### SFMTA - TASC SUMMARY SHEET

PreStaff_Date: 2/2/2021	Public Hearing C	consent	No objections:
Requested_by: SFMTA	<b>X</b> Public Hearing R	Regular	Item Held:
Handled: Edgar Orozco	Informational / O	ther	Other:
	PH - Regular		
Location: Kearny Street and Sutte	er Street		
Subject: Left Lane Must Turn Le	ft, Rescind Peak TOW	AWAY La	ne
PROPOSAL / REQUEST: RESCIND - TOW AWAY NO STOPPING Kearny Street, west side, from Geary Str		И	
ESTABLISH - LEFT LANE MUST TURN Kearny Street, northbound, at Sutter Stre			
ESTABLISH - RED ZONE Sutter Street, south side, from Kearny St	reet to 28 feet westerly (e:	xtends exis	ting red zone by 10 feet)
(Supervisor District 3)			
This proposal eliminates the peak TOW northbound Kearny Street. This measure			
			Sit Suloty.
BACKGROUND INFORMATION / CC *Muni routes 8 Bayshore (8 min. frequence make left turn from Kearny northbound or *Between 10/2014-10/2019, there were tw cause was associated with dual left turns *12/10/2019 traffic counts show there is a Kearny northbound onto Sutter *Synchro model shows no delay for left tu *The signal timing will be adjusted to allow	cy), 45 Union (11 min. freq nto Sutter. welve collisions (seven inv an average of seven turns urning vehicles and a 1.5 s	olving trans per signal o	sit and three involving peds) whose cycle during the PM peak hour for by for through vehicles
HEARING NOTIFICATION AND PRO	OCESSING NOTES:		MENTAL CLEARANCE BY:







# **Existing Striping**



Kearny and Sut	ter	DES	CRIP	TION:	trans	sitions	s, and	offse	ing Proj ts. Add	LPIs	xing	Kear	ny ar	cle ler nd ws=	ngth, =3.0.	splits,	
CHANGE: 2	1	NOT	ES:		Upda	ate op	peratio	on tim	es. Upo	date -	TSP s	settin	gs.	Page	e 1 of	7	
CNN #: 2	4720000	PH	ASE	S	TREE	T	Eme	rFlast	ProgF	lash	Conti	roller			2070		
ENGINEER: C	Skerrit / E. Tang		6	Su	utter V	VB		R			Cabir				G		_
Revision date: 6	/20/2019		8	Ke	arny	NB		R		- 1	Oper. I			Feb		1954	Kearny
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Date Completed:	9/28/19										Casc	ade:			n/a		and
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# PAGE 2: BASE TIMING, ACTUATION, COORDINATION SETTINGS

	Ser in	Retraction	5	Page	2 of 7	and the		5 102	6/	20/2019
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Vehicle Extension (se	Contraction of Contract of Contract						8	1 11 F	10	4
Max Green (only used for								_		
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Ped Recycle (Yes			YES		YES		YES		YES	
"WALK EXPAND" (Yes			YES		YES		YES		YES	J
	-	D	D.O.			kam				
ORDINATION (phase splits	= Max	3 + Y +	RClear	ance)						
	1-4									Offset
	Cycle									(from
Phase	length	1	2P	3	4P	5	6	7	8	page 1)
Dial 1 Splits	75		34	1.1.1.	41		34	11.1	41	3
Min Transition	69		31	1948	38		31	1912	38	31
Max Transition		Sec. St.	47	Tes Person	54	t NAV-19	47	Sell Carlos	54	
Dial 2 Splits	Contraction of the local division of the loc		29		46		29	01000	46	23
Min Transition	69		26	HERE S	43		26	14 W 10 P	43	20
Max Transition	101	-	42		59		42		43	E
Dial 3 Splits	75		28	THE OWNER OF	47	A CONTRACTOR OF	28	Pale State	47	14
Min Transition			25					all the second	-	14
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May Transition			4 1		1 (1)		41		1 00	
Max Transition Coordinated Phases	101		X				X			

