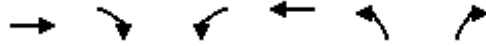


# Lanes, Volumes, Timings

## 2: Rua Francisco Luigi Picarelli & Av. Salvador Markowicz

05/07/2016



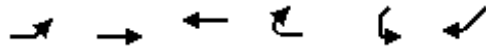
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Volume (vph)	179	137	468	47	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.935					
Flt Protected				0.956		
Satd. Flow (prot)	1750	0	0	1781	0	0
Flt Permitted				0.956		
Satd. Flow (perm)	1750	0	0	1781	0	0
Link Speed (k/h)	40			40	40	
Link Distance (m)	126.2			38.9	76.1	
Travel Time (s)	11.4			3.5	6.8	
Peak Hour Factor	0.86	0.71	0.78	0.92	0.92	0.92
Heavy Vehicles (%)	2%	1%	2%	2%	2%	2%
Adj. Flow (vph)	208	193	600	51	0	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	401	0	0	651	0	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	0.0			0.0	0.0	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	15		25	25		15
Sign Control	Free			Free	Stop	

### Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	52.9%
ICU Level of Service	A
Analysis Period (min)	15

Lanes, Volumes, Timings

3: Av. Salvador Marcovicz/Av. Salvador Markowicz & Rua Francisco da Silva Leme 05/07/2016



Lane Group	EBL	EBT	WBT	WBR	SWL	SWR
Lane Configurations						
Volume (vph)	198	286	411	52	146	52
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.986		0.957	
Flt Protected		0.980			0.967	
Satd. Flow (prot)	0	1825	1853	0	1702	0
Flt Permitted		0.980			0.967	
Satd. Flow (perm)	0	1825	1853	0	1702	0
Link Speed (k/h)		40	40		40	
Link Distance (m)		31.9	355.7		41.9	
Travel Time (s)		2.9	32.0		3.8	
Peak Hour Factor	0.77	0.77	0.68	0.77	0.87	0.66
Heavy Vehicles (%)	2%	2%	1%	2%	3%	4%
Adj. Flow (vph)	257	371	604	68	168	79
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	628	672	0	247	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane		Yes	Yes			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	72.1%
ICU Level of Service	C
Analysis Period (min)	15

Lanes, Volumes, Timings

5: Rua Franciso da Silva Leme/HUSF & Rua Alexandre Simoni & Av. São Francisco de Assis

05/07/2016



Lane Group	EBR	WBL	WBT	WBR	WBR2	NEL2	NEL	NET	SWT	SWR	SWR2
Lane Configurations											
Volume (vph)	6	103	124	52	68	8	28	52	52	3	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
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
Frt	0.865		0.955						0.984		
Flt Protected			0.988					0.980			
Satd. Flow (prot)	1275	0	1480	0	0	0	0	1582	1870	0	0
Flt Permitted			0.988					0.980			
Satd. Flow (perm)	1275	0	1480	0	0	0	0	1582	1870	0	0
Link Speed (k/h)			40					40	40		
Link Distance (m)			151.3					225.3	37.2		
Travel Time (s)			13.6					20.3	3.3		
Peak Hour Factor	0.58	0.88	0.61	0.76	0.73	0.55	0.79	0.74	0.45	0.38	0.38
Heavy Vehicles (%)	16%	0%	21%	1%	0%	38%	0%	2%	0%	0%	0%
Parking (#/hr)	0		0					0			
Adj. Flow (vph)	10	117	203	68	93	15	35	70	116	8	8
Shared Lane Traffic (%)											
Lane Group Flow (vph)	10	0	481	0	0	0	0	120	132	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Right	Left	Left	Right	Right	Left	Left	Left	Left	Right	Right
Median Width(m)			0.0					0.0	0.0		
Link Offset(m)			0.0					0.0	0.0		
Crosswalk Width(m)			4.8					4.8	4.8		
Two way Left Turn Lane											
Headway Factor	1.14	1.00	1.14	1.00	1.00	1.00	1.00	1.14	1.00	1.00	1.00
Turning Speed (k/h)	15	25		15	15	25	25			15	15
Sign Control			Free					Stop	Stop		

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	37.6%
ICU Level of Service	A
Analysis Period (min)	15

Lanes, Volumes, Timings  
 6: Rua Franciso da Silva Leme & Rua Teixeira

05/07/2016



Lane Group	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations						
Volume (vph)	0	0	132	118	66	198
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.938			
Flt Protected						0.986
Satd. Flow (prot)	0	0	1738	0	0	1824
Flt Permitted						0.986
Satd. Flow (perm)	0	0	1738	0	0	1824
Link Speed (k/h)	40		40			40
Link Distance (m)	328.9		41.9			225.3
Travel Time (s)	29.6		3.8			20.3
Peak Hour Factor	0.92	0.92	0.73	0.77	0.71	0.87
Heavy Vehicles (%)	2%	2%	3%	2%	2%	3%
Adj. Flow (vph)	0	0	181	153	93	228
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	334	0	0	321
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	0.0		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

