

APPENDIX I:

Pedestrian Delay Calculations

Alternative 1 - Existing Signal Phasing

	Time of Pedestrian Arrival	Button Pushed Before Ped Arrives		Button Not Pushed Before Ped Arrives		Average Delay
		Time of Pedestrian Crossing	Delay	Time of Pedestrian Crossing	Delay	
Market Street Phase	1	35	34	35	34	34.0
Market Street Phase	2	35	33	35	33	33.0
Market Street Phase	3	35	32	35	32	32.0
Market Street Phase	4	35	31	35	31	31.0
Market Street Phase	5	35	30	35	30	30.0
Market Street Phase	6	35	29	35	29	29.0
Market Street Phase	7	35	28	35	28	28.0
Market Street Phase	8	35	27	35	27	27.0
Market Street Phase	9	35	26	35	26	26.0
Market Street Phase	10	35	25	35	25	25.0
Market Street Phase	11	35	24	35	24	24.0
Market Street Phase	12	35	23	35	23	23.0
Market Street Phase	13	35	22	35	22	22.0
Market Street Phase	14	35	21	35	21	21.0
Market Street Phase	15	35	20	35	20	20.0
Market Street Phase	16	35	19	35	19	19.0
Market Street Phase	17	35	18	35	18	18.0
Market Street Phase	18	35	17	35	17	17.0
Market Street Phase	19	35	16	35	16	16.0
Market Street Phase	20	35	15	35	15	15.0
Market Street Phase	21	35	14	35	14	14.0
Market Street Phase	22	35	13	35	13	13.0
Market Street Phase	23	35	12	35	12	12.0
Market Street Phase	24	35	11	35	11	11.0
Market Street Phase	25	35	10	35	10	10.0
Market Street Phase	26	35	9	35	9	9.0
Market Street Phase	27	35	8	35	8	8.0
Market Street Phase	28	35	7	35	7	7.0
Market Street Phase	29	35	6	35	6	6.0
Market Street Phase	30	35	5	35	5	5.0
Market Street Phase	31	35	4	35	4	4.0
Market Street Phase	32	35	3	35	3	3.0
Market Street Phase	33	35	2	35	2	2.0
Market Street Phase	34	35	1	35	1	1.0
Pedestrian Phase	35	35	0	125	90	45.0
Pedestrian Phase	36	36	0	125	89	44.5
Pedestrian Phase	37	37	0	125	88	44.0

Alternative 1 - Existing Signal Phasing

Pedestrian Phase	38	38	0	125	87	43.5
Pedestrian Phase	39	39	0	125	86	43.0
Pedestrian Phase	40	40	0	125	85	42.5
Pedestrian Phase	41	41	0	125	84	42.0
Pedestrian Phase	42	42	0	125	83	41.5
Pedestrian Phase	43	43	0	125	82	41.0
Pedestrian Phase	44	44	0	125	81	40.5
Pedestrian Phase	45	45	0	125	80	40.0
Pedestrian Phase	46	46	0	125	79	39.5
Pedestrian Phase	47	125	78	125	78	78.0
Pedestrian Phase	48	125	77	125	77	77.0
Pedestrian Phase	49	125	76	125	76	76.0
Pedestrian Phase	50	125	75	125	75	75.0
Pedestrian Phase	51	125	74	125	74	74.0
Pedestrian Phase	52	125	73	125	73	73.0
Pedestrian Phase	53	125	72	125	72	72.0
Pedestrian Phase	54	125	71	125	71	71.0
North/South Phase	55	125	70	125	70	70.0
North/South Phase	56	125	69	125	69	69.0
North/South Phase	57	125	68	125	68	68.0
North/South Phase	58	125	67	125	67	67.0
North/South Phase	59	125	66	125	66	66.0
North/South Phase	60	125	65	125	65	65.0
North/South Phase	61	125	64	125	64	64.0
North/South Phase	62	125	63	125	63	63.0
North/South Phase	63	125	62	125	62	62.0
North/South Phase	64	125	61	125	61	61.0
North/South Phase	65	125	60	125	60	60.0
North/South Phase	66	125	59	125	59	59.0
North/South Phase	67	125	58	125	58	58.0
North/South Phase	68	125	57	125	57	57.0
North/South Phase	69	125	56	125	56	56.0
North/South Phase	70	125	55	125	55	55.0
North/South Phase	71	125	54	125	54	54.0
North/South Phase	72	125	53	125	53	53.0
North/South Phase	73	125	52	125	52	52.0
North/South Phase	74	125	51	125	51	51.0
North/South Phase	75	125	50	125	50	50.0
North/South Phase	76	125	49	125	49	49.0
North/South Phase	77	125	48	125	48	48.0