Special Comments

startup all-red = 6 seconds

Solid Don't Walk for Phase 4P = 7 seconds

## Transit Collisions (1/2)

### (highlighted collisions are associated with existing lane configuration)

	is transit collision relate ARB Charge At Street			Collision With	IE_DESC	Time	Intersection	Line	Direction	Date	MTA Vehicle Action	MTA Vehicle Actior	On Street	
1	Unavoidable Sutter St	Left Sideswipe	Trolley Coach	Truck	While I was stopped at a red light a truck pulled on the left side and j=hit the mirror, one was injured and no police . Central was called and waiting for inspector	8:40 AM	Kearny St & Sutter St	30 Stockton	inbound	9/28/2016	Going Straight	Going Straight	Kearny St	On-board video shows the transi in lane #1 of 4 lanes attempted to to his right to pass the parked injuries were reported. Both driv ca
2	Avoidable Kearny St	Front	Trolley Coach	Auto/Van	I wa about to make a right turn , car infront of me suddenly stopped and I stopped but my bicycle rack was in use and just hit ot a little bit in his bumper	9:13 AM	Kearny St & Sutter St	30 Stockton	nearside	6/16/2015	Turning Left	Turning Left	Sutter St	(PREVENTABLE). On-board car collision to occur, the operator Furthermore, he violated the foll National Safety Council Guide, hu violated the CVC as
3	Avoidable Sutter St	Left Sideswipe	Trolley Coach	Auto/Van	Driving on Kearny Northbound on approach to Sutter St. Preparing to make a left turn . I proceeded to take part of the far left lane to block off (squeeze play) and as I encroached on the intersection checking my right side for vehicles trying to go around my coach to make the same left. That's when I heard and felt contact on my left side . Noticed a vehicle made contact with my coach.	9:40 AM	Kearny St & Sutter St	30 Stockton	outbound/nearside	9/21/2017	Turning Left	Turning Left	Kearny St	
4	Unavoidable Sutter St	Left Sideswipe	Trolley Coach	Auto/Van	At approximately 9:55am heading outbound on making a left turn on Kearny to Sutter both lanes number one and two ? car try to squeeze play made contact with the bus and left the scene. Hit a run. I call TMC inspector came to interview and then put me back in service.	9:55 AM	Kearny St & Sutter St	30 Stockton	outbound near side	12/8/2018	Turning Left	Turning Left	Kearny St	
5	Unavoidable Kearny St	Right Sideswipe	Trolley Coach	Auto/Van	I was driving on lane#3 slowly on Sutter St and Kearny St outbound, in the bus lane . A construction truck with a big root rack made contact to my left side mirror . Then I informed to the truck driver at the same time . I called TMC and waited for an inspector. No one was injured	9:45 AM	Kearny St & Sutter St	45 Union-Stockton	outbound/nearside	10/4/2018	Going Straight	Going Straight	Sutter St	
6	Avoidable Sutter St	Left Sideswipe	Trolley Coach	Auto/Van	While preparing to turn left onto Sutter, an Uber driver got very close to the left side of my bus , after making the turn the driver pulled into the bus zone came to the door of my bus and accused me of hitting his car . He left the scene before I could get TMC . He was driving a white Honda	10:06 AM	Kearny St & Sutter St	30 Stockton	outbound/nearside	9/2/2017	Going Straight	Going Straight	Kearny St	
7	Unavoidable Sutter St	Left Sideswipe	Trolley Coach	Auto/Van	As I merged to make left turn onto Sutter from Kearny car on left rear side moved from behind parked car at which time contact was made between her R/F fender and L/R wheel well of coach	1:06 PM	Kearny St & Sutter St	45 Union-Stockton	n outbound	4/1/2016	Turning Left	Turning Left	Kearny St	No video, collision diagram, or w the operator and Street Supervisc the driver of an automobile ma
8	Avoidable Sutter St	Left Sideswipe	Trolley Coach	Auto/Van	I was stoped at an angle on Kearny and Sutter with heavy traffic I heard sirens and fell an impact with I looked it left mirror I saw a car that had made contact with my coach. Central notified. See inspector report.	4:10 PM	Kearny St & Sutter St	30 Stockton	outbound	1/9/2017	Standing/Stopped	Standing/Stopped	Kearny St	
9	Avoidable Sutter St	Left Sideswipe	Trolley Coach	Auto/Van	Made left hand turn from Kearny to Sutter when clear to make U-turn heard a	5:50 PM	Kearny St & Sutter St	30 Stockton	outbound	6/3/2016	Going Straight	Going Straight	Kearny St	FY16-07286 DETERMINATION: PREVENT. Johnson, ID: 5186, TSS: Paul Lee, Date: 6 to right front fender of Party 2 - autom accident. Operator Johnson raveling in #1), making contact. Operator Johnson a CONTRIBUTORY CAUSE: 1) The Line Tr hazards for that location and how trainee coach and allow the coach complete the In the operator's report, Operator John turn, he heard a noise. He looked to his report, Party 2 - driver of automobile st and hit to his automobile. Operator John di di not. However, Operator Johnson d As seen in the video, Operator Johnson d As seen in the video, Operator Johnson d laready side by side next to each other. up both lanes, other vehicles would not h already there next to him and hopefull noticed the presence of Party 2 - autom Operators must be prepared to stop sho obstructions and must take necessary ac the safety of others, and the safety of ec California and the City and County of SS Involving Lane Encroachment - The Pro prevent such crashes by dropping bac
10	Unavoidable Sutter St	Angle	Trolley Coach	Truck	At about 3:37pm on Monday July 17, 2017, Run 55, on coach 5639, on the 45 line going outbound on Kearny in between post and Sutter I was stopped in traffic behind a 30 line coach putting his poles back up. While at a stopped position on lane #3 of a left turning lane a Sysco delivery truck came up on my right side on the other lane and snagged my retriever rope and bent my right pole and broke the rope. The truck did not stop and kept going straight via Kearny. Operator called TMC. Inspector arrived operator interviewed.	5:37 PM	Kearny St & Sutter St	45 Union-Stockton	outbound near side	7/17/2017	Standing/Stopped	Standing/Stopped	Kearny St	

