



Appendix M

Synchro 2035

Arterial LOS Reports

SR 21 Corridor Study
Phase I Final Report

No Build
Arterial LOS
2035

Arterial Level of Service: NB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Minus Avenue	I	45	94.9	24.5	119.4	1.19	35.8	B
Brampton Road	I	45	24.0	1.5	25.5	0.23	32.6	C
Bourne Avenue (SR 30	I	45	152.6	43.4	196.0	1.91	35.0	B
Grange Road	I	45	49.7	2.9	52.6	0.62	42.5	A
Crossgate Drive	I	50	59.0	24.4	83.4	0.82	35.4	B
Bonnybridge Road (SR	I	50	41.9	5.7	47.6	0.58	43.9	A
Jimmy DeLoach Parkwa	I	55	34.9	78.1	113.0	0.53	17.0	E
International Trade	I	55	76.5	7.2	83.7	1.17	50.3	A
O'Leary Road	I	55	55.9	8.6	64.5	0.85	47.6	A
I-95 Northbound On-R	I	45	14.3	54.9	69.2	0.14	7.1	F
I-95 Southbound Off-	I	45	13.2	7.7	20.9	0.13	21.8	D
Black Creek Drive	I	45	42.7	14.2	56.9	0.47	29.7	C
Total	I		659.6	273.1	932.7	8.64	33.3	C

Arterial Level of Service: SB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR 30	I	45	26.9	675.0	701.9	0.26	1.3	F
I-95 Southbound On-R	I	45	42.7	119.5	162.2	0.47	10.4	F
I-95 Northbound Off-	I	45	13.2	4.5	17.7	0.13	25.8	D
Pilot Truck Stop	I	45	14.3	13.2	27.5	0.14	18.0	E
	I	53	58.1	22.9	81.0	0.85	37.9	B
Jimmy DeLoach Parkwa	I	55	76.5	6.1	82.6	1.17	51.0	A
Bonnybridge Road (SR	I	50	38.4	1.8	40.2	0.53	47.7	A
Gulfstream Road	I	50	41.9	66.6	108.5	0.58	19.3	E
Grange Road	I	50	59.0	4.3	63.3	0.82	46.6	A
Bourne Avenue (SR 30	I	45	49.7	76.4	126.1	0.62	17.7	E
	I	45	152.6	6.4	159.0	1.91	43.2	A
Minus Avenue	I	45	24.0	9.7	33.7	0.23	24.7	D
Total	I		597.3	1006.4	1603.7	7.71	17.3	E

Arterial Level of Service: NB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Minus Avenue	I	45	94.9	65.3	160.2	1.19	26.7	D
Brampton Road	I	45	24.0	2.3	26.3	0.23	31.6	C
Bourne Avenue (SR 30	I	45	152.6	108.0	260.6	1.91	26.4	D
Grange Road	I	45	49.7	11.1	60.8	0.62	36.8	B
Crossgate Drive	I	50	59.0	49.3	108.3	0.82	27.2	C
Bonnybridge Road (SR	I	50	41.9	11.8	53.7	0.58	39.0	B
Jimmy DeLoach Parkwa	I	55	34.9	52.2	87.1	0.53	22.0	D
International Trade	I	55	76.5	33.0	109.5	1.17	38.4	B
O'Leary Road	I	55	55.9	30.9	86.8	0.85	35.4	B
I-95 Northbound On-R	I	45	14.3	474.3	488.6	0.14	1.0	F
I-95 Southbound Off-	I	45	13.2	380.8	394.0	0.13	1.2	F
Black Creek Drive	I	45	42.7	520.9	563.6	0.47	3.0	F
Total	I		659.6	1739.9	2399.5	8.64	13.0	F

Arterial Level of Service: SB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR 30	I	45	26.9	92.2	119.1	0.26	7.8	F
I-95 Southbound On-R	I	45	42.7	11.3	54.0	0.47	31.3	C
I-95 Northbound Off-	I	45	13.2	22.7	35.9	0.13	12.7	F
Pilot Truck Stop	I	45	14.3	41.0	55.3	0.14	8.9	F
	I	53	58.1	2.5	60.6	0.85	50.7	A
Jimmy DeLoach Parkwa	I	55	76.5	3.4	79.9	1.17	52.7	A
Bonnybridge Road (SR	I	50	38.4	1.5	39.9	0.53	48.1	A
Gulfstream Road	I	50	41.9	47.5	89.4	0.58	23.4	D
Grange Road	I	50	59.0	4.9	63.9	0.82	46.2	A
Bourne Avenue (SR 30	I	45	49.7	74.6	124.3	0.62	18.0	E
	I	45	152.6	3.6	156.2	1.91	44.0	A
Minus Avenue	I	45	24.0	25.2	49.2	0.23	16.9	E
Total	I		597.3	330.4	927.7	7.71	29.9	C