Alternative 1 - Existing Signal Phasing

North/South Phase	78	125	47	125	125	47	47.0
North/South Phase	79	125	46	125	125	46	46.0
North/South Phase	80	125	45	125	125	45	45.0
North/South Phase	81	125	44	125	125	44	44.0
North/South Phase	82	125	43	125	125	43	43.0
North/South Phase	83	125	42	125	125	42	42.0
North/South Phase	84	125	41	125	125	41	41.0
North/South Phase	85	125	40	125	125	40	40.0
North/South Phase	86	125	39	125	125	39	39.0
North/South Phase	87	125	38	125	125	38	38.0
North/South Phase	88	125	37	125	125	37	37.0
North/South Phase	89	125	36	125	125	36	36.0
North/South Phase	90	125	35	125	125	35	35.0

Average Delay: 39.9

Alternative 2 - Reduce Cycle Length During Peak Periods

	Time of Pedestrian Arrival	Button Pushed Before Ped Arrives		Button Not Pushed Before Ped Arrives		Average Delay
		Time of Pedestrian Crossing	Delay	Time of Pedestrian Crossing	Delay	
Market Street Phase	1	34	33	34	33	33.0
Market Street Phase	2	34	32	34	32	32.0
Market Street Phase	3	34	31	34	31	31.0
Market Street Phase	4	34	30	34	30	30.0
Market Street Phase	5	34	29	34	29	29.0
Market Street Phase	6	34	28	34	28	28.0
Market Street Phase	7	34	27	34	27	27.0
Market Street Phase	8	34	26	34	26	26.0
Market Street Phase	9	34	25	34	25	25.0
Market Street Phase	10	34	24	34	24	24.0
Market Street Phase	11	34	23	34	23	23.0
Market Street Phase	12	34	22	34	22	22.0
Market Street Phase	13	34	21	34	21	21.0
Market Street Phase	14	34	20	34	20	20.0
Market Street Phase	15	34	19	34	19	19.0
Market Street Phase	16	34	18	34	18	18.0
Market Street Phase	17	34	17	34	17	17.0
Market Street Phase	18	34	16	34	16	16.0
Market Street Phase	19	34	15	34	15	15.0
Market Street Phase	20	34	14	34	14	14.0
Market Street Phase	21	34	13	34	13	13.0
Market Street Phase	22	34	12	34	12	12.0
Market Street Phase	23	34	11	34	11	11.0
Market Street Phase	24	34	10	34	10	10.0
Market Street Phase	25	34	9	34	9	9.0
Market Street Phase	26	34	8	34	8	8.0
Market Street Phase	27	34	7	34	7	7.0
Market Street Phase	28	34	6	34	6	6.0
Market Street Phase	29	34	5	34	5	5.0
Market Street Phase	30	34	4	34	4	4.0
Market Street Phase	31	34	3	34	3	3.0
Market Street Phase	32	34	2	34	2	2.0
Market Street Phase	33	34	1	34	1	1.0
Pedestrian Phase	34	34	0	104	70	35.0
Pedestrian Phase	35	35	0	104	69	34.5
Pedestrian Phase	36	36	0	104	68	34.0
Pedestrian Phase	37	37	0	104	67	33.5