#### NON-PREVENTABLE: Alfonzo Beasley #4686 (K.W.)-

nsit bus traveling N/B on Kearny Street towards Sutter. A large white delivery truck traveling N/B d to drive between a large truck parked on the west curb and the bus in lane #2. The truck veered ed truck, causing the right mirror of the truck to make contact with the left side bus mirror. No Irivers exchanged information at the scene and drove away on their own power. The truck driver caused this collision by MISJUDGING HIS RIGHT SIDE CLEARANCE.

camera shows the coach passed unsafely while the automobile was stopped. In allowing the cor violated the following sections of the California Vehicle Code:CVC 21070 (unsafe operation). following section of the SFMTA Rule Book: 2.9.4 (operators must be alert for hazards). Under the , he failed to maintain a safe following distance at all times(Page 13). The fact that his behavior a swell as SFMTA rules indicates, by definition, that this collision was preventable.

NON-PREVENTABLE: Monika Woodward #3409 (K.W.)-

r witness statements or photographs were available for review. This determination was based on visor's report, collision damage diagram, and my accident investigation experience. It suggest that made and unsafe lane change causing the right front bumper to make contact with the left rear wheel-well of the automobile. No injuries were reported.

NTABLE - Coach vs. Auto (Lane encroachment). RUN 396/30/5485, Location: OB Kearny & Sutter, Operator: Thomas : 6/3/16, Time: 6:00 p.m., Damage: Minor to coach body left side, lower middle access panels; minor body damage omobile, Injury: None reported. PRIMARY CAUSE: Human error. Operator initiated this squeeze play, resulted in an g in Lane #2, encroached, over the solid white line, and into the lane that Party 2 - automobile was traveling in (Lane n also failed to noticed the presence of an automobile that was already in Lane #1 prior to the start of his left turn. e Trainer Lucia Roan, ID 2357, was in position and should have instructed the trainee to be aware of the potential nees could have mitigated it. 2) If Party 2 - driver of automobile was paying attention, he could have stop behind the the turn first. My determination was based on the operator's report, the supervisor's report and the Onboard Video. ohnson stated that before he began to make a left turn, he noticed that it was clear to do so. After he began his left his left and saw an automobile "squeezed play" in to the left side of his coach and made contact. In the supervisor's e stated to Transit Supervisor Sonny Lee that he's not sure how this happened, but he thinks the coach leaned over hnson stated to the supervisor that this is one of those locations / turns where he had to take up both lanes, which n did say that he did not see Party 2 - automobile until he after he, heard some noise towards the back of his coach. son was traveling in Lane #2, and Party 2 - automobile was traveling in Lane #1 (left most lane). Both vehicles were r. What the video first showed was the operator did not properly set up his coach for the left turn. He did not take r failed to scan his mirror for hazard and / or other vehicles in the other lane. Had the operator properly taken up have had the opportunity to do any squeeze play. Had Operator Johnson looked, he would had seen Party 2 was fully, he would not have encroached over the solid white line separating the lanes. Operator Johnson should have pmobile prior to turning left. Violation of SFMTA Rules and Instructions: 2.13.1 A. INATTENTION TO DUTIES. 