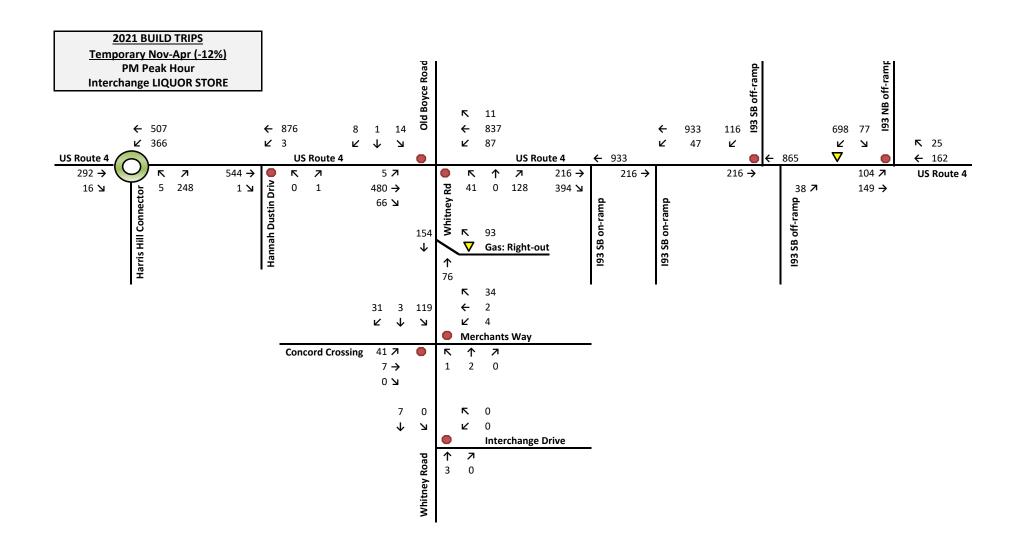
(3) US Route 4 at Whitney Road/Old Boyce Road	2019 Counts (Raw data) [06/20/2019]	2019 Existing w/ Seasonal Adjustment reduction	Balance	2019 Existing	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Movement EBL	<u>6</u>	5		5	5.06	5.12	5.18	5.24	5.31	5.38	5.45	5.52	5.59	5.66	5.73	5.80
EBT	5 <u>0</u> 1	441	+30	471	476.89	482.85	488.89	495.00	501.19	507.45	513.79	520.21	526.71	533.29	539.96	546.71
EBR	501 60 71	60		60	60	60	60	60	60	60	60	60	60	60	60	60
WBL WBT	<u>/1</u> 900	71 792	+28	71 820	71 830.25	71 840.63	71 851.14	71 861.78	71 872.55	71 883.46	71 894.50	71 905.68	71 917.00	71 928.46	71 940.07	71 951.82
WBR	13	11	120	11	11.14	11.28	11.42	11.56	11.70	11.85	12.00	12.15	12.30	12.45	12.61	12.77
NBL	32 0	32	+1	33	33	33	33	33	33	33	33	33	33	33	33	33
NBT NBR	. <u>0</u> 110	0 110	+2	0 112	0 112	0 112	0 112	112	0 112	0 112	0 112	112	0 112	0 112	0 112	0 112
SBL	14	14	- '2	14	14	14	14	14	14	14	14	14	14	14	14	14
SBT	<u>1</u>	1		1	1	1	1	1	1	1	1	1	1	1	1	1
SBR		8 ney Road or Old Boy	on Bond o	8	8	8	8	8	8	8	8	8	8	8	8	8
		icy road or Old Doy	rcc rcoad, a	iii site trips (acaa cna)											
(4) Whitney Road at	2019 Counts															
Gas: Right-out	(Raw data) [08/06/2019]															
Movement	[00/00/2019]															
WBR	93	93		93	93	93	93	93	93	93	93	93	93	93	93	93
NBT SBT	<u>52</u> 131	52 131	+1	52 132	52 132	52 132	52 132	52 132	52 132	52 132	52 132	52 132	52 132	52 132	52 132	52 132
651					.52	.52	.52	.52	.52	.52	.52	.52	.32	.52	.52	.02
(E) M/Liter Deced -t	2019 Counts (Raw data)															
(5) Whitney Road at Interchange North Site Driveway	(Raw data) [08/06/2019]															
Movement																
EBL	<u>41</u> <u>7</u>	41		41	41	41	41	41	41	41	41	41	41	41	41	41
EBT EBR	. <u>7</u>	7 0		7	7	7	7 0	7	7	7	7	7	7	7 0	7 0	7 0
WBL	<u>0</u> 4	4		4	4	4	4	4	4	4	4	4	4	4	4	4
WBT	<u>4</u> <u>2</u>	2		2	2	2	2	2	2	2	2	2	2	2	2	2
WBR NBL	<u>10</u>	10 1		10	10	10 1	10 1	10 1		10	10 1	10	10 1	10 1	10 1	10
NBT	1 2 0	2		2	2	2	2	2	2	2	2	2		2	2	
NBR	<u>0</u>	0		0	0	0	0	0	0	0	0	0	0	0	0	2 0
SBL SBT	<u>96</u>	96 3	+1	97 3	97	97	97 3	97	97 3	97	97 3	97	97	97 3	97 3	97 3
SBR	3 31	31		31	31	31	31	31	31	31	31	31	31	31	31	31
(7) Whitney Road at																
Interchange South Site Driveway	(calculated)															
Movement	, ,															
WBL WBR																
NBT	3	3		3	3	3	3	3	3	3	3	3	3	3	3	3
NBR																
SBL SBT	7	7		7	7	7	7	7	7	7	7	7	7	7	7	7
351		•														
(2)																
(9) US Route 4 at Hannah Dustin Drive	(calculated @ 3)															
Movement	(saloulated (@ 3)															
EBT	566	498	+30	528	534.60	541.28	548.05	554.90	561.84	568.86	575.97	583.17	590.46	597.84	605.31	612.88
EBR WBL	1 3	1		3	1 3	1	1	1	1	1	1	1	1	1	1	1
WBL	936	3 824	+28	852	862.65	873.43	884.35	895.40	906.59		929.39	941.01	952.77	964.68	976.74	988.95
NBL	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
NBR	1 *5 Trips estimated for	1 or the residences on	Hannah D	1 ustin Drive a	1 and distribut	1 red ner ITF	1 UC 210 ar	1 ad US Rout			1	1	1	1	1	1
	o mpo coumateu it			JOSH DIVE &	distribut	os por rrE	a	55 1.000	.c Frional							
	2019 Counts	2019 Existing														
(11) US Route 4 at	(Raw data)	w/ Seasonal Adjustment	Balance	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Harris Hill Connector	[08/22/2019]	reduction														
Movement	202	204		204	207.55	204.44	204.70	200 42	200.40	205.07	200.70	212.00	217.50	224 55	205.57	220.04
EBT EBR	<u>323</u> <u>18</u>	284 16		284 16	287.55 16.20	291.14 16.40	294.78 16.61	298.46 16.82	302.19 17.03	305.97 17.24	309.79 17.46	313.66 17.68	317.58 17.90	321.55 18.12	325.57 18.35	329.64 18.58
WBL	403	355		355	359.44	363.93	368.48	373.09	377.75	382.47	387.25	392.09	396.99	401.95	406.97	412.06
WBT	<u>561</u>	494		494	500.18	506.43	512.76	519.17	525.66	532.23	538.88	545.62	552.44	559.35	566.34	573.42 5.63
NBL NBR	<u>6</u> 274	5 241		5 241	5.06 244.01	5.11 246.45	5.16 248.91	5.21 251.40	5.26 253.91	5.31 256.45	5.36 259.01	5.41 261.60	5.46 264.22	5.51 266.86	5.57 269.53	
NBR	274	241		241	244.01	246.45	248.91	251.40	253.91	256.45	259.01	261.60	264.22	266.86	269.53	272.23