Alternative 2 - Reduce Cycle Length During Peak Periods

Pedestrian Phase	38	38	0	104	66	33.0
Pedestrian Phase	39	39	0	104	65	32.5
Pedestrian Phase	40	40	0	104	64	32.0
Pedestrian Phase	41	41	0	104	63	31.5
Pedestrian Phase	42	42	0	104	62	31.0
Pedestrian Phase	43	43	0	104	61	30.5
Pedestrian Phase	44	104	60	104	60	60.0
Pedestrian Phase	45	104	59	104	59	59.0
Pedestrian Phase	46	104	58	104	58	58.0
Pedestrian Phase	47	104	57	104	57	57.0
Pedestrian Phase	48	104	56	104	56	56.0
Pedestrian Phase	49	104	55	104	55	55.0
Pedestrian Phase	50	104	54	104	54	54.0
Pedestrian Phase	51	104	53	104	53	53.0
Pedestrian Phase	52	104	52	104	52	52.0
Pedestrian Phase	53	104	51	104	51	51.0
North/South Phase	54	104	50	104	50	50.0
North/South Phase	55	104	49	104	49	49.0
North/South Phase	56	104	48	104	48	48.0
North/South Phase	57	104	47	104	47	47.0
North/South Phase	58	104	46	104	46	46.0
North/South Phase	59	104	45	104	45	45.0
North/South Phase	60	104	44	104	44	44.0
North/South Phase	61	104	43	104	43	43.0
North/South Phase	62	104	42	104	42	42.0
North/South Phase	63	104	41	104	41	41.0
North/South Phase	64	104	40	104	40	40.0
North/South Phase	65	104	39	104	39	39.0
North/South Phase	66	104	38	104	38	38.0
North/South Phase	67	104	37	104	37	37.0
North/South Phase	68	104	36	104	36	36.0
North/South Phase	69	104	35	104	35	35.0
North/South Phase	70	104	34	104	34	34.0

Average Delay:

30.8

Alternative 3 - Pedestrian Phase Each Cycle

	Time of Pedestrian Arrival	Button Pushed Before Ped Arrives Time of Pedestrian Crossing	Delay	Average Delay
Market Street Phase	1	40	39	39.0
Market Street Phase	2	40	38	38.0
Market Street Phase	3	40	37	37.0
Market Street Phase	4	40	36	36.0
Market Street Phase	5	40	35	35.0
Market Street Phase	6	40	34	34.0
Market Street Phase	7	40	33	33.0
Market Street Phase	8	40	32	32.0
Market Street Phase	9	40	31	31.0
Market Street Phase	10	40	30	30.0
Market Street Phase	11	40	29	29.0
Market Street Phase	12	40	28	28.0
Market Street Phase	13	40	27	27.0
Market Street Phase	14	40	26	26.0
Market Street Phase	15	40	25	25.0
Market Street Phase	16	40	24	24.0
Market Street Phase	17	40	23	23.0
Market Street Phase	18	40	22	22.0
Market Street Phase	19	40	21	21.0
Market Street Phase	20	40	20	20.0
Market Street Phase	21	40	19	19.0
Market Street Phase	22	40	18	18.0
Market Street Phase	23	40	17	17.0
Market Street Phase	24	40	16	16.0
Market Street Phase	25	40	15	15.0
Market Street Phase	26	40	14	14.0
Market Street Phase	27	40	13	13.0
Market Street Phase	28	40	12	12.0
Market Street Phase	29	40	11	11.0
Market Street Phase	30	40	10	10.0
Market Street Phase	31	40	9	9.0
Market Street Phase	32	40	8	8.0
Market Street Phase	33	40	7	7.0
Market Street Phase	34	40	6	6.0
Market Street Phase	35	40	5	5.0
Market Street Phase	36	40	4	4.0
Market Street Phase	37	40	3	3.0

