

## **ATTACHMENT 2**

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# **SIMTRAFFIC PERFORMANCE REPORT OF MAIN STREET PROJECT ALTERNATIVES**

# **EXISTING**

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## Main Street SimTraffic Performance Report

9: Bel Way & Main St. Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.0	0.0
Denied Del/Veh (s)	0.2	0.4	0.1	0.0	0.0	0.0	2.6	0.6	2.7	3.4	0.2	0.2
Total Delay (hr)	1.0	3.5	0.5	2.8	1.5	0.1	3.8	8.3	1.3	1.4	4.4	0.2
Total Del/Veh (s)	71.8	41.5	6.1	70.1	27.1	3.7	66.2	39.9	18.1	61.0	40.8	32.6

9: Bel Way & Main St. Performance by movement

Movement	All
Denied Delay (hr)	0.6
Denied Del/Veh (s)	0.8
Total Delay (hr)	28.8
Total Del/Veh (s)	37.7

19: Main St. & 106th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.4	0.0	0.0	0.6	0.0	0.0	0.2	0.1	0.1	0.2	0.2	0.1
Total Delay (hr)	0.6	0.8	0.0	0.1	0.3	0.1	0.0	0.1	0.0	1.1	0.1	0.1
Total Del/Veh (s)	14.1	5.7	2.5	8.3	3.6	2.8	49.7	44.5	8.5	45.6	54.3	5.4

19: Main St. & 106th Performance by movement

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.1
Total Delay (hr)	3.5
Total Del/Veh (s)	8.8

24: Main St. & 108th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.3	0.0	0.0	0.2	0.2	0.3	0.4	0.4	0.4	0.1	0.1	0.1
Total Delay (hr)	0.3	1.3	0.4	1.1	1.3	0.4	0.7	2.5	1.7	0.4	0.1	0.0
Total Del/Veh (s)	19.9	10.2	8.3	28.2	12.3	9.2	46.8	47.0	46.8	36.5	36.3	4.2

24: Main St. & 108th Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	10.2
Total Del/Veh (s)	20.0

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Total Zone Performance

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Denied Delay (hr)	0.7
Denied Del/Veh (s)	0.8
Total Delay (hr)	42.4
Total Del/Veh (s)	2063.8

Arterial Level of Service: EB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Bel Way	9	41.4	49.9	0.1	5
	19	6.5	21.3	0.1	21
	24	10.1	24.6	0.1	19
Total		58.0	95.8	0.3	12

Arterial Level of Service: WB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
108th	24	12.3	26.0	0.1	16
106th	19	3.5	17.9	0.1	26
Bel Way	9	27.6	41.3	0.1	11
Total		43.3	85.2	0.4	16

9: Bel Way & Main St. Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.4	2.6	2.9	0.3	0.5
Total Delay (hr)	1.8	6.1	1.1	10.1	4.2	0.3	7.3	9.2	0.7	1.4	12.1	0.4
Total Del/Veh (s)	107.1	85.8	17.7	75.2	35.3	5.8	142.5	43.6	16.3	69.8	55.1	45.9

9: Bel Way & Main St. Performance by movement

Movement	All
Denied Delay (hr)	0.5
Denied Del/Veh (s)	0.5
Total Delay (hr)	54.5
Total Del/Veh (s)	54.6

19: Main St. & 106th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.3	0.1	0.3
Total Delay (hr)	0.7	0.9	0.0	0.0	3.8	0.2	0.0	0.0	0.0	2.7	0.1	3.0
Total Del/Veh (s)	36.1	8.4	3.2	18.2	17.5	6.1	57.5	46.6	5.8	43.5	37.6	40.8

19: Main St. & 106th Performance by movement

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.1
Total Delay (hr)	11.6
Total Del/Veh (s)	21.7

24: Main St. & 108th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total Delay (hr)	0.3	1.0	0.2	1.8	1.8	0.1	0.8	1.2	1.1	2.0	0.2	0.4
Total Del/Veh (s)	20.3	7.3	6.3	24.9	9.2	5.7	50.8	52.3	49.6	45.1	52.6	8.7

24: Main St. & 108th Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	10.9
Total Del/Veh (s)	17.6

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Total Zone Performance

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Denied Delay (hr)	0.6
Denied Del/Veh (s)	0.5
Total Delay (hr)	77.0
Total Del/Veh (s)	1307.1

Arterial Level of Service: EB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Bel Way	9	85.5	93.6	0.1	2
	19	8.4	23.8	0.1	19
	24	6.2	21.3	0.1	22
Total		100.2	138.7	0.3	8

Arterial Level of Service: WB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
108th	24	9.2	22.9	0.1	18
106th	19	17.3	32.6	0.1	14
Bel Way	9	36.1	49.1	0.1	9
Total		62.6	104.6	0.4	13



# **ALTERNATIVE 1**

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## Main Street SimTraffic Performance Report