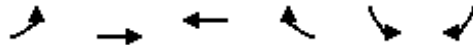
Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	34.9%
Analysis Period (min)	15
	ICU Level of Service A

Lanes, Volumes, Timings

12: Av. Salvador Markowicz & Rua José Nóbrega Oliveira

05/07/2016



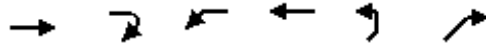
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↕		↕	
Volume (vph)	4	175	415	44	57	100
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.987		0.919	
Flt Protected		0.998			0.980	
Satd. Flow (prot)	0	1826	1835	0	1476	0
Flt Permitted		0.998			0.980	
Satd. Flow (perm)	0	1826	1835	0	1476	0
Link Speed (k/h)		40	40		40	
Link Distance (m)		38.9	173.7		104.0	
Travel Time (s)		3.5	15.6		9.4	
Peak Hour Factor	0.50	0.86	0.79	0.80	0.67	0.78
Heavy Vehicles (%)	50%	2%	2%	4%	37%	2%
Adj. Flow (vph)	8	203	525	55	85	128
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	211	580	0	213	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	40.5%
Analysis Period (min)	15
	ICU Level of Service A

Lanes, Volumes, Timings

16: Rua Franciso da Silva Leme & Av. Salvador Markowicz/Av. Salvador Marcovicz 05/07/2016



Lane Group	EBT	EBR	WBL	WBT	NEL	NER
Lane Configurations	↑			↑	↘	↘
Volume (vph)	329	0	0	463	128	155
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.927	
Flt Protected					0.978	
Satd. Flow (prot)	1881	0	0	1863	1630	0
Flt Permitted					0.978	
Satd. Flow (perm)	1881	0	0	1863	1630	0
Link Speed (k/h)	40			40	40	
Link Distance (m)	173.7			31.9	227.4	
Travel Time (s)	15.6			2.9	20.5	
Peak Hour Factor	0.77	0.92	0.92	0.73	0.73	0.75
Heavy Vehicles (%)	1%	2%	2%	2%	3%	8%
Adj. Flow (vph)	427	0	0	634	175	207
Shared Lane Traffic (%)						
Lane Group Flow (vph)	427	0	0	634	382	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	0.0			0.0	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane				Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	47.6%
Analysis Period (min)	15
	ICU Level of Service A

# Lanes, Volumes, Timings

## 2: Rua Francisco Luigi Picarelli & Av. Salvador Markowicz

05/07/2016



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Volume (vph)	194	123	239	238	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.932					
Flt Protected				0.977		
Satd. Flow (prot)	1753	0	0	1831	0	0
Flt Permitted				0.977		
Satd. Flow (perm)	1753	0	0	1831	0	0
Link Speed (k/h)	40			40	40	
Link Distance (m)	126.2			38.9	76.1	
Travel Time (s)	11.4			3.5	6.8	
Peak Hour Factor	0.75	0.47	0.89	0.78	0.92	0.92
Heavy Vehicles (%)	0%	2%	3%	0%	2%	2%
Adj. Flow (vph)	259	262	269	305	0	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	521	0	0	574	0	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	0.0			0.0	0.0	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	15		25	25		15
Sign Control	Free			Free	Stop	

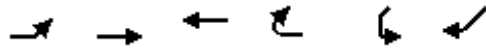
### Intersection Summary

Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	50.1%			ICU Level of Service A		
Analysis Period (min)	15					

Lanes, Volumes, Timings

3: Av. Salvador Markowicz & Rua Franciso da Silva Leme

05/07/2016



Lane Group	EBL	EBT	WBT	WBR	SWL	SWR
Lane Configurations						
Volume (vph)	262	320	297	89	194	73
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.967		0.960	
Flt Protected		0.976			0.966	
Satd. Flow (prot)	0	1774	1837	0	1757	0
Flt Permitted		0.976			0.966	
Satd. Flow (perm)	0	1774	1837	0	1757	0
Link Speed (k/h)		40	40		40	
Link Distance (m)		30.8	355.7		41.9	
Travel Time (s)		2.8	32.0		3.8	
Peak Hour Factor	0.67	0.80	0.92	0.86	0.90	0.80
Heavy Vehicles (%)	3%	6%	0%	0%	0%	1%
Adj. Flow (vph)	391	400	323	103	216	91
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	791	426	0	307	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane		Yes	Yes			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	77.6%
ICU Level of Service	D
Analysis Period (min)	15



Lanes, Volumes, Timings

5: Rua Franciso da Silva Leme/HUSF & Rua Alexandre Simoni & Av. São Francisco de Assis