Alternative 3 - Pedestrian Phase Each Cycle

Market Street Phase	38	40	2	2.0
Market Street Phase	39	40	1	1.0
Pedestrian Phase	40	40	0	0.0
Pedestrian Phase	41	41	0	0.0
Pedestrian Phase	42	42	0	0.0
Pedestrian Phase	43	43	0	0.0
Pedestrian Phase	44	44	0	0.0
Pedestrian Phase	45	45	0	0.0
Pedestrian Phase	46	46	0	0.0
Pedestrian Phase	47	47	0	0.0
Pedestrian Phase	48	48	0	0.0
Pedestrian Phase	49	49	0	0.0
Pedestrian Phase	50	130	80	80.0
Pedestrian Phase	51	130	79	79.0
Pedestrian Phase	52	130	78	78.0
Pedestrian Phase	53	130	77	77.0
Pedestrian Phase	54	130	76	76.0
Pedestrian Phase	55	130	75	75.0
Pedestrian Phase	56	130	74	74.0
Pedestrian Phase	57	130	73	73.0
Pedestrian Phase	58	130	72	72.0
Pedestrian Phase	59	130	71	71.0
North/South Phase	60	130	70	70.0
North/South Phase	61	130	69	69.0
North/South Phase	62	130	68	68.0
North/South Phase	63	130	67	67.0
North/South Phase	64	130	66	66.0
North/South Phase	65	130	65	65.0
North/South Phase	66	130	64	64.0
North/South Phase	67	130	63	63.0
North/South Phase	68	130	62	62.0
North/South Phase	69	130	61	61.0
North/South Phase	70	130	60	60.0
North/South Phase	71	130	59	59.0
North/South Phase	72	130	58	58.0
North/South Phase	73	130	57	57.0
North/South Phase	74	130	56	56.0
North/South Phase	75	130	55	55.0
North/South Phase	76	130	54	54.0
North/South Phase	77	130	53	53.0

Alternative 3 - Pedestrian Phase Each Cycle

North/South Phase	78	130	52	52.0
North/South Phase	79	130	51	51.0
North/South Phase	80	130	50	50.0
North/South Phase	81	130	49	49.0
North/South Phase	82	130	48	48.0
North/South Phase	83	130	47	47.0
North/South Phase	84	130	46	46.0
North/South Phase	85	130	45	45.0
North/South Phase	86	130	44	44.0
North/South Phase	87	130	43	43.0
North/South Phase	88	130	42	42.0
North/South Phase	89	130	41	41.0
North/South Phase	90	130	40	40.0

Average Delay: 36.0

	Time of Pedestrian Arrival	Time of Pedestrian Crossing	Button Pushed Before Ped Arrives Delay	Average Delay
Market Street Phase	1	45	44	44.0
Market Street Phase	2	45	43	43.0
Market Street Phase	3	46	43	43.0
Market Street Phase	4	46	42	42.0
Market Street Phase	5	46	41	41.0
Market Street Phase	6	46	40	40.0
Market Street Phase	7	46	39	39.0
Market Street Phase	8	46	38	38.0
Market Street Phase	9	46	37	37.0
Market Street Phase	10	46	36	36.0
Market Street Phase	11	46	35	35.0
Market Street Phase	12	46	34	34.0
Market Street Phase	13	46	33	33.0
Market Street Phase	14	46	32	32.0
Market Street Phase	15	46	31	31.0
Market Street Phase	16	46	30	30.0
Market Street Phase	17	46	29	29.0
Market Street Phase	18	46	28	28.0
Market Street Phase	19	46	27	27.0
Market Street Phase	20	46	26	26.0
Market Street Phase	21	46	25	25.0
Market Street Phase	22	46	24	24.0
Market Street Phase	23	46	23	23.0
Market Street Phase	24	46	22	22.0
Market Street Phase	25	46	21	21.0
Market Street Phase	26	46	20	20.0
Market Street Phase	27	46	19	19.0
Market Street Phase	28	46	18	18.0
Market Street Phase	29	46	17	17.0
Market Street Phase	30	46	16	16.0
Market Street Phase	31	46	15	15.0
Market Street Phase	32	46	14	14.0
Market Street Phase	33	46	13	13.0
Market Street Phase	34	46	12	12.0
Market Street Phase	35	46	11	11.0
Market Street Phase	36	46	10	10.0
Market Street Phase	37	46	9	9.0