4.22.2 short of any person, object, or obstruction, within range of their vision. 2.9.4 Operators must be alert for hazards or y action to avoid them, regardless of mode of operation. 2.21.16 Employees must protect their own personal safety, equipment and property. 2.14.1 Employees must comply with the laws, ordinances, and regulations of the state of of San Francisco. A Guide to Determining Motor Vehicle Accident Preventability - National Safety Council: Collisions rofessional Driver must avoid squeeze plays causing crashes with cars, pillars, and other road structures. They can back when another driver forces the issue or contests a common portion or the road. A blind spot is never a valid excuse for lane-encroachment crashes.

#### NON-PREVENTABLE: Alejandro Porcuna #2385 (K.W.)

ansit bus stopped/standing preparing to make a left turn from Lane #3 of 3 lanes on Kearny onto an be seen traveling N/B on Kearny in Lane #2 of 3 lanes trying to squeeze between lanes #2 and tomobile makes contact with the rear doors of the transit bus right rear side. No injuries were he automobile caused this accident to occur by making an unsafe lane change.

# Transit Collisions (2/2)

12	Unavoidable Kearny St Left Sideswipe	Trolley Coach	Auto/Van	Merging lanes to make a left onto Sutter from Kearny a white vehicle was approaching on the left. I came to a complete stop and the vehicle continued to move forward Squeezing itself through the left lane making contact with the coach. The vehicle proceeded straight and I made the left onto Sutter. TMC notified Hit and Run.		30 Stockton	outbound/midblock 6/28/2018	Going Straight	Going Straight	Sutter St
13	Avoidable Sutter St Left Sideswipe	Trolley Coach	Truck	As I was approaching Sutter St I was merging into my left lane when I crossed Post St, my left turn signal was on. P assed the fedex truck on my left side and covering my brakes while merging safely when the fedex truck tried to squeeze in to my lane. I slowed down and stopped when I seen he was close then the fedex truck right mirror made contact with the coach. My lane trainer Ms. Annie Washington told me not to move and secure the coach. She then called TMC and report what happened everyone on board was ok and the fedex driver was ok. The inspector came and instructed us to move the coach to a safe location.	12:07 PM Kearny St & Sutter St	30 Stockton	outbound 11/7/2018	Going Straight	Going Straight	Kearny St
14	Avoidable Sutter St Left Sideswipe	Trolley Coach	Auto/Van	Making wide left turn on Sutter st OB look to my left side a black Chrysler (7UAT166) ? to pass me from the left (no room) I am in the middle my left run (his right bumper got hookt on my right rim tire he try to move back and forward. I did not move at all I called TMC. PD unit 3A15E. Inspector arrive and investigate. No damage in my coach expt som dust from his bumper.	10:59 PM Kearny St & Sutter St	30 Stockton	outbound 6/18/2018	Going Straight	Going Straight	Kearny St

### **TransBASE Internal Dashboard**

Geographic Extent: 24720000: SUTTER ST at KEARNY ST Spatial Intersect: SFMTA Intersection Related (<=20ft or <=150ft if Rear End) Data Range: 10/01/2014 to 10/01/2019 Pull Date: 1/27/2021 Non-Transit Collisions (1/2)

