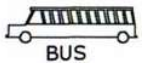
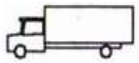
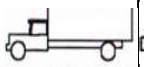
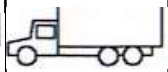
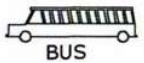
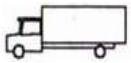
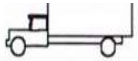
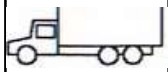
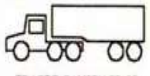
TABLA 2. DISTRIBUCIÓN DIRECCIONAL DEL TRÁNSITO AFORO 01								
SENTIDO	**TIPO DE VEHICULO**							**TOTAL**
	AUTOS	**BUSES**	**C2- P**	**C2- G**	**C3**	**C5**	**C>5**	
								
NORTE-SUR	55	12	10	11	9	4	2	103
SUR-NORTE	40	9	7	8	6	4	2	76
UNIDADES	95	21	17	19	15	8	4	179
% TIPO DE VEHÍCULO	53.1%	11.7%	9.5%	10.6%	8.38%	4.47%	2.23%	100%

PORCENTAJE CARRIL DE DISEÑO	***50.0%***

Nota:Cifras redondeadas por hoja de cálculo

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TABLA 3. TRÁNSITO PROMEDIO DIARIO AFORO 01

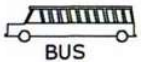
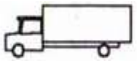
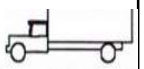
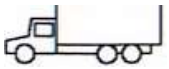
TRÁNSITO PROMEDIO DIARIO	TIPO DE VEHICULO							TOTAL
	AUTOS	BUSES	C2- P	C2- G	C3	C5	C>5	
								
TPD	95	21	17	19	15	8	4	179
% TIPO DE VEHÍCULO	53.1%	11.7%	9.5%	10.6%	8.4%	4.5%	2.2%	100%

AUTOS ***53.07%***

COMERCIALES ***46.93%***

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TABLA 4. TRÁNSITO PROMEDIO DÍARIO PROYECTADO AFORO 01

r	5.00%								
AÑO		TIPO DE VEHICULO							TPD
		AUTOS	BUSES	C2- P	C2- G	C3	C5	C>5	
									
0	2024	95	21	17	19	15	8	4	179
1	2025	100	22	18	20	16	8	4	188
2	2026	105	23	19	21	17	9	4	198
3	2027	110	24	20	22	17	9	5	207
4	2028	115	26	21	23	18	10	5	218
5	2029	121	27	22	24	19	10	5	228
6	2030	127	28	23	25	20	11	5	239
7	2031	134	30	24	27	21	11	6	253
8	2032	140	31	25	28	22	12	6	264
9	2033	147	33	26	29	23	12	6	276
10	2034	155	34	28	31	24	13	7	292
11	2035	162	36	29	32	26	14	7	306
12	2036	171	38	31	34	27	14	7	322
13	2037	179	40	32	36	28	15	8	338
14	2038	188	42	34	38	30	16	8	356
15	2039	197	44	35	39	31	17	8	371
16	2040	207	46	37	41	33	17	9	390
17	2041	218	48	39	44	34	18	9	410
18	2042	229	51	41	46	36	19	10	432
19	2043	240	53	43	48	38	20	10	452
20	2044	252	56	45	50	40	21	11	475

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Tipo de Vehículo		Factor de Daño
BUSES	Bus	0.4
	Bus Metropolitano	1
C2P	C2P	1.4 - 1.14
C2G	C2G	1.4 - 3.44
C3 Y C4	C3	2.4 - 3.76
	C2 S1	3.37
	C4	3.67 - 6.73
	C3S1	2.22
	C2S2	3.42
C5	C3S2	4.67 - 4.4
> C5	> C5	5.0-4.72

	BUSES	**C2- P**	**C2- G**	**C3**	**C5**	**C>5**
	11.73%	9.50%	10.61%	8.38%	4.47%	2.23%
Factor de daño	1	1.4	3.44	3.76	4.67	5

FACTOR CAMION	FC	2.80

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n 1 N 10 años **Sector** Orqueta - La Reforma

r 4.00% **Aforo 02**

TABLA 5. DETERMINACIÓN DEL NÚMERO DE EJES EQUIVALENTES A 8,2 TN

AÑO		TPD	Te n	Ta	Tactual	Tg	Tgn	Tdes	T proy	% Vehiculos comerciales	% Carril de Diseño	Nc	N = Nc * FACTOR CAMIÓN (Fc=2.8)	1.159 * N	N acumulado
				5%	Ten + Ta	10%		10%		46.93%	50%		2.80	1.16	
0	2024	179	186	9	195	19	19	20	233	110	55	19,992	55,976	64,876	65,165
1	2025	188	196	10	206	20	19	21	246	115	58	21,044	58,924	68,293	133,458
2	2026	198	206	10	216	21	19	22	257	121	60	22,034	61,694	71,503	204,962
3	2027	207	215	11	226	22	19	23	268	126	63	22,924	64,187	74,392	279,354
4	2028	218	227	11	238	23	19	24	282	132	66	24,111	67,510	78,244	357,599
5	**2029**	**228**	**237**	**12**	**249**	**24**	**19**	**25**	**293**	**138**	**69**	**25,100**	**70,280**	**81,455**	**440,259**
6	2030	239	249	12	261	25	19	26	307	144	72	26,287	73,604	85,307	525,566
7	2031	253	263	13	276	26	19	28	323	152	76	27,672	77,481	89,801	615,366
8	2032	264	275	14	289	28	19	29	337	158	79	28,859	80,805	93,653	709,019
9	2033	276	287	14	301	29	19	30	351	165	82	30,046	84,128	97,505	806,524
10	**2034**	**292**	**304**	**15**	**319**	**30**	**19**	**32**	**370**	**174**	**87**	**31,727**	**88,837**	**102,962**	**911,722**
11	2035	306	318	16	334	32	19	33	387	181	91	33,112	92,714	107,456	1,019,178
12	2036	322	335	17	352	34	19	35	406	191	95	34,794	97,423	112,913	1,132,091
13	2037	338	352	18	370	35	19	37	426	200	100	36,475	102,131	118,370	1,250,461
14	2038	356	370	19	389	37	19	39	447	210	105	38,256	107,117	124,148	1,374,610
15	***2039***	***371***	***386***	***19***	***405***	***39***	***19***	***41***	***465***	***218***	***109***	***39,839***	***111,548***	***129,284***	***1,507,088***
16	2040	390	406	20	426	41	19	43	488	229	115	41,817	117,088	135,704	1,642,792
17	2041	410	426	21	447	43	19	45	511	240	120	43,795	122,627	142,125	1,784,917
18	2042	432	449	22	471	45	19	47	538	252	126	46,070	128,997	149,508	1,934,425
19	2043	452	470	24	494	47	19	49	562	264	132	48,148	134,813	156,249	2,090,674
20	**2044**	**475**	**494**	**25**	**519**	**49**	**19**	**52**	**590**	**277**	**138**	**50,522**	**141,461**	**163,953**	**2,259,654**

TABLA 6

NUMERO DE EJES EQUIVALENTES A 5, 10, 15 Y 20 AÑOS PARA PROPUESTA DE PAVIMENTO FLEXIBLE

5 AÑOS	440,259
10 AÑOS	**911,722**
15 AÑOS	1,507,088
20 AÑOS	2,259,654

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