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Arterial LOS
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Arterial Level of Service: NB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Minus Avenue	I	45	94.9	19.5	114.4	1.19	37.4	B
Brampton Road	I	45	24.0	8.4	32.4	0.23	25.7	D
Bourne Avenue (SR 30	I	45	152.6	40.2	192.8	1.91	35.6	B
Grange Road	I	45	49.7	2.8	52.5	0.62	42.6	A
Crossgate Drive	I	50	59.0	15.4	74.4	0.82	39.7	B
Bonnybridge Road (SR	I	50	41.9	14.1	56.0	0.58	37.4	B
Jimmy DeLoach Parkwa	I	55	34.9	32.3	67.2	0.53	28.6	C
International Trade	I	55	76.5	12.8	89.3	1.17	47.1	A
	I	55	45.9	14.2	60.1	0.70	42.0	B
O'Leary Road	I	55	14.8	0.1	14.9	0.15	36.7	B
I-95 Northbound On-R	I	45	14.3	24.1	38.4	0.14	12.9	F
I-95 Southbound Off-	I	45	13.2	7.5	20.7	0.13	22.0	D
Black Creek Drive	I	45	42.7	45.2	87.9	0.47	19.2	E
Total	I		664.4	236.6	901.0	8.64	34.5	B

Arterial Level of Service: SB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR 30	I	45	26.9	55.6	82.5	0.26	11.3	F
I-95 Southbound On-R	I	45	42.7	31.4	74.1	0.47	22.8	D
I-95 Northbound Off-	I	45	13.2	6.4	19.6	0.13	23.3	D
Pilot Truck Stop	I	45	14.3	0.2	14.5	0.14	34.1	B
Hendley Road	I	45	15.8	18.7	34.5	0.15	15.9	F
	I	55	45.9	9.4	55.3	0.70	45.6	A
Jimmy DeLoach Parkwa	I	55	76.5	6.1	82.6	1.17	51.0	A
Bonnybridge Road (SR	I	50	38.4	6.0	44.4	0.53	43.2	A
Gulfstream Road	I	50	41.9	38.7	80.6	0.58	26.0	D
Grange Road	I	50	59.0	4.1	63.1	0.82	46.8	A
Bourne Avenue (SR 30	I	45	49.7	51.3	101.0	0.62	22.2	D
	I	45	152.6	4.2	156.8	1.91	43.8	A
Minus Avenue	I	45	24.0	13.5	37.5	0.23	22.2	D
Total	I		600.9	245.6	846.5	7.71	32.8	C

Arterial Level of Service: NB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Minus Avenue	I	45	94.9	17.0	111.9	1.19	38.2	B
Brampton Road	I	45	24.0	1.6	25.6	0.23	32.5	C
Bourne Avenue (SR 30	I	45	152.6	31.1	183.7	1.91	37.4	B
Grange Road	I	45	49.7	6.9	56.6	0.62	39.5	B
Crossgate Drive	I	50	59.0	25.8	84.8	0.82	34.8	B
Bonnybridge Road (SR	I	50	41.9	13.6	55.5	0.58	37.7	B
Jimmy DeLoach Parkwa	I	55	34.9	20.4	55.3	0.53	34.7	B
International Trade	I	55	76.5	8.1	84.6	1.17	49.8	A
	I	55	45.9	7.8	53.7	0.70	47.0	A
O'Leary Road	I	55	14.8	0.1	14.9	0.15	36.7	B
I-95 Northbound On-R	I	45	14.3	75.4	89.7	0.14	5.5	F
I-95 Southbound Off-	I	45	13.2	1.7	14.9	0.13	30.6	C
Black Creek Drive	I	45	42.7	6.2	48.9	0.47	34.6	B
Total	I		664.4	215.7	880.1	8.64	35.3	B

Arterial Level of Service: SB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR 30	I	45	26.9	29.9	56.8	0.26	16.4	E
I-95 Southbound On-R	I	45	42.7	9.8	52.5	0.47	32.2	C
I-95 Northbound Off-	I	45	13.2	16.7	29.9	0.13	15.3	F
Pilot Truck Stop	I	45	14.3	0.0	14.3	0.14	34.6	B
Hendley Road	I	45	15.8	23.5	39.3	0.15	13.9	F
	I	55	45.9	2.9	48.8	0.70	51.7	A
Jimmy DeLoach Parkwa	I	55	76.5	5.6	82.1	1.17	51.3	A
Bonnybridge Road (SR	I	50	38.4	5.4	43.8	0.53	43.8	A
Gulfstream Road	I	50	41.9	27.6	69.5	0.58	30.1	C
Grange Road	I	50	59.0	4.3	63.3	0.82	46.6	A
Bourne Avenue (SR 30	I	45	49.7	45.0	94.7	0.62	23.6	D
	I	45	152.6	1.4	154.0	1.91	44.6	A
Minus Avenue	I	45	24.0	13.8	37.8	0.23	22.0	D
Total	I		600.9	185.9	786.8	7.71	35.3	B