05/07/2016



Lane Group	EBR	WBL	WBT	WBR	WBR2	NEL2	NEL	NET	SWT	SWR
Lane Configurations										
Volume (vph)	10	148	110	51	13	29	27	23	63	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.865		0.974						0.990	
Flt Protected			0.978					0.965		
Satd. Flow (prot)	1479	0	1508	0	0	0	0	1495	1881	0
Flt Permitted			0.978					0.965		
Satd. Flow (perm)	1479	0	1508	0	0	0	0	1495	1881	0
Link Speed (k/h)			40					40	40	
Link Distance (m)			151.3					225.3	37.2	
Travel Time (s)			13.6					20.3	3.3	
Peak Hour Factor	0.63	0.80	0.74	0.79	0.81	0.57	0.81	0.72	0.63	0.38
Heavy Vehicles (%)	0%	1%	21%	0%	0%	21%	4%	0%	0%	0%
Parking (#/hr)	0		0					0		
Adj. Flow (vph)	16	185	149	65	16	51	33	32	100	8
Shared Lane Traffic (%)										
Lane Group Flow (vph)	16	0	415	0	0	0	0	116	108	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Right	Left	Left	Right	Right	Left	Left	Left	Left	Right
Median Width(m)			0.0					0.0	0.0	
Link Offset(m)			0.0					0.0	0.0	
Crosswalk Width(m)			4.8					4.8	4.8	
Two way Left Turn Lane										
Headway Factor	1.14	1.00	1.14	1.00	1.00	1.00	1.00	1.14	1.00	1.00
Turning Speed (k/h)	15	25		15	15	25	25			15
Sign Control			Free					Stop	Stop	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	35.5%
ICU Level of Service	A
Analysis Period (min)	15

Lanes, Volumes, Timings  
 6: Rua Franciso da Silva Leme & Rua Teixeira

05/07/2016



Lane Group	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations						
Volume (vph)	0	0	165	186	69	267
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.925			
Flt Protected						0.988
Satd. Flow (prot)	0	0	1734	0	0	1863
Flt Permitted						0.988
Satd. Flow (perm)	0	0	1734	0	0	1863
Link Speed (k/h)	40		40			40
Link Distance (m)	328.9		41.9			225.3
Travel Time (s)	29.6		3.8			20.3
Peak Hour Factor	0.92	0.92	0.86	0.77	0.72	0.87
Heavy Vehicles (%)	2%	2%	3%	0%	0%	1%
Adj. Flow (vph)	0	0	192	242	96	307
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	434	0	0	403
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	0.0		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

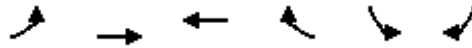
Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	44.6%
Analysis Period (min)	15
	ICU Level of Service A

Lanes, Volumes, Timings

12: Av. Salvador Markowicz & Rua José Nóbrega Oliveira

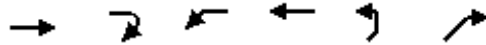
05/07/2016



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↔		↙	
Volume (vph)	6	188	358	57	87	119
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.977		0.916	
Flt Protected		0.999			0.981	
Satd. Flow (prot)	0	1898	1856	0	1576	0
Flt Permitted		0.999			0.981	
Satd. Flow (perm)	0	1898	1856	0	1576	0
Link Speed (k/h)		40	40		40	
Link Distance (m)		38.9	174.8		104.0	
Travel Time (s)		3.5	15.7		9.4	
Peak Hour Factor	0.75	0.47	0.89	0.70	0.76	0.64
Heavy Vehicles (%)	0%	0%	0%	0%	17%	3%
Adj. Flow (vph)	8	400	402	81	114	186
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	408	483	0	300	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary

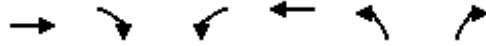
Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	41.1%
ICU Level of Service	A
Analysis Period (min)	15



Lane Group	EBT	EBR	WBL	WBT	NEL	NER
Lane Configurations	↑			↑	↘	↘
Volume (vph)	343	0	0	370	67	239
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.897	
Flt Protected					0.988	
Satd. Flow (prot)	1792	0	0	1881	1639	0
Flt Permitted					0.988	
Satd. Flow (perm)	1792	0	0	1881	1639	0
Link Speed (k/h)	40			40	40	
Link Distance (m)	174.8			30.8	227.4	
Travel Time (s)	15.7			2.8	20.5	
Peak Hour Factor	0.74	0.92	0.92	0.92	0.72	0.80
Heavy Vehicles (%)	6%	2%	2%	1%	2%	3%
Adj. Flow (vph)	464	0	0	402	93	299
Shared Lane Traffic (%)						
Lane Group Flow (vph)	464	0	0	402	392	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	0.0			0.0	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane				Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	44.6%
Analysis Period (min)	15
	ICU Level of Service A