Market Street Phase	38	46	8		8.0
Market Street Phase	39	46	7		7.0
Market Street Phase	40	46	6		6.0
Market Street Phase	41	46	5		5.0
Market Street Phase	42	46	4		4.0
Market Street Phase	43	46	3		3.0
Market Street Phase	44	46	2		2.0
Market Street Phase	45	45	0		0.0
Pedestrian Phase	46	46	0		0.0
Pedestrian Phase	47	47	0		0.0
Pedestrian Phase	48	48	0		0.0
Pedestrian Phase	49	49	0		0.0
Pedestrian Phase	50	50	0		0.0
Pedestrian Phase	51	51	0		0.0
Pedestrian Phase	52	52	0		0.0
Pedestrian Phase	53	53	0		0.0
Pedestrian Phase	54	54	0		0.0
Pedestrian Phase	55	55	0		0.0
Pedestrian Phase	56	136	80		80.0
Pedestrian Phase	57	136	79		79.0
Pedestrian Phase	58	136	78		78.0
Pedestrian Phase	59	136	77		77.0
Pedestrian Phase	60	136	76		76.0
Pedestrian Phase	61	136	75		75.0
Pedestrian Phase	62	136	74		74.0
Pedestrian Phase	63	136	73		73.0
Pedestrian Phase	64	136	72		72.0
Pedestrian Phase	65	136	71		71.0
North/South Phase	66	136	70		70.0
North/South Phase	67	136	69		69.0
North/South Phase	68	136	68		68.0
North/South Phase	69	136	67		67.0
North/South Phase	70	136	66		66.0
North/South Phase	71	136	65		65.0
North/South Phase	72	136	64		64.0
North/South Phase	73	136	63		63.0
North/South Phase	74	136	62		62.0
North/South Phase	75	136	61		61.0
North/South Phase	76	136	60		60.0
North/South Phase	77	136	59		59.0

Alternative 4 - Pretimed

North/South Phase	78	136	58	58.0
North/South Phase	79	136	57	57.0
North/South Phase	80	136	56	56.0
North/South Phase	81	136	55	55.0
North/South Phase	82	136	54	54.0
North/South Phase	83	136	53	53.0
North/South Phase	84	136	52	52.0
North/South Phase	85	136	51	51.0
North/South Phase	86	136	50	50.0
North/South Phase	87	136	49	49.0
North/South Phase	88	136	48	48.0
North/South Phase	89	136	47	47.0
North/South Phase	90	136	46	46.0

Average Delay: 36.0

Alternative 5 - Two Exclusive Pedestrian Phases Per Cycle

Time of Pedestrian Arrival	Button Pushed Before Ped Arrives		Button Not Pushed Before Ped Arrives		Average Delay
	Time of Pedestrian Crossing	Delay	Time of Pedestrian Crossing	Delay	
Market Street Phase	1	31	32	31	31.0
Market Street Phase	2	30	32	30	30.0
Market Street Phase	3	29	32	29	29.0
Market Street Phase	4	28	32	28	28.0
Market Street Phase	5	27	32	27	27.0
Market Street Phase	6	26	32	26	26.0
Market Street Phase	7	25	32	25	25.0
Market Street Phase	8	24	32	24	24.0
Market Street Phase	9	23	32	23	23.0
Market Street Phase	10	22	32	22	22.0
Market Street Phase	11	21	32	21	21.0
Market Street Phase	12	20	32	20	20.0
Market Street Phase	13	19	32	19	19.0
Market Street Phase	14	18	32	18	18.0
Market Street Phase	15	17	32	17	17.0
Market Street Phase	16	16	32	16	16.0
Market Street Phase	17	15	32	15	15.0
Market Street Phase	18	14	32	14	14.0
Market Street Phase	19	13	32	13	13.0
Market Street Phase	20	12	32	12	12.0
Market Street Phase	21	11	32	11	11.0
Market Street Phase	22	10	32	10	10.0
Market Street Phase	23	9	32	9	9.0
Market Street Phase	24	8	32	8	8.0
Market Street Phase	25	7	32	7	7.0
Market Street Phase	26	6	32	6	6.0
Market Street Phase	27	5	32	5	5.0
Market Street Phase	28	4	32	4	4.0
Market Street Phase	29	3	32	3	3.0
Market Street Phase	30	2	32	2	2.0
Market Street Phase	31	1	32	1	1.0
Pedestrian Phase	32	0	32	0	0.0
Pedestrian Phase	33	0	33	38	19.0
Pedestrian Phase	34	0	34	37	18.5
Pedestrian Phase	35	0	35	36	18.0
Pedestrian Phase	36	0	36	35	17.5
Pedestrian Phase	37	0	37	34	17.0