### **Geographic Extent**



### **TransBASE Internal Dashboard**

Geographic Extent: 24720000: SUTTER ST at KEARNY ST Spatial Intersect: SFMTA Intersection Related (<=20ft or <=150ft if Rear End) Data Range: 10/01/2014 to 10/01/2019 Pull Date: 1/27/2021

Collision/Party/Victim Table Showing 1 to 7 of 7 entries Non-Transit Collisions (2/2) (highlighted collisions are associated with existing lane configuration)

#### Count of Fatal Collisions: 0 Count of Non-Fatal Injury Collisions: 7 Total Count of Fatal/Non-Fatal Injury Collisions: 7

Case ID	Collision Date	Collision Time	Day of Week	Primary Road	Secondary Road	Distance	Direction	Party 1 Type	Party 1 Direction of Travel	Party 1 Movement Preceeding Crash	Party 2 Type	Party 2 Direction of Travel	Party 2 Movement Preceeding Crash	Vehicle Code Violation	Highest Degree of Injury	Type of Collision	Motor Vehicle Involved With	Weather	Lighting
180194048	03/14/2018	12:19	Wednesday	KEARNY ST	SUTTER ST	0	Not Stated	Driver	North	Proceeding Straight	Driver	West	Making Left Turn	CVC 22107	Injury (Other Visible)	Sideswipe	Other Motor Vehicle	Clear	Daylight
170409982	05/18/2017	22:40	Thursday	SUTTER ST	KEARNY ST	0	Not Stated	Driver	North	Proceeding Straight	Driver	West	Proceeding Straight	CVC 21453(a)	Injury (Complaint of Pain)	Broadside	Motor Vehicle on Other Roadway	Clear	Dark - Street Lights
170108736	02/07/2017	22:30	Tuesday	KEARNY ST	SUTTER ST	0	Not Stated	Driver	Not Stated	Making Left Turn	Pedestrian	South	Proceeding Straight	CVC 21950(a)	Injury (Severe)	Vehicle/ Pedestrian	Pedestrian	Raining	Dark - Street Lights
170088332	02/01/2017	06:14	Wednesday	KEARNY ST	SUTTER ST	0	Not Stated	Driver	North	Making Right Turn	Pedestrian	East	Proceeding Straight	CVC 21950(a)	Injury (Severe)	Vehicle/ Pedestrian	Pedestrian	Clear	Dark - Street Lights
160694820	08/27/2016	14:45	Saturday	SUTTER ST	KEARNY ST	0	Not Stated	Driver	West	Making Left Turn	Pedestrian	Not Stated	Other	CVC Unknown	Injury (Complaint of Pain)	Vehicle/ Pedestrian	Pedestrian	Clear	Daylight
151088923	12/17/2015	16:56	Thursday	SUTTER ST	KEARNY ST	16	West	Pedestrian	South	Proceeding Straight	Driver	West	Making Left Turn	CVC 21456(b)	Injury (Complaint of Pain)	Vehicle/ Pedestrian	Pedestrian	Clear	Dark - Street Lights
150910335	10/18/2015	02:04	Sunday	SUTTER ST	KEARNY ST	0	Not Stated	Driver	North	Proceeding Straight	Driver	East	Proceeding Straight	CVC 22350	Injury (Other Visible)	Broadside	Other Motor Vehicle	Clear	Dark - Street Lights

#### Kearny and Sutter LT Observations

Observer	Edgar Orozco, Colin Laure	ence		
Date	12/10/2019	_		
Time	8-9a	_		
Weather	Slight Overcast	_		
		AM		
	Observ	ver #1		Observer #2
Cuela	# 1 To fue we #4 low o	# 1 To from #2 long	#LTs during	
Cycle	# LTs from #1 lane	# LTs from #2 lane	ped phase	#LTs queued in #1 lane
1	3	6	2	0