	DO	NOT ADJUST	PHF OR I	V FOR LI	QUOR ONLY						
PM Peak Hour	PM PHF	2021/2031 PHF Adjust	PM %Heavy	PM #Heavy	2021/2031 % Heavy Adjust		PM Peak Hour	2019 Existing (Nov-Apr)	2021 No-Build (Temp. Nov-Apr)	Site Trip Distribution Interchange LIQUOR STORE	2021 Build (Temp. Nov-A
(29) US Route 4 at							(29) US Route 4 at				
I93 NB on/off-ramp							I93 NB on/off-ramp				
Movement							Movement			TRIPS	
EBL		-	2%	2	-		EBL	97	99	5	104
EBT	0.88	-	1% 2%	1	-		EBT	143	147	2	149
WBT		-	2%	4	-		WBT	156	160	2	162
WBR	0.90	-	0% 0%	0	-		WBR	24	25	0	25
SBL	0.71	-	<u>0%</u>	0	-		SBL	75	77	0	77
(28) US Route 4 at I93 NB off-ramp							(28) US Route 4 at 193 NB off-ramp				
<u>Movement</u>							<u>Movement</u>			TRIPS	
EBT	-	-	1%	3	-		EBT	240	246	8	254
WBT	-	-	2%	4	-		WBT	161	165	2	167
SBR	0.94	-	<u>1%</u>	11	-		SBR	675	692	6	698
(26) US Route 4 at							(26) US Route 4 at			•	
193 SB off-ramp							193 SB off-ramp				
Movement							Movement			TRIPS	
EBT	-	-	1%	3	-		EBT	203	208	8	216
WBT	-	_	2%	15	-		WBT	835	856	9	865
NER	-	-	0%	0	-		NER	37	38	Ö	38
(24) US Route 4 at							(24) US Route 4 at				
I93 SB off-ramp							I93 SB off-ramp				
Movement							Movement			TRIPS	
EBT	-	-	1%	3	-		EBT	203	208	8	216
WBT	-	-	2%	15	-		WBT	835	856	9	865
SBR	1	1	1%	1	-		SBR	109	112	4	116
(21) US Route 4 at							(21) US Route 4 at				
193 SB on-ramp							I93 SB on-ramp				
Movement							Movement			TRIPS	
EBT	0.80	-	1%	3	-		EBT	203	208	8	216
WBL	0.90	-	1% 2%	1	-		WBL	46	47	0	47
WBT	0.90	-	2%	16	-		WBT	898	921	12	933
(20) 110 0							(20) 110 B				
(20) US Route 4 at I93 SB on-ramp							(20) US Route 4 at 193 SB on-ramp				
Movement							Movement			TRIPS	
EBL		-	1%	3	-		EBL	203	208	8	216
EBT	-	-	3%	13	-		EBT	379	389	5	394
SWR	-	-	2%	16	-		SWR	898	921	12	933
			1		1	1			1		