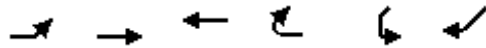
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Volume (vph)	179	137	589	47	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.935					
Flt Protected				0.956		
Satd. Flow (prot)	1750	0	0	1781	0	0
Flt Permitted				0.956		
Satd. Flow (perm)	1750	0	0	1781	0	0
Link Speed (k/h)	40			40	40	
Link Distance (m)	126.2			38.9	76.1	
Travel Time (s)	11.4			3.5	6.8	
Peak Hour Factor	0.86	0.71	0.78	0.92	0.92	0.92
Growth Factor	122%	122%	100%	122%	122%	122%
Heavy Vehicles (%)	2%	1%	2%	2%	2%	2%
Adj. Flow (vph)	254	235	755	62	0	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	489	0	0	817	0	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	0.0			0.0	0.0	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	15		25	25		15
Sign Control	Free			Free	Stop	

**Intersection Summary**

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	64.0%
ICU Level of Service	C
Analysis Period (min)	15

Lanes, Volumes, Timings

3: Av. Salvador Marcovicz/Av. Salvador Markowicz & Rua Francisco da Silva Leme 05/07/2016



Lane Group	EBL	EBT	WBT	WBR	SWL	SWR
Lane Configurations		↕	↕		↕	
Volume (vph)	257	286	411	52	146	82
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.986		0.949	
Flt Protected		0.979			0.970	
Satd. Flow (prot)	0	1824	1853	0	1692	0
Flt Permitted		0.979			0.970	
Satd. Flow (perm)	0	1824	1853	0	1692	0
Link Speed (k/h)		40	40		40	
Link Distance (m)		31.9	355.7		41.9	
Travel Time (s)		2.9	32.0		3.8	
Peak Hour Factor	0.77	0.77	0.68	0.77	0.87	0.66
Growth Factor	100%	122%	122%	122%	122%	100%
Heavy Vehicles (%)	2%	2%	1%	2%	3%	4%
Adj. Flow (vph)	334	453	737	82	205	124
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	787	819	0	329	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane		Yes	Yes			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	87.7%
ICU Level of Service	E
Analysis Period (min)	15

Lanes, Volumes, Timings

5: Rua Franciso da Silva Leme/HUSF & Rua Alexandre Simoni & Av. São Francisco de Assis

05/07/2016



Lane Group	EBR	WBL	WBT	WBR	WBR2	NEL2	NEL	NET	SWT	SWR	SWR2
Lane Configurations											
Volume (vph)	6	140	124	52	68	8	28	52	52	3	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
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
Frt	0.865		0.956						0.983		
Flt Protected			0.987					0.980			
Satd. Flow (prot)	1275	0	1484	0	0	0	0	1584	1868	0	0
Flt Permitted			0.987					0.980			
Satd. Flow (perm)	1275	0	1484	0	0	0	0	1584	1868	0	0
Link Speed (k/h)			40					40	40		
Link Distance (m)			151.3					225.3	37.2		
Travel Time (s)			13.6					20.3	3.3		
Peak Hour Factor	0.58	0.88	0.61	0.76	0.73	0.55	0.79	0.74	0.45	0.38	0.38
Growth Factor	122%	100%	122%	122%	122%	122%	122%	122%	122%	122%	122%
Heavy Vehicles (%)	16%	0%	21%	1%	0%	38%	0%	2%	0%	0%	0%
Parking (#/hr)	0		0					0			
Adj. Flow (vph)	13	159	248	83	114	18	43	86	141	10	10
Shared Lane Traffic (%)											
Lane Group Flow (vph)	13	0	604	0	0	0	0	147	161	0	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Right	Left	Left	Right	Right	Left	Left	Left	Left	Right	Right
Median Width(m)			0.0					0.0	0.0		
Link Offset(m)			0.0					0.0	0.0		
Crosswalk Width(m)			4.8					4.8	4.8		
Two way Left Turn Lane											
Headway Factor	1.14	1.00	1.14	1.00	1.00	1.00	1.00	1.14	1.00	1.00	1.00
Turning Speed (k/h)	15	25		15	15	25	25			15	15
Sign Control			Free					Stop	Stop		

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	43.7%
ICU Level of Service	A
Analysis Period (min)	15