Cycle	# LTs from #1 lane	# LTs from #2 lane	ped phase	#LTs queued in #1 lane
1	3	6	2	0
2	2	5	3	1
3	3	4	2	2
4	3	3	5	0
5	1	1	2	0
6	5	3	6	0
7	2	3	5	0
8	5	2	4	0
9	5	3	4	0
10	3	2	3	0
11	1	3	2	1
12	2	2	0	1
13	4	8	8	0
14	3	4	4	0
15	3	6	4	0
16 17	4	3	3	0 0
17	4	1	3	0
19	3	3	3	2
20	4	6	3	0
21	5	4	3	0
22	3	5	5	0
23	5	3	4	0
24	4	3	1	0
25	4	3	0	0
26	5	3	5	0
27	6	6	4	1
28	6	2	2	0
29	4	2	3	0
30	2	2	3	0
31	2	4	3	1
32	3	2	1	1
33	6	4	2	2
34	3	3	6	1
35	2	3	2	0
36	6	7	6	0
37	4	6	3	0
38	3	4	3	1
39	_	Ĵ	2	
40 41	4	4	2	0
41	5	3	2	0
42	2	5	2	2
43	1	6	4	1
45	2	5	2	0
46	4	4	2	1
47	5	1	6	2
48	4	2	3	2
Mean	3.4	3.8	3.3	0.5
1 Hour Total	165	182	159	N/A
Grand Total	347	,		

#### Kearny and Sutter LT Observations

Observer	Edgar Orozco, Colin Laurence
Date	12/4/2019
Time	5-6p
Weather	Overcast, Dusk

Weather	Overcast, Dusk	PM		
	Observe			Observer #2
Cycle	# LTs from #1 lane	# LTs from #2 lane	#LTs during	#LTs queued in #1 lane
1	4	1		0
2	5	1	3	1
3	2	2		0
4	1	4		0
6	4	2 5		1
7	3	3		0
8	5	2		0
9	0	5		1
10	4	3		0
11	2	3	2	0
12	0	2	1	1
13	0	4	4	0
14	5	2		1
15	2	4		0
16	3	3		2
17	3	2 5		1
18 19	4	3	4	1
20	5	5		0
20	3	5		2
22	3	4		0
23	3	5		0
24	5	0		1
25	4	6	1	0
26	6	4	3	1
27	3	2		0
28	4	4		0
29	4	4		1
30	2	4		2
31 32	4	3	6 1	1
33	6	5		1
34	4	4		2
35	6	5		4
36	1	4		1
37	4	2	1	1
38	4	4	5	1
39	2	3		1
40	6	3		3
41	1	3		1
42	2	4		4
43	6	5		2
44 45	5	4		1
45	5	3		1
40	4	5	5	1
48	7	5	2	0
Mean	3.5	3.5		0.9
1 hr Total	167	169	129	N/A
Grand Total	336	j		

## Existing Meter Drawing



NO.		REVIS	ION DES	SCRIPTIC	N	BY	DATE	DIR/RES											SAN FRA	NCISCO MUNICIPAL TRAN	ISPORTAT	TION AGENCY
1	Per f	ield- co	onverted	to CA	D.dwg	JB	11/20/12													NCISCO MUNICIPAL TRAN CITY AND COUNTY OF SA Parking meter spa	N FRANCI	ISCO
All the second s	Per F	Field:Cha	nge (9)	MS-R	eino.#1,3	5 JB	2/21/15												10 IN 15 + 0 35 1	PARKING METER SPA	ACES	
a Poi (Ca0)/Area	TOW-	AWAY	METE	R CT.	(	Gene	ERAL		LO	ADI	١G		MET	ERE	) SF	PACE	S			Y ST. (KEA, 520	)	
SIDE	АМ	PM	SS	MS	GMP	МС	TIMES	DAYS	ML	MTL	6-W	15 MIN	30 MIN	1 HR	2 HR	10 HR		TOTAL		NIT) BLOCK ers # 520-00XXY		AREA
ODD	7A-9A	3P-7P		2			7A-6P	M-SA	9					9				9	GEARY	ST. TO POST ST.		1
EVEN	*	*																	<sup>SCALE:</sup> 1"=40'	DATE: 11/20/12	<sup>BY:</sup> JB	

### **Existing Meter Drawing**

NO.