(3) US Route 4 at Whitney Road/Old Boyce Road Movement		2021/2031 PHF Adjust		PM #Heavy	2021/2031 % Heavy Adjust	(3) US Route 4 at Whitney Road/Old Boyce Road Movement		2021 No-Build (Temp. Nov-Apr)	Site Trip Distribution Interchange LIQUOR STORE TRIPS	2021 Build (Temp. Nov-Apr)
EBL			0% 2% 2% 3% 2% 8% 6% 0%	0	-	EBL	5	5	0	5
EBT		0.92	2%	10	-	EBT	471	483	-3 6	480
EBR			2%	1	1% 1%	EBR WBL	60	60	6	66
WBL		0.02	3%	2	1%		71	71	16	87
WBT WBR	0.91	0.92	2%	15	-	WBT WBR	820	841	-4	837
NBL			6%	1 2	2%	NBL	11 33	11 33	-4 0 8 0	11 41
NBT		0.92	0%	0	-	NBT	0	0	n	0
NBR		0.02	5%	6	2%	NBR	112	112	16	128
SBL	Ī		5% 0%	0	-	SBL	14	14	16 0 0	14
SBT	0.72	no change	100%	1	-	SBT	1	1	0	1
SBR			0%	0	-	SBR	8	8	0	8
(4) Whitney Road at Gas: Right-out Movement WBR NBT SBT	0.80	-	3% 2% 1%	3 1 1	-	(4) Whitney Road at Gas: Right-out Movement WBR NBT SBT	93 52 132	93 52 132	TRIPS 0 24 22	93 76 154
(5) Whitney Road at Interchange North Site Driveway <u>Movement</u> EBL		no change	0%	0	-	(5) Whitney Road at Interchange North Site Driveway <u>Movement</u> EBL EBT	41 7	41	TRIPS	41 7
EBR		no change	0% 0%	0		EBR	0	0	0 0	0
WBL			0%	0	-	WBL	4	4	0	4
WBT		0.92	0% 0%	0	-	WBT	2	2	0 0	2
WBR		0.02	20%	2	2%	WBR	10	10	24	34
NBL			20% 0%	0	-	NBL	1	1	24 0 0 0	1
NBT	0.38	0.92	0%	0	-	NBT	2	2	0	2
NBR			0%	0	-	NBR	0	0	0	0
SBL			0% 0% 1% 0%	1	-	SBL	97	97	22	119
SBT	0.90	0.92	0%	0	-	SBT	3	3	0 0	3
SBR			0%	0	-	SBR	31	31	0	31
(7) Whitney Road at Interchange South Site Driveway Movement WBL WBR NBT NBT SBR SBR SBR SBR SBR			0%	0	-	(7) Whitney Road at Interchange South Site Driveway Movement WBL WBR NBT NBR SBL SBT	0 0 3 0 0 7	0 0 3 0 0 7	TRIPS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 3 0 0 0 7
(9) US Route 4 at Hannah Dustin Drive <u>Movement</u> EBT EBR	-	-	2% 0%	11	-	(9) US Route 4 at Hannah Dustin Drive <u>Movement</u> EBT EBR	528 1	541 1	TRIPS 3 0	544 1
WBL	-	-	0%		-	WBL	3	3	0 0 3 0	3
WBT	-	-	2%	17	-	WBT	852	873	3	876
NBL		-	0%		-	NBL	0	0	0	0
NBR		-	0%		-	NBR	1	1	U	1
(11) US Route 4 at Harris Hill Connector <u>Moveme</u> nt		2021/2031 PHF Adjust	PM %Heavy	PM #Heavy	2021/2031 % Heavy Adjust	(11) US Route 4 at Harris Hill Connector Movement			TRIPS	
EBT			5%	15		EBT	284	291	1	292
EBR	0.95	-	0%	0	-	EBR	16	16		16
WBL	-	-	0% 0% 3% 0%	0	-	WBL	355	364	0 2	366
WBT	0.90	-	3%	17	-	WBT	494	506	1	507
NBL	0.78	-	0%	0	-	NBL	5	5	0	5
NBR		-	2%	5	-	NBR	241	246	2	248