Alternative 5 - Two Exclusive Pedestrian Phases Per Cycle

Pedestrian Phase	38	38	0	71	33	16.5
Pedestrian Phase	39	39	0	71	32	16.0
Pedestrian Phase	40	40	0	71	31	15.5
Pedestrian Phase	41	41	0	71	30	15.0
Pedestrian Phase	42	71	29	71	29	29.0
Pedestrian Phase	43	71	28	71	28	28.0
Pedestrian Phase	44	71	27	71	27	27.0
Pedestrian Phase	45	71	26	71	26	26.0
Pedestrian Phase	46	71	25	71	25	25.0
Pedestrian Phase	47	71	24	71	24	24.0
Pedestrian Phase	48	71	23	71	23	23.0
Pedestrian Phase	49	71	22	71	22	22.0
Pedestrian Phase	50	71	21	71	21	21.0
Pedestrian Phase	51	71	20	71	20	20.0
North/South Phase	52	71	19	71	19	19.0
North/South Phase	53	71	18	71	18	18.0
North/South Phase	54	71	17	71	17	17.0
North/South Phase	55	71	16	71	16	16.0
North/South Phase	56	71	15	71	15	15.0
North/South Phase	57	71	14	71	14	14.0
North/South Phase	58	71	13	71	13	13.0
North/South Phase	59	71	12	71	12	12.0
North/South Phase	60	71	11	71	11	11.0
North/South Phase	61	71	10	71	10	10.0
North/South Phase	62	71	9	71	9	9.0
North/South Phase	63	71	8	71	8	8.0
North/South Phase	64	71	7	71	7	7.0
North/South Phase	65	71	6	71	6	6.0
North/South Phase	66	71	5	71	5	5.0
North/South Phase	67	71	4	71	4	4.0
North/South Phase	68	71	3	71	3	3.0
North/South Phase	69	71	2	71	2	2.0
North/South Phase	70	71	1	71	1	1.0
Pedestrian Phase	71	71	0	121	50	25.0
Pedestrian Phase	72	72	0	121	49	24.5
Pedestrian Phase	73	73	0	121	48	24.0
Pedestrian Phase	74	74	0	121	47	23.5
Pedestrian Phase	75	75	0	121	46	23.0
Pedestrian Phase	76	76	0	121	45	22.5
Pedestrian Phase	77	77	0	121	44	22.0

Alternative 5 - Two Exclusive Pedestrian Phases Per Cycle

Pedestrian Phase	78	78	0	121	43	21.5
Pedestrian Phase	79	79	0	121	42	21.0
Pedestrian Phase	80	80	0	121	41	20.5
Pedestrian Phase	81	121	40	121	40	40.0
Pedestrian Phase	82	121	39	121	39	39.0
Pedestrian Phase	83	121	38	121	38	38.0
Pedestrian Phase	84	121	37	121	37	37.0
Pedestrian Phase	85	121	36	121	36	36.0
Pedestrian Phase	86	121	35	121	35	35.0
Pedestrian Phase	87	121	34	121	34	34.0
Pedestrian Phase	88	121	33	121	33	33.0
Pedestrian Phase	89	121	32	121	32	32.0
Pedestrian Phase	90	121	31	121	31	31.0