9: Bel Way & Main St. Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.1	0.0	0.0
Denied Del/Veh (s)	0.8	0.8	0.2	0.0	0.0	0.0	2.7	0.6	2.7	3.4	0.2	0.2
Total Delay (hr)	1.0	3.6	0.4	2.6	1.4	0.1	4.0	8.2	1.1	1.4	4.5	0.1
Total Del/Veh (s)	76.2	42.3	6.2	67.8	26.6	5.6	66.0	39.1	16.9	60.9	42.7	30.8

9: Bel Way & Main St. Performance by movement

Movement	All
Denied Delay (hr)	0.7
Denied Del/Veh (s)	0.9
Total Delay (hr)	28.5
Total Del/Veh (s)	38.0

19: Main St. & 106th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.3	0.1	0.0	0.6	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1
Total Delay (hr)	0.7	1.1	0.0	0.1	0.5	0.2	0.0	0.0	0.0	1.3	0.1	0.1
Total Del/Veh (s)	17.1	7.4	6.3	12.5	5.6	3.8	35.0	34.1	6.8	46.9	50.6	6.5

19: Main St. & 106th Performance by movement

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.1
Total Delay (hr)	4.1
Total Del/Veh (s)	10.9

24: Main St. & 108th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.5	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.1	0.1	0.1
Total Delay (hr)	0.3	2.3	0.7	2.1	1.3	0.2	0.7	2.7	1.7	0.4	0.1	0.0
Total Del/Veh (s)	23.2	17.6	13.4	57.3	12.2	4.7	48.9	49.9	47.7	48.3	37.2	5.1

24: Main St. & 108th Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.3
Total Delay (hr)	12.6
Total Del/Veh (s)	24.8

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Total Zone Performance

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Denied Delay (hr)	0.8
Denied Del/Veh (s)	1.0
Total Delay (hr)	45.2
Total Del/Veh (s)	1849.9

Arterial Level of Service  
 AM Buffered Both Directions, 150' RT pocket

3/12/2019

Arterial Level of Service: EB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Bel Way	9	42.6	51.5	0.1	4
	19	9.3	24.3	0.1	19
	24	16.8	31.4	0.1	15
Total		68.8	107.2	0.3	11

Arterial Level of Service: WB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
108th	24	12.2	25.8	0.1	16
106th	19	5.6	19.9	0.1	23
Bel Way	9	26.5	40.0	0.1	11
Total		44.3	85.8	0.4	16

9: Bel Way & Main St. Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.5	2.7	2.8	0.3	0.4
Total Delay (hr)	1.7	5.1	1.1	8.9	3.8	0.6	8.7	9.4	0.9	1.6	12.7	0.4
Total Del/Veh (s)	96.1	73.7	17.1	67.2	32.6	13.8	169.5	45.3	21.3	88.4	55.9	45.0

9: Bel Way & Main St. Performance by movement

Movement	All
Denied Delay (hr)	0.5
Denied Del/Veh (s)	0.5
Total Delay (hr)	54.9
Total Del/Veh (s)	55.0

19: Main St. & 106th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.2	0.0	0.0	2.3	3.2	0.1	0.1	0.1	0.2	0.4	0.3
Total Delay (hr)	2.4	2.1	0.0	0.1	8.7	1.5	0.1	0.0	0.0	2.5	0.1	3.4
Total Del/Veh (s)	131.4	18.5	27.8	41.3	40.5	36.4	76.6	51.6	16.6	41.0	41.3	46.7

19: Main St. & 106th Performance by movement

Movement	All
Denied Delay (hr)	0.7
Denied Del/Veh (s)	1.3
Total Delay (hr)	21.0
Total Del/Veh (s)	39.7

24: Main St. & 108th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	2.7	2.6	1.9	0.3	0.2	0.3	0.7	0.7	3.7
Total Delay (hr)	0.5	1.8	0.3	3.3	6.6	0.0	1.3	1.5	1.9	2.9	0.3	1.5
Total Del/Veh (s)	32.8	14.0	10.5	48.8	33.1	3.3	81.1	72.1	75.2	60.7	66.4	32.9

24: Main St. & 108th Performance by movement

Movement	All
Denied Delay (hr)	0.9
Denied Del/Veh (s)	1.6
Total Delay (hr)	21.9
Total Del/Veh (s)	35.5

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Total Zone Performance

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Denied Delay (hr)	2.1
Denied Del/Veh (s)	1.9
Total Delay (hr)	97.9
Total Del/Veh (s)	1309.9

Arterial Level of Service: EB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Bel Way	9	73.4	81.5	0.1	3
	19	18.8	34.2	0.1	13
	24	10.7	25.7	0.1	18
Total		102.9	141.5	0.3	8

Arterial Level of Service: WB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
108th	24	33.1	51.2	0.1	10
106th	19	39.5	57.5	0.1	8
Bel Way	9	32.4	45.2	0.1	10
Total		105.0	154.0	0.4	9

# **ALTERNATIVE 2**

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## Main Street SimTraffic Performance Report