Intersection												
Int Delay, s/veh	5.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<u></u>	7	ሻ	\$	WER	NDL	4	7	ODL	4	ODIT
Traffic Vol, veh/h	5	483	60	71	841	11	33	0	112	14	1	8
Future Vol, veh/h	5	483	60	71	841	11	33	0	112	14	1	8
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
ğ	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	160	-	250	160	-	-	-	-	0	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	78	78	78	91	91	91	91	91	91	72	72	72
Heavy Vehicles, %	0	2	2	3	2	8	6	0	5	0	100	0
Mvmt Flow	6	619	77	78	924	12	36	0	123	19	1	11
Major/Minor Major/Minor	ajor1		١	Major2		Min			Minor2			
Conflicting Flow All	936	0	0	696	0	0	1723	1723	619	1817	1794	930
Stage 1	-	-	-	-	-	-	631	631	-	1086	1086	-
Stage 2	-	-	-	-	-	-	1092	1092	-	731	708	-
Critical Hdwy	4.1	-	-	4.13	-	-	7.16	6.5	6.25	7.1	7.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.16	5.5	-	6.1	6.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.16	5.5	-	6.1	6.5	-
Follow-up Hdwy	2.2	-	-	2.227	-	-	3.554	4	3.345	3.5	4.9	3.3
Pot Cap-1 Maneuver	740	-	-	895	-	-	68	90	483	61	47	327
Stage 1	-	-	-	-	-	-	462	477	-	264	198	-
Stage 2	-	-	-	-	-	-	255	293	-	416	319	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	740	-	-	895	-	-	59	82	483	42	43	327
Mov Cap-2 Maneuver	-	-	-	-	-	-	59	82	-	42	43	-
Stage 1	-	-	-	-	-	-	458	473	-	262	181	-
Stage 2	-	-	-	-	-	-	223	268	-	307	316	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.1			0.7			42.4			119.3		
HCM LOS							Ε			F		
Minor Lane/Major Mvmt		NBLn1 I	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1		
Capacity (veh/h)		59	483	740	-	-	895	-	-			
HCM Lane V/C Ratio			0.255		-	-	0.087	-	-	0.532		
HCM Control Delay (s)		135.5	15	9.9	-	-	9.4	-		119.3		
HCM Lane LOS		F	С	Α	-	-	Α	-	-	F		
HCM 95th %tile Q(veh)		2.5	1	0	-	-	0.3	-	-	2.1		