Average Delay: 18.5

Alternative 6 - Exclusive and Concurrent Pedestrian Phases

Time of Pedestrian Arrival	Crossing Minor Street		Crossing Market Street		Average Delay
	Time of Pedestrian Crossing	Delay	Time of Pedestrian Crossing	Delay	
Market Street Phase	1	0	35	34	17.0
Market Street Phase	2	0	35	33	16.5
Market Street Phase	3	0	35	32	16.0
Market Street Phase	4	0	35	31	15.5
Market Street Phase	5	0	35	30	15.0
Market Street Phase	6	0	35	29	14.5
Market Street Phase	7	0	35	28	14.0
Market Street Phase	8	0	35	27	13.5
Market Street Phase	9	0	35	26	13.0
Market Street Phase	10	0	35	25	12.5
Market Street Phase	11	0	35	24	12.0
Market Street Phase	12	0	35	23	11.5
Market Street Phase	13	0	35	22	11.0
Market Street Phase	14	0	35	21	10.5
Market Street Phase	15	0	35	20	10.0
Market Street Phase	16	0	35	19	9.5
Market Street Phase	17	0	35	18	9.0
Market Street Phase	18	0	35	17	8.5
Market Street Phase	19	0	35	16	8.0
Market Street Phase	20	0	35	15	7.5
Market Street Phase	21	0	35	14	7.0
Market Street Phase	22	0	35	13	6.5
Market Street Phase	23	0	35	12	6.0
Market Street Phase	24	0	35	11	5.5
Market Street Phase	25	10	35	10	10.0
Market Street Phase	26	9	35	9	9.0
Market Street Phase	27	8	35	8	8.0
Market Street Phase	28	7	35	7	7.0
Market Street Phase	29	6	35	6	6.0
Market Street Phase	30	5	35	5	5.0
Market Street Phase	31	4	35	4	4.0
Market Street Phase	32	3	35	3	3.0
Market Street Phase	33	2	35	2	2.0
Market Street Phase	34	1	35	1	1.0
Pedestrian Phase	35	0	35	0	0.0
Pedestrian Phase	36	0	36	0	0.0
Pedestrian Phase	37	0	37	0	0.0

Alternative 6 - Exclusive and Concurrent Pedestrian Phases

Pedestrian Phase	38	38	0	38	0	0.0
Pedestrian Phase	39	39	0	39	0	0.0
Pedestrian Phase	40	40	0	40	0	0.0
Pedestrian Phase	41	41	0	41	0	0.0
Pedestrian Phase	42	42	0	42	0	0.0
Pedestrian Phase	43	43	0	43	0	0.0
Pedestrian Phase	44	44	0	44	0	0.0
Pedestrian Phase	45	90	45	55	10	27.5
Pedestrian Phase	46	90	44	55	9	26.5
Pedestrian Phase	47	90	43	55	8	25.5
Pedestrian Phase	48	90	42	55	7	24.5
Pedestrian Phase	49	90	41	55	6	23.5
Pedestrian Phase	50	90	40	55	5	22.5
Pedestrian Phase	51	90	39	55	4	21.5
Pedestrian Phase	52	90	38	55	3	20.5
Pedestrian Phase	53	90	37	55	2	19.5
Pedestrian Phase	54	90	36	55	1	18.5
North/South Phase	55	90	35	55	0	17.5
North/South Phase	56	90	34	56	0	17.0
North/South Phase	57	90	33	57	0	16.5
North/South Phase	58	90	32	58	0	16.0
North/South Phase	59	90	31	59	0	15.5
North/South Phase	60	90	30	60	0	15.0
North/South Phase	61	90	29	61	0	14.5
North/South Phase	62	90	28	62	0	14.0
North/South Phase	63	90	27	63	0	13.5
North/South Phase	64	90	26	64	0	13.0
North/South Phase	65	90	25	65	0	12.5
North/South Phase	66	90	24	66	0	12.0
North/South Phase	67	90	23	67	0	11.5
North/South Phase	68	90	22	68	0	11.0
North/South Phase	69	90	21	69	0	10.5
North/South Phase	70	90	20	70	0	10.0
North/South Phase	71	90	19	71	0	9.5
North/South Phase	72	90	18	72	0	9.0
North/South Phase	73	90	17	73	0	8.5
North/South Phase	74	90	16	74	0	8.0
North/South Phase	75	90	15	75	0	7.5
North/South Phase	76	90	14	76	0	7.0
North/South Phase	77	90	13	77	0	6.5

Alternative 6 - Exclusive and Concurrent Pedestrian Phases

North/South Phase	78	90	12	78	0	6.0
North/South Phase	79	90	11	79	0	5.5
North/South Phase	80	90	10	80	0	5.0
North/South Phase	81	90	9	125	44	26.5
North/South Phase	82	90	8	125	43	25.5
North/South Phase	83	90	7	125	42	24.5
North/South Phase	84	90	6	125	41	23.5
North/South Phase	85	90	5	125	40	22.5
North/South Phase	86	90	4	125	39	21.5
North/South Phase	87	90	3	125	38	20.5
North/South Phase	88	90	2	125	37	19.5
North/South Phase	89	90	1	125	36	18.5
North/South Phase	90	90	0	125	35	17.5