2

SIDE

ODD

EVEN

AM

\*



1"=40'

11/19/12

JB



# Existing Synchro Outputs

	≯		~	4	-		•	<b>†</b>	1	5	1	1
	-	-	•			-		-	•		*	
ane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
ane Configurations					<u>ተተ</u> ጮ		ኸ_	र्ना				
Traffic Volume (vph)	0	0	0	0	332	116	292	996	0	0	0	(
Future Volume (vph)	0	0	0	0	332	116	292	996	0	0	0	(
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
ane Util. Factor	1.00	1.00	1.00	1.00	0.91	0.91	0.81	0.81	1.00	1.00	1.00	1.00
Ped Bike Factor					0.86		0.46	0.97				
-rt					0.961							
It Protected							0.950	0.997				
Satd. Flow (prot)	0	0	0	0	3653	0	1247	5120	0	0	0	(
It Permitted							0.950	0.997				
Satd. Flow (perm)	0	0	0	0	3653	0	574	4953	0	0	0	(
Right Turn on Red			Yes			Yes	Yes		Yes			Ye
Satd. Flow (RTOR)					105		194	95				
ink Speed (mph)		25			25			25			25	
ink Distance (ft)		468			447			362			330	
ravel Time (s)		12.8			12.2			9.9			9.0	
Confl. Peds. (#/hr)				848		867	1391		1383			
Confl. Bikes (#/hr)						30			10			
Peak Hour 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
Bus Blockages (#/hr)	0	0	0	0	0	0	0	22	0	0	0	(
Parking (#/hr)	0	0	0							0	0	(
Adj. Flow (vph)	0	0	0	0	332	116	292	996	0	0	0	(
Shared Lane Traffic (%)		-	-	-			22%		-	-	-	
ane Group Flow (vph)	0	0	0	0	448	0	228	1060	0	0	0	(
Turn Type	Ŭ	Ű	· ·	Ű	NA	Ŭ	Perm	NA	Ű	v	Ű	
Protected Phases					6			8				
Permitted Phases					v		8	Ű				
/inimum Split (s)					18.0		15.0	15.0				
Total Split (s)					24.0		43.0	43.0				
Total Split (%)					32.0%		57.3%	57.3%				
fellow Time (s)					4.0		4.0	4.0				
All-Red Time (s)					1.5		1.5	1.5				
ost Time Adjust (s)					0.0		0.0	0.0				
Total Lost Time (s)					5.5		5.5	5.5				
.ead/Lag					Lag		Lag	Lag				
.ead-Lag Optimize?					Lay		Lay	Lay				
Act Effct Green (s)					18.5		37.5	37.5				
Actuated g/C Ratio					0.25		0.50	0.50				
/c Ratio					0.25		0.50	0.30				
Control Delay					9.5		8.8	1.5				
Queue Delay					9.0		0.0	0.0				
Total Delay					9.5		8.8	1.5				
.OS					9.5 A		0.0 A	1.5 A				
					9.5		A	A 2.8				
Approach Delay												
Approach LOS					A 41		1.4	A				
Queue Length 50th (ft)							14	6				
Queue Length 95th (ft) nternal Link Dist (ft)		388			69		m101	9 282			250	
		.,00			367							

Existing - PM peak

Synchro 10 Report Page 1

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Base Capacity (vph)					980		384	2524				
Starvation Cap Reductn					0		0	0				
Spillback Cap Reductn					0		0	0				
Storage Cap Reductn					0		0	0				
Reduced v/c Ratio					0.46		0.59	0.42				
Intersection Summary												
Area Type:	CBD											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 14 (19%), Reference	d to phase	5:Hold, S	Start of Gr	een								
Natural Cycle: 60												
Control Type: Pretimed												
Maximum v/c Ratio: 0.59												
Intersection Signal Delay: 4.5		In	tersectior	LOS: A								
Intersection Capacity Utilization 69.5%		IC	U Level of	of Service	С							
Analysis Period (min) 15												
Description: Change 20												