Intersection												
Int Delay, s/veh 8.2												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	†	1	ች	₽			र्स	7		4	
Traffic Vol, veh/h	5	480	66	87	837	11	41	0	128	14	1	8
Future Vol, veh/h	5	480	66	87	837	11	41	0	128	14	1	8
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	160	-	250	160	-	-	-	-	0	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	78	78	78	91	91	91	91	91	91	72	72	72
Heavy Vehicles, %	0	2	2	3	2	8	6	0	5	0	100	0
Mvmt Flow	6	615	85	96	920	12	45	0	141	19	1	11
Major/Minor N	/lajor1			Major2			Minor1		1	Minor2		
Conflicting Flow All	932	0	0	700	0	0	1751	1751	615	1858	1830	926
Stage 1	-	-	-	-	-	-	627	627	-	1118	1118	-
Stage 2	_	_	-	_	_	_	1124	1124	_	740	712	_
Critical Hdwy	4.1	_	-	4.13	_	_	7.16	6.5	6.25	7.1	7.5	6.2
Critical Hdwy Stg 1	-	_	_	-	_	_	6.16	5.5	-	6.1	6.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.16	5.5	-	6.1	6.5	-
Follow-up Hdwy	2.2	-	-	2.227	-	-	3.554	4	3.345	3.5	4.9	3.3
Pot Cap-1 Maneuver	743	-	-	892	-	-	65	87	486	57	44	329
Stage 1	-	-	-	-	-	-	465	479	-	254	190	-
Stage 2	-	-	-	-	-	-	245	283	-	412	317	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	743	-	-	892	-	-	56	77	486	37	39	329
Mov Cap-2 Maneuver	-	-	-	-	-	-	56	77	-	37	39	-
Stage 1	-	-	-	-	-	-	461	475	-	252	169	-
Stage 2	-	-	-	-	-	-	210	252	-	290	314	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.1			0.9			56.3			141.6		
HCM LOS	J. 1			0.7			50.5 F			F		
							,			,		
Minor Lane/Major Mvmt	† [NBLn1	NBI n2	EBL	EBT	EBR	WBL	WBT	WBR:	SBI n1		
Capacity (veh/h)		56	486	743	-	-	892	-	-	54		
HCM Lane V/C Ratio			0.289		_	_	0.107	_		0.592		
HCM Control Delay (s)		184.1	15.4	9.9	-	_	9.5	-		141.6		
HCM Lane LOS		F	C	Α	_	_	Α.	_	_	F		
				, ,			, ,					

0.4

2.3

3.5

1.2

HCM 95th %tile Q(veh)



THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



Victoria F. Sheehan Commissioner

September 8, 2021

City of Concord c/o David Cedarholm City Hall, 41 Green Street Concord, NH 03301

To Whom It May Concern:

Your request to update/amend New Hampshire Department of Transportation Driveway Permit No. 05-099-0006 for your driveway(s) located on the south side of Route 4 in the City of Concord, for the purpose of constructing a State liquor store, has been reviewed. Conditions in this area have not substantially changed and, by this letter, Driveway Permit No. 05-099-0006 is renewed/revised for one year from this date. All other regulations and requirements of the original permit shall be adhered to by the applicant or his representative or successor. A copy of the original permit is enclosed for your use.

Sincerely,

Brian A. Desfosses, P.E. Assistant District Engineer

BAD/dlp

cc: MAJ SCL (525)

File with Permit No. 05-099-0006

5/24/13



STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

District 5 Office, 16 East Point Drive, Bedford, NH 03110 603-666-3336

JEFF BRILLHART, P.E. ASSISTANT COMMISSIONER

CHRISTOPHER D. CLEMENT, COMMISSIONER

DRIVEWAY PERMIT

City/Town:

Concord US 4 (U0000004) Permit #:

05-099-0006

CITY OF CONCORD 41 GREEN STREET

To: THOMAS J ASPELL JR.