9: Bel Way & Main St. Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.1	0.0	0.0
Denied Del/Veh (s)	0.7	0.7	0.1	0.0	0.0	0.0	2.6	0.6	2.7	3.3	0.2	0.2
Total Delay (hr)	0.9	3.8	0.5	2.6	1.5	0.1	3.9	8.2	1.2	1.3	4.4	0.1
Total Del/Veh (s)	71.4	44.1	6.4	67.4	28.2	4.0	66.6	39.2	17.7	57.8	40.3	22.2

9: Bel Way & Main St. Performance by movement

Movement	All
Denied Delay (hr)	0.6
Denied Del/Veh (s)	0.8
Total Delay (hr)	28.5
Total Del/Veh (s)	37.5

19: Main St. & 106th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.4	0.1	0.0	0.5	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1
Total Delay (hr)	0.7	1.1	0.0	0.1	0.3	0.1	0.0	0.0	0.0	1.2	0.1	0.1
Total Del/Veh (s)	15.5	7.8	4.2	11.3	3.5	3.2	29.9	32.0	9.0	47.8	51.0	5.0

19: Main St. & 106th Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.1
Total Delay (hr)	3.9
Total Del/Veh (s)	10.0

24: Main St. & 108th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.5	0.1	0.2	0.2	0.2	0.3	0.4	0.3	0.4	0.1	0.1	0.1
Total Delay (hr)	0.3	1.9	0.6	1.8	1.3	0.5	0.7	2.6	1.8	0.5	0.1	0.1
Total Del/Veh (s)	21.5	15.4	12.2	44.7	12.2	9.9	47.6	49.5	49.3	50.7	37.7	4.8

24: Main St. & 108th Performance by movement

Movement	All
Denied Delay (hr)	0.1
Denied Del/Veh (s)	0.2
Total Delay (hr)	12.1
Total Del/Veh (s)	23.8

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Total Zone Performance

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Denied Delay (hr)	0.8
Denied Del/Veh (s)	0.9
Total Delay (hr)	44.4
Total Del/Veh (s)	1857.9

Arterial Level of Service: EB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Bel Way	9	44.0	52.8	0.1	4
	19	9.3	24.3	0.1	19
	24	14.8	29.3	0.1	16
Total		68.1	106.4	0.3	11

Arterial Level of Service: WB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
108th	24	12.2	25.9	0.1	16
106th	19	3.3	17.6	0.1	26
Bel Way	9	27.5	41.0	0.1	11
Total		43.0	84.5	0.4	16

9: Bel Way & Main St. Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.5	2.7	2.9	0.2	0.4
Total Delay (hr)	1.6	5.3	1.1	10.0	4.4	0.2	5.9	8.8	0.7	1.3	11.3	0.4
Total Del/Veh (s)	99.9	78.3	17.1	75.4	36.2	5.8	124.9	42.0	14.6	66.5	52.5	46.3

9: Bel Way & Main St. Performance by movement

Movement	All
Denied Delay (hr)	0.5
Denied Del/Veh (s)	0.5
Total Delay (hr)	51.1
Total Del/Veh (s)	51.8

19: Main St. & 106th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.3
Total Delay (hr)	0.6	1.1	0.0	0.1	3.4	0.2	0.1	0.0	0.0	2.8	0.1	2.8
Total Del/Veh (s)	31.8	9.9	5.5	21.4	15.8	5.9	48.4	34.5	11.0	44.9	54.4	37.2

19: Main St. & 106th Performance by movement

Movement	All
Denied Delay (hr)	0.0
Denied Del/Veh (s)	0.1
Total Delay (hr)	11.1
Total Del/Veh (s)	21.0

24: Main St. & 108th Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.3	0.3	0.2	0.2	0.2	0.3	0.7	1.1	3.6
Total Delay (hr)	0.3	1.8	0.4	2.8	2.0	0.1	0.8	1.1	1.4	3.3	0.3	0.8
Total Del/Veh (s)	22.6	14.0	11.0	40.5	10.7	5.6	48.2	51.3	53.3	71.7	73.2	16.8

24: Main St. & 108th Performance by movement

Movement	All
Denied Delay (hr)	0.3
Denied Del/Veh (s)	0.5
Total Delay (hr)	15.0
Total Del/Veh (s)	24.5

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Total Zone Performance

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Denied Delay (hr)	0.8
Denied Del/Veh (s)	0.7
Total Delay (hr)	77.2
Total Del/Veh (s)	1234.5

Arterial Level of Service: EB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Bel Way	9	77.7	85.8	0.1	3
	19	10.3	25.5	0.1	18
	24	11.1	26.3	0.1	18
Total		99.2	137.6	0.3	8

Arterial Level of Service: WB Main St.

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
108th	24	10.7	24.2	0.1	17
106th	19	15.5	30.8	0.1	15
Bel Way	9	36.3	49.3	0.1	9
Total		62.5	104.2	0.4	13