Lanes, Volumes, Timings  
6: Rua Franciso da Silva Leme & Rua Teixeira

05/07/2016

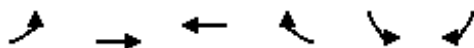


Lane Group	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations						
Volume (vph)	0	0	167	153	107	278
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.937			
Flt Protected						0.984
Satd. Flow (prot)	0	0	1736	0	0	1821
Flt Permitted						0.984
Satd. Flow (perm)	0	0	1736	0	0	1821
Link Speed (k/h)	40		40			40
Link Distance (m)	328.9		41.9			225.3
Travel Time (s)	29.6		3.8			20.3
Peak Hour Factor	0.92	0.92	0.73	0.77	0.71	0.87
Growth Factor	122%	122%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	3%	2%	2%	3%
Adj. Flow (vph)	0	0	229	199	151	320
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	428	0	0	471
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	0.0		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	45.4%
ICU Level of Service	A
Analysis Period (min)	15





Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↕		↕	
Volume (vph)	4	175	524	44	57	100
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.988		0.919	
Flt Protected		0.998			0.980	
Satd. Flow (prot)	0	1826	1837	0	1475	0
Flt Permitted		0.998			0.980	
Satd. Flow (perm)	0	1826	1837	0	1475	0
Link Speed (k/h)		40	40		40	
Link Distance (m)		38.9	173.7		104.0	
Travel Time (s)		3.5	15.6		9.4	
Peak Hour Factor	0.50	0.86	0.79	0.80	0.67	0.78
Growth Factor	122%	122%	100%	122%	122%	122%
Heavy Vehicles (%)	50%	2%	2%	4%	37%	2%
Adj. Flow (vph)	10	248	663	67	104	156
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	258	730	0	260	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

**Intersection Summary**

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	48.9%
	ICU Level of Service A
Analysis Period (min)	15

Lanes, Volumes, Timings

16: Rua Franciso da Silva Leme & Av. Salvador Markowicz/Av. Salvador Marcovicz 05/07/2016



Lane Group	EBT	EBR	WBL	WBT	NEL	NER
Lane Configurations	↑			↑	↘	↘
Volume (vph)	329	0	0	583	128	205
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.924	
Flt Protected					0.979	
Satd. Flow (prot)	1881	0	0	1863	1624	0
Flt Permitted					0.979	
Satd. Flow (perm)	1881	0	0	1863	1624	0
Link Speed (k/h)	40			40	40	
Link Distance (m)	173.7			31.9	227.4	
Travel Time (s)	15.6			2.9	20.5	
Peak Hour Factor	0.77	0.92	0.92	0.73	0.73	0.75
Growth Factor	122%	122%	122%	100%	122%	100%
Heavy Vehicles (%)	1%	2%	2%	2%	3%	8%
Adj. Flow (vph)	521	0	0	799	214	273
Shared Lane Traffic (%)						
Lane Group Flow (vph)	521	0	0	799	487	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	0.0			0.0	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane				Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

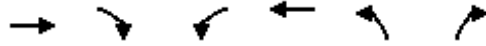
Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	58.6%
ICU Level of Service	B
Analysis Period (min)	15

# Lanes, Volumes, Timings

## 2: Rua Francisco Luigi Picarelli & Av. Salvador Markowicz

05/07/2016



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Volume (vph)	194	123	302	238	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.932					
Flt Protected				0.977		
Satd. Flow (prot)	1753	0	0	1830	0	0
Flt Permitted				0.977		
Satd. Flow (perm)	1753	0	0	1830	0	0
Link Speed (k/h)	40			40	40	
Link Distance (m)	126.2			38.9	76.1	
Travel Time (s)	11.4			3.5	6.8	
Peak Hour Factor	0.75	0.47	0.89	0.78	0.92	0.92
Growth Factor	122%	122%	100%	122%	122%	122%
Heavy Vehicles (%)	0%	2%	3%	0%	2%	2%
Adj. Flow (vph)	316	319	339	372	0	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	635	0	0	711	0	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	0.0			0.0	0.0	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	15		25	25		15
Sign Control	Free			Free	Stop	

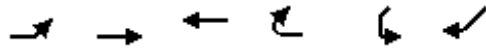
### Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	60.3%
ICU Level of Service	B
Analysis Period (min)	15

# Lanes, Volumes, Timings

## 3: Av. Salvador Markowicz & Rua Franciso da Silva Leme

05/07/2016



Lane Group	EBL	EBT	WBT	WBR	SWL	SWR
Lane Configurations						
Volume (vph)	360	320	297	89	194	99
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.967		0.957	
Flt Protected		0.974			0.967	
Satd. Flow (prot)	0	1772	1837	0	1753	0
Flt Permitted		0.974			0.967	
Satd. Flow (perm)	0	1772	1837	0	1753	0
Link Speed (k/h)		40	40		40	
Link Distance (m)		30.8	355.7		41.9	
Travel Time (s)		2.8	32.0		3.8	
Peak Hour Factor	0.67	0.80	0.92	0.86	0.90	0.80
Growth Factor	100%	122%	122%	122%	122%	100%
Heavy Vehicles (%)	3%	6%	0%	0%	0%	1%
Adj. Flow (vph)	537	488	394	126	263	124
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1025	520	0	387	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane		Yes	Yes			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

### Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	95.3%
ICU Level of Service	F
Analysis Period (min)	15

Lanes, Volumes, Timings

5: Rua Franciso da Silva Leme/HUSF & Rua Alexandre Simoni & Av. São Francisco de Assis

05/07/2016



Lane Group	EBR	WBL	WBT	WBR	WBR2	NEL2	NEL	NET	SWT	SWR
Lane Configurations										
Volume (vph)	10	221	110	51	13	29	27	23	63	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.865		0.976						0.990	
Flt Protected			0.976					0.965		
Satd. Flow (prot)	1479	0	1518	0	0	0	0	1496	1881	0
Flt Permitted			0.976					0.965		
Satd. Flow (perm)	1479	0	1518	0	0	0	0	1496	1881	0
Link Speed (k/h)			40					40	40	
Link Distance (m)			151.3					225.3	37.2	
Travel Time (s)			13.6					20.3	3.3	
Peak Hour Factor	0.63	0.80	0.74	0.79	0.81	0.57	0.81	0.72	0.63	0.38
Growth Factor	122%	100%	122%	122%	122%	122%	122%	122%	122%	122%
Heavy Vehicles (%)	0%	1%	21%	0%	0%	21%	4%	0%	0%	0%
Parking (#/hr)	0		0					0		
Adj. Flow (vph)	19	276	181	79	20	62	41	39	122	10
Shared Lane Traffic (%)										
Lane Group Flow (vph)	19	0	556	0	0	0	0	142	132	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Right	Left	Left	Right	Right	Left	Left	Left	Left	Right
Median Width(m)			0.0					0.0	0.0	
Link Offset(m)			0.0					0.0	0.0	
Crosswalk Width(m)			4.8					4.8	4.8	
Two way Left Turn Lane										
Headway Factor	1.14	1.00	1.14	1.00	1.00	1.00	1.00	1.14	1.00	1.00
Turning Speed (k/h)	15	25		15	15	25	25			15
Sign Control			Free					Stop	Stop	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	42.6%
ICU Level of Service	A
Analysis Period (min)	15

Lanes, Volumes, Timings  
6: Rua Franciso da Silva Leme & Rua Teixeira

05/07/2016

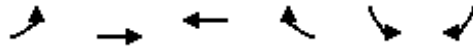


Lane Group	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations						
Volume (vph)	0	0	219	250	117	346
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.924			
Flt Protected						0.986
Satd. Flow (prot)	0	0	1733	0	0	1860
Flt Permitted						0.986
Satd. Flow (perm)	0	0	1733	0	0	1860
Link Speed (k/h)	40		40			40
Link Distance (m)	328.9		41.9			225.3
Travel Time (s)	29.6		3.8			20.3
Peak Hour Factor	0.92	0.92	0.86	0.77	0.72	0.87
Growth Factor	122%	122%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	3%	0%	0%	1%
Adj. Flow (vph)	0	0	255	325	163	398
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	580	0	0	560
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	0.0		0.0			0.0
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Free
<b>Intersection Summary</b>						
Area Type:	Other					
Control Type:	Unsignalized					
Intersection Capacity Utilization	58.2%			ICU Level of Service B		
Analysis Period (min)	15					

Lanes, Volumes, Timings

12: Av. Salvador Markowicz & Rua José Nóbrega Oliveira

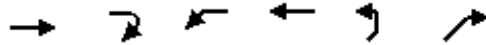
05/07/2016



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↕		↕	
Volume (vph)	6	188	447	57	87	119
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.978		0.916	
Flt Protected		0.999			0.981	
Satd. Flow (prot)	0	1898	1858	0	1576	0
Flt Permitted		0.999			0.981	
Satd. Flow (perm)	0	1898	1858	0	1576	0
Link Speed (k/h)		40	40		40	
Link Distance (m)		38.9	174.8		104.0	
Travel Time (s)		3.5	15.7		9.4	
Peak Hour Factor	0.75	0.47	0.89	0.70	0.76	0.64
Growth Factor	122%	122%	100%	122%	122%	122%
Heavy Vehicles (%)	0%	0%	0%	0%	17%	3%
Adj. Flow (vph)	10	488	502	99	140	227
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	498	601	0	367	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	49.2%
ICU Level of Service	A
Analysis Period (min)	15