Route/Road: Patrol Section: 525

05 District:

Permit Date 5/16/2013

CONCORD, NH 03301

Tax Map:

06P 5

Lot:

Development: Town Road improvements for bus

Permission is hereby granted to construct (alter) a driveway, entrance, exit or approach adjoining US 4 (U0000004), pursuant to the location and specifications as described below. Failure to adhere to the standards and engineering drawings previously approved shall render this instrument null and void. Failure to start or complete construction of said facility within one calendar year of the date of this permit shall require application for permit extension or renewal in accordance with the Driveway Access Rules. Facilities constructed in violation of the permit specifications or the rules, shall be corrected immediately upon notification by a Department representative. Any cost by the State to correct deficiencies shall be fully borne by the landowner. The landowner shall defend, indemnify and hold harmless the Department and its duly appointed agents and employees against any action for personal injury and/or property damage sustained by reason of the exercise of this permit.

Drive 1

Location:

Approximately 0 miles from/ of Whitney Rd. on the west side of US 4 (U0000004).

SLD Station: 3835 (left)

GPS: 43.289014 N 71.581705 W.

Specifications: This permit authorizes a paved access to be used as a Town Road/ drive. Any change in use, increase in use or reconstruction of the driveway requires reapplication.

> The right-of-way line is located 95 feet from and parallel to the centerline of the highway. The entrance shall be graded so that the surface of the drive drops (see plan) at a point (see plan) from US 4 (U0000004) edge of pavement to create a drainage swale.

The driveway shall not exceed (see plan) in width. The entrance of the drive may be flared; typically the flare radius is one half the driveway width.

These improvements to Whitney Road and U.S. Route 4 will serve a proposed gas station and convenience store located on the east side of Whitney Road, just south of U.S. Route 4.

Driveway and related roadway modifications are to be constructed as shown on plans prepared by MHF Design Consultants, Inc. dated May 13, 2013 for Drake Petroleum Co. Inc., on file in the District Five Office.

Other Conditions:

No structures, including buildings, permanent or portable signs, lights, displays, fences, walls, etc. shall be permitted on, over or under the Highway Right of Way.

No parking, catering or servicing shall be conducted within the Highway Right of Way.

The applicant shall comply with all applicable ordinances and regulations of the municipality or other State Agencies.

The Department has relied on the title and subdivision information provided by the landowner. The Department has not performed additional title research and makes no warranty or representation concerning landowner's legal right to access. In the event of a dispute about the landowner's legal right to the access provided herein, the landowner will defend and indemnify the Department.

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No work in the State right-of-way shall be performed between November 15 and April 15, or during periods of inclement weather, unless otherwise directed or authorized by the District Engineer.

No additional surface drainage will enter upon the highway.

This permit to act relates solely to the use of the State right-of-way, and is not determinative of any rights of flowage between private land owners.

A copy of this permit shall be present at the site during construction of the drive(s).

All work is to be done by the applicant at no cost to the State of New Hampshire.

This permit does not include or approve the location or installation of underground utilities.

Drive(s) shall approach the highway at or about 90 degrees.

All work to be completed in accordance with this permit and accepted by the State prior to use of the drive by the public.

A pre-construction conference will be required prior to the start of any work within the highway right-ofway. Contact the District 5 office at (603) 666-3336 at least 2 weeks prior to the anticipated start date to schedule.

All materials and structures shall conform to the current version of the NHDOT Standard Specifications for Road and Bridge Construction, as amended.

During construction within the highway right-of-way, traffic shall be maintained in accordance with MUTCD standards and as directed by the District Engineer.

A yellow centerline shall be maintained at all times as approved by the District Engineer. When temporary tape or raised pavement markers are used, they shall be removable.

This permit supercedes Driveway Permit # 099-88-2, issued on June 3, 1988.

Copies: District, Town, Patrolman MHF DESIGN CONSULTANTS INC. HUSEYIN SEVINCGIL 44 STILES ROAD, SUITE ONE SALEM, NH 03079

Approved

Assistant District Engineer
For Director of Administration

Date: 5/17/2013

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