Existing - PM peak

Synchro 10 Report Page 3

# **Proposed Synchro Outputs**

	≯	+	1	1	ŧ		•	<b>†</b>	1	1	Ţ	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	LDL		LDIX	TTDL	<b>*††}</b>	WDIX	5	444	NDIX	ODL	001	001
Traffic Volume (vph)	0	0	0	0	332	116	292	996	0	0	0	0
Future Volume (vph)	0	0	0	0	332	116	292	996	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	0.91	0.91	1.00	0.91	1.00	1.00	1.00	1.00
Ped Bike Factor	1.00	1.00	1.00	1.00	0.86	0.91	0.46	0.91	1.00	1.00	1.00	1.00
Frt					0.961		0.40					
Fit Protected					0.001		0.950					
Satd. Flow (prot)	0	0	0	0	3653	0	1540	4294	0	0	0	0
Flt Permitted	0	0	0	0	3033	0	0.950	4234	0	0	0	0
Satd. Flow (perm)	0	0	0	0	3653	0	708	4294	0	0	0	0
Right Turn on Red	J	U	Yes	0	3033	Yes	Yes	4204	Yes	0	U	Yes
Satd. Flow (RTOR)			100		105	100	194		100			188
Link Speed (mph)		25			25		104	25			25	
Link Distance (ft)		468			447			362			330	
Travel Time (s)		12.8			12.2			9.9			9.0	
Confl. Peds. (#/hr)		12.0		848	12.2	867	1391	9.9	1383		5.0	
Confl. Bikes (#/hr)				040		30	1551		10			
Peak Hour 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
Bus Blockages (#/hr)	0	0	0	1.00	1.00	0	1.00	22	0	0	0	1.00
Parking (#/hr)	0	0	0	0	0	0	0	22	0	0	0	0
Adj. Flow (vph)	0	0	0	0	332	116	292	996	0	0	0	0
Shared Lane Traffic (%)	U	0	0	0	332	110	292	990	0	0	0	U
ane Group Flow (vph)	0	0	0	0	448	0	292	996	0	0	0	0
Furn Type	0	0	0	0	NA	0	Perm	NA	0	0	0	U
Protected Phases					6		I CIIII	8				
Permitted Phases					0		8	0				
Vinimum Split (s)					18.0		15.0	15.0				
Fotal Split (s)					24.0		43.0	43.0				
Fotal Split (%)					32.0%		57.3%	57.3%				
fellow Time (s)					4.0		4.0	4.0				
All-Red Time (s)					4.0		4.0	4.0				
Lost Time Adjust (s)					0.0		0.0	0.0				
Total Lost Time (s)					5.5		5.5	5.5				
_ead/Lag					Lag		Lag	Lag				
_ead-Lag Optimize?					Lay		Lay	Lay				
Act Effct Green (s)					18.5		37.5	37.5				
Actuated g/C Ratio					0.25		0.50	0.50				
//c Ratio					0.25		0.65	0.30				
Control Delay					9.5		8.9	2.9				
Queue Delay					0.0		0.0	0.0				
Fotal Delay					9.5		8.9	2.9				
OS					9.5 A		0.9 A	2.9 A				
Approach Delay					9.5		A	4.3				
Approach LOS					9.5 A			4.3 A				
Queue Length 50th (ft)					41		18	18				
					69		m86	m22				
Queue Length 95th (ft)		388			367		11100	282			250	
nternal Link Dist (ft) Furn Bay Length (ft)		300			30/			282			250	

Proposed - PM peak

Synchro 10 Report Page 1

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Base Capacity (vph)					980		451	2147				
Starvation Cap Reductn					0		0	0				
Spillback Cap Reductn					0		0	0				
Storage Cap Reductn					0		0	0				
Reduced v/c Ratio					0.46		0.65	0.46				
ntersection Summary												
Area Type: 0	CBD											
Cycle Length: 75												
Actuated Cycle Length: 75												
Offset: 14 (19%), Reference	d to phase	5:Hold, S	start of Gr	een								
Natural Cycle: 60												
Control Type: Pretimed												
Maximum v/c Ratio: 0.65												
Intersection Signal Delay: 5.6		In	tersectior	LOS: A								
Intersection Capacity Utilization 78.0%		IC	U Level o	of Service	D							
Analysis Period (min) 15												
Description: Change 20												



Proposed - PM peak

Synchro 10 Report Page 3