Lane Group	EBT	EBR	WBL	WBT	NEL	NER
Lane Configurations	↑			↑	↘	↘
Volume (vph)	343	0	0	461	67	332
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.894	
Flt Protected					0.989	
Satd. Flow (prot)	1792	0	0	1881	1634	0
Flt Permitted					0.989	
Satd. Flow (perm)	1792	0	0	1881	1634	0
Link Speed (k/h)	40			40	40	
Link Distance (m)	174.8			30.8	227.4	
Travel Time (s)	15.7			2.8	20.5	
Peak Hour Factor	0.74	0.92	0.92	0.92	0.72	0.80
Growth Factor	122%	122%	122%	100%	122%	100%
Heavy Vehicles (%)	6%	2%	2%	1%	2%	3%
Adj. Flow (vph)	565	0	0	501	114	415
Shared Lane Traffic (%)						
Lane Group Flow (vph)	565	0	0	501	529	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	0.0			0.0	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane				Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

**Intersection Summary**

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	55.9%
ICU Level of Service	B
Analysis Period (min)	15





Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Volume (vph)	194	123	302	238	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.932					
Flt Protected				0.977		
Satd. Flow (prot)	1753	0	0	1830	0	0
Flt Permitted				0.977		
Satd. Flow (perm)	1753	0	0	1830	0	0
Link Speed (k/h)	40			40	40	
Link Distance (m)	126.2			38.9	76.1	
Travel Time (s)	11.4			3.5	6.8	
Peak Hour Factor	0.75	0.47	0.89	0.78	0.92	0.92
Growth Factor	122%	122%	100%	122%	122%	122%
Heavy Vehicles (%)	0%	2%	3%	0%	2%	2%
Adj. Flow (vph)	316	319	339	372	0	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	635	0	0	711	0	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	0.0			0.0	0.0	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	15		25	25		15
Sign Control	Free			Free	Stop	

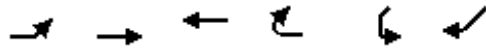
**Intersection Summary**

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	60.3%
ICU Level of Service	B
Analysis Period (min)	15

Lanes, Volumes, Timings

3: Av. Salvador Markowicz & Rua Franciso da Silva Leme

10/07/2016



Lane Group	EBL	EBT	WBT	WBR	SWL	SWR
Lane Configurations						
Volume (vph)	360	320	297	89	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.967			
Flt Protected		0.974				
Satd. Flow (prot)	0	1772	1837	0	0	0
Flt Permitted		0.974				
Satd. Flow (perm)	0	1772	1837	0	0	0
Link Speed (k/h)		40	40		40	
Link Distance (m)		30.8	355.7		41.9	
Travel Time (s)		2.8	32.0		3.8	
Peak Hour Factor	0.67	0.80	0.92	0.86	0.90	0.80
Growth Factor	100%	122%	122%	122%	122%	100%
Heavy Vehicles (%)	3%	6%	0%	0%	0%	1%
Adj. Flow (vph)	537	488	394	126	0	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	1025	520	0	0	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		0.0	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane		Yes	Yes			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	72.8%
ICU Level of Service	C
Analysis Period (min)	15

# Lanes, Volumes, Timings

## 5: Rua Franciso da Silva Leme/HUSF & Rua Alexandre Simoni & Av. São Francisco de Assis

10/07/2016



Lane Group	EBR	WBL	WBT	WBR	WBR2	NEL2	NEL	NET	SWT	SWR
Lane Configurations										
Volume (vph)	10	221	110	51	13	29	27	23	63	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.865		0.976						0.990	
Flt Protected			0.976					0.965		
Satd. Flow (prot)	1479	0	1518	0	0	0	0	1496	1881	0
Flt Permitted			0.976					0.965		
Satd. Flow (perm)	1479	0	1518	0	0	0	0	1496	1881	0
Link Speed (k/h)			40					40	40	
Link Distance (m)			151.3					155.4	37.2	
Travel Time (s)			13.6					14.0	3.3	
Peak Hour Factor	0.63	0.80	0.74	0.79	0.81	0.57	0.81	0.72	0.63	0.38
Growth Factor	122%	100%	122%	122%	122%	122%	122%	122%	122%	122%
Heavy Vehicles (%)	0%	1%	21%	0%	0%	21%	4%	0%	0%	0%
Parking (#/hr)	0		0					0		
Adj. Flow (vph)	19	276	181	79	20	62	41	39	122	10
Shared Lane Traffic (%)										
Lane Group Flow (vph)	19	0	556	0	0	0	0	142	132	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Right	Left	Left	Right	Right	Left	Left	Left	Left	Right
Median Width(m)			0.0					0.0	0.0	
Link Offset(m)			0.0					0.0	0.0	
Crosswalk Width(m)			4.8					4.8	4.8	
Two way Left Turn Lane										
Headway Factor	1.14	1.00	1.14	1.00	1.00	1.00	1.00	1.14	1.00	1.00
Turning Speed (k/h)	15	25		15	15	25	25			15
Sign Control			Free					Stop	Stop	