Average Delay: 11.9

Alternative 7 - Replace Exclusive Pedestrian Phase with Leading Pedestrian Interval

Market Street Phase	Time of Pedestrian Arrival		Crossing Minor Street		Crossing Market Street		Average Delay
	Time of Pedestrian Arrival	Time of Pedestrian Crossing	Delay	Time of Pedestrian Crossing	Delay		
Market Street Phase	1	1	0	42	41	20.5	
Market Street Phase	2	2	0	42	40	20.0	
Market Street Phase	3	3	0	42	39	19.5	
Market Street Phase	4	4	0	42	38	19.0	
Market Street Phase	5	5	0	42	37	18.5	
Market Street Phase	6	6	0	42	36	18.0	
Market Street Phase	7	7	0	42	35	17.5	
Market Street Phase	8	8	0	42	34	17.0	
Market Street Phase	9	9	0	42	33	16.5	
Market Street Phase	10	10	0	42	32	16.0	
Market Street Phase	11	11	0	42	31	15.5	
Market Street Phase	12	12	0	42	30	15.0	
Market Street Phase	13	13	0	42	29	14.5	
Market Street Phase	14	14	0	42	28	14.0	
Market Street Phase	15	15	0	42	27	13.5	
Market Street Phase	16	16	0	42	26	13.0	
Market Street Phase	17	17	0	42	25	12.5	
Market Street Phase	18	18	0	42	24	12.0	
Market Street Phase	19	19	0	42	23	11.5	
Market Street Phase	20	20	0	42	22	11.0	
Market Street Phase	21	21	0	42	21	10.5	
Market Street Phase	22	22	0	42	20	10.0	
Market Street Phase	23	23	0	42	19	9.5	
Market Street Phase	24	24	0	42	18	9.0	
Market Street Phase	25	25	0	42	17	8.5	
Market Street Phase	26	26	0	42	16	8.0	
Market Street Phase	27	27	0	42	15	7.5	
Market Street Phase	28	28	0	42	14	7.0	
Market Street Phase	29	29	0	42	13	6.5	
Market Street Phase	30	30	0	42	12	6.0	
Market Street Phase	31	65	34	42	11	22.5	
Market Street Phase	32	65	33	42	10	21.5	
Market Street Phase	33	65	32	42	9	20.5	
Market Street Phase	34	65	31	42	8	19.5	
Market Street Phase	35	65	30	42	7	18.5	
Market Street Phase	36	65	29	42	6	17.5	
Market Street Phase	37	65	28	42	5	16.5	

Alternative 7 - Replace Exclusive Pedestrian Phase with Leading Pedestrian Interval

Market Street Phase	38	65	27	42	4	15.5
Market Street Phase	39	65	26	42	3	14.5
Market Street Phase	40	65	25	42	2	13.5
Market Street Phase	41	65	24	42	1	12.5
North/South Phase	42	65	23	42	0	11.5
North/South Phase	43	65	22	43	0	11.0
North/South Phase	44	65	21	44	0	10.5
North/South Phase	45	65	20	45	0	10.0
North/South Phase	46	65	19	46	0	9.5
North/South Phase	47	65	18	47	0	9.0
North/South Phase	48	65	17	48	0	8.5
North/South Phase	49	65	16	49	0	8.0
North/South Phase	50	65	15	50	0	7.5
North/South Phase	51	65	14	51	0	7.0
North/South Phase	52	65	13	52	0	6.5
North/South Phase	53	65	12	53	0	6.0
North/South Phase	54	65	11	54	0	5.5
North/South Phase	55	65	10	55	0	5.0
North/South Phase	56	65	9	106	50	29.5
North/South Phase	57	65	8	106	49	28.5
North/South Phase	58	65	7	106	48	27.5
North/South Phase	59	65	6	106	47	26.5
North/South Phase	60	65	5	106	46	25.5
North/South Phase	61	65	4	106	45	24.5
North/South Phase	62	65	3	106	44	23.5
North/South Phase	63	65	2	106	43	22.5
North/South Phase	64	65	1	106	42	21.5
North/South Phase	65	65	0	106	41	20.5

Average Delay: 14.7