### Intersection Summary

Area Type: Other

Control Type: Unsignalized

Intersection Capacity Utilization 42.6%

ICU Level of Service A

Analysis Period (min) 15

Lanes, Volumes, Timings  
 6: Rua Franciso da Silva Leme & Rua Teixeira

10/07/2016



Lane Group	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations						
Volume (vph)	0	0	219	250	346	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	0.95	0.95	1.00	1.00
Frt			0.916			
Flt Protected					0.950	
Satd. Flow (prot)	0	0	3264	0	1805	0
Flt Permitted					0.950	
Satd. Flow (perm)	0	0	3264	0	1805	0
Link Speed (k/h)	40		40			40
Link Distance (m)	328.9		41.9			69.9
Travel Time (s)	29.6		3.8			6.3
Peak Hour Factor	0.92	0.92	0.86	0.77	0.72	0.87
Growth Factor	122%	122%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	3%	0%	0%	1%
Adj. Flow (vph)	0	0	255	325	481	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	580	0	481	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(m)	0.0		3.6			3.6
Link Offset(m)	0.0		0.0			0.0
Crosswalk Width(m)	4.8		4.8			4.8
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15		15	25	
Sign Control	Stop		Free			Stop

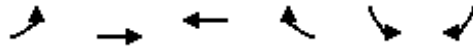
Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	39.9%
ICU Level of Service	A
Analysis Period (min)	15

Lanes, Volumes, Timings

12: Av. Salvador Markowicz & Rua José Nóbrega Oliveira

10/07/2016



Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↕		↕	
Volume (vph)	6	188	447	57	87	119
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.978		0.916	
Flt Protected		0.999			0.981	
Satd. Flow (prot)	0	1898	1858	0	1576	0
Flt Permitted		0.999			0.981	
Satd. Flow (perm)	0	1898	1858	0	1576	0
Link Speed (k/h)		40	40		40	
Link Distance (m)		38.9	174.8		104.0	
Travel Time (s)		3.5	15.7		9.4	
Peak Hour Factor	0.75	0.47	0.89	0.70	0.76	0.64
Growth Factor	122%	122%	100%	122%	122%	122%
Heavy Vehicles (%)	0%	0%	0%	0%	17%	3%
Adj. Flow (vph)	10	488	502	99	140	227
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	498	601	0	367	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Left	Left	Right	Left	Right
Median Width(m)		0.0	0.0		3.6	
Link Offset(m)		0.0	0.0		0.0	
Crosswalk Width(m)		4.8	4.8		4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25			15	25	15
Sign Control		Free	Free		Stop	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	49.2%
ICU Level of Service	A
Analysis Period (min)	15

Lanes, Volumes, Timings  
 14: Rua Franciso da Silva Leme

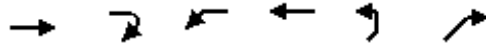
10/07/2016



Lane Group	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations				↑	↑	
Volume (vph)	0	0	0	219	346	99
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.970	
Flt Protected						
Satd. Flow (prot)	0	0	0	1863	1807	0
Flt Permitted						
Satd. Flow (perm)	0	0	0	1863	1807	0
Link Speed (k/h)	40			40	40	
Link Distance (m)	148.3			69.9	155.4	
Travel Time (s)	13.3			6.3	14.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	122%	122%	122%	100%	100%	100%
Adj. Flow (vph)	0	0	0	238	376	108
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	0	0	238	484	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	0.0			0.0	0.0	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)	25	15	25			15
Sign Control	Stop			Free	Free	

Intersection Summary

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	39.9%
ICU Level of Service	A
Analysis Period (min)	15



Lane Group	EBT	EBR	WBL	WBT	NEL	NER
Lane Configurations	↑			↑	↘	↘
Volume (vph)	343	0	0	362	67	332
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.894	
Flt Protected					0.989	
Satd. Flow (prot)	1792	0	0	1881	1634	0
Flt Permitted					0.989	
Satd. Flow (perm)	1792	0	0	1881	1634	0
Link Speed (k/h)	40			40	40	
Link Distance (m)	174.8			30.8	227.4	
Travel Time (s)	15.7			2.8	20.5	
Peak Hour Factor	0.74	0.92	0.92	0.92	0.72	0.80
Growth Factor	122%	122%	122%	100%	122%	100%
Heavy Vehicles (%)	6%	2%	2%	1%	2%	3%
Adj. Flow (vph)	565	0	0	393	114	415
Shared Lane Traffic (%)						
Lane Group Flow (vph)	565	0	0	393	529	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(m)	0.0			0.0	3.6	
Link Offset(m)	0.0			0.0	0.0	
Crosswalk Width(m)	4.8			4.8	4.8	
Two way Left Turn Lane				Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (k/h)		15	25		25	15
Sign Control	Free			Free	Stop	

**Intersection Summary**

Area Type:	Other
Control Type:	Unsignalized
Intersection Capacity Utilization	53.7%
ICU Level of Service	A
Analysis Period (min)	15