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Arterial LOS
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Arterial Level of Service: NB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Minus Avenue	I	45	94.9	15.7	110.6	1.19	38.6	B
Brampton Road	I	45	24.0	4.4	28.4	0.23	29.3	C
NB EL Off Ramp	I	45	141.8	5.3	147.1	1.77	43.4	A
Bourne Avenue (SR 30	I	45	14.1	36.5	50.6	0.14	9.6	F
	I	45	25.3	0.9	26.2	0.24	33.4	C
Grange Road	I	45	35.6	2.8	38.4	0.38	35.5	B
Crossgate Drive	I	50	59.0	16.4	75.4	0.82	39.1	B
Bonnybridge Road (SR	I	50	41.9	12.6	54.5	0.58	38.4	B
Jimmy DeLoach Parkwa	I	55	34.9	26.0	60.9	0.53	31.5	C
International Trade	I	55	76.5	14.9	91.4	1.17	46.1	A
O'Leary Connector	I	55	45.9	7.4	53.3	0.70	47.4	A
I-95 Northbound On-R	I	50	27.5	18.2	45.7	0.29	22.8	D
I-95 Southbound Off-	I	45	13.2	0.5	13.7	0.13	33.3	C
Black Creek Drive	I	45	42.7	16.8	59.5	0.47	28.4	C
Total	I		677.3	178.4	855.7	8.64	36.3	B

Arterial Level of Service: SB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR 30	I	45	26.9	65.3	92.2	0.26	10.1	F
I-95 Southbound On-R	I	45	42.7	30.6	73.3	0.47	23.1	D
I-95 Northbound Off-	I	45	13.2	2.5	15.7	0.13	29.1	C
Hendley Road	I	45	28.6	9.8	38.4	0.29	27.1	C
International Trade	I	55	45.9	8.2	54.1	0.70	46.7	A
Jimmy DeLoach Parkwa	I	55	76.5	9.7	86.2	1.17	48.8	A
Bonnybridge Road (SR	I	50	38.4	3.2	41.6	0.53	46.1	A
Gulfstream Road	I	50	41.9	30.1	72.0	0.58	29.1	C
Grange Road	I	50	59.0	3.9	62.9	0.82	46.9	A
	I	45	35.6	17.2	52.8	0.38	25.8	D
Bourne Avenue (SR 30	I	45	25.3	22.9	48.2	0.24	18.1	E
SB EL On-Ramp	I	45	14.1	5.6	19.7	0.14	24.7	D
Brampton	I	45	141.8	6.6	148.4	1.77	43.0	A
Minus Avenue	I	45	24.0	11.5	35.5	0.23	23.4	D
Total	I		613.9	227.1	841.0	7.71	33.0	C

Arterial Level of Service: NB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Minus Avenue	I	45	94.9	14.9	109.8	1.19	38.9	B
Brampton Road	I	45	24.0	5.2	29.2	0.23	28.5	C
NB EL Off Ramp	I	45	141.8	5.3	147.1	1.77	43.4	A
Bourne Avenue (SR 30	I	45	14.1	53.6	67.7	0.14	7.2	F
	I	45	25.3	0.4	25.7	0.24	34.0	B
Grange Road	I	45	35.6	5.3	40.9	0.38	33.3	C
Crossgate Drive	I	50	59.0	59.0	118.0	0.82	25.0	D
Bonnybridge Road (SR	I	50	41.9	14.1	56.0	0.58	37.4	B
Jimmy DeLoach Parkwa	I	55	34.9	32.0	66.9	0.53	28.7	C
International Trade	I	55	76.5	9.3	85.8	1.17	49.1	A
O'Leary Connector	I	55	45.9	6.3	52.2	0.70	48.4	A
I-95 Northbound On-R	I	50	27.5	77.8	105.3	0.29	9.9	F
I-95 Southbound Off-	I	45	13.2	13.0	26.2	0.13	17.4	E
Black Creek Drive	I	45	42.7	65.8	108.5	0.47	15.6	F
Total	I		677.3	362.0	1039.3	8.64	29.9	C

Arterial Level of Service: SB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR 30	I	45	26.9	27.1	54.0	0.26	17.3	E
I-95 Southbound On-R	I	45	42.7	11.3	54.0	0.47	31.3	C
I-95 Northbound Off-	I	45	13.2	42.9	56.1	0.13	8.1	F
Hendley Road	I	45	28.6	13.5	42.1	0.29	24.7	D
International Trade	I	55	45.9	4.0	49.9	0.70	50.6	A
Jimmy DeLoach Parkwa	I	55	76.5	4.9	81.4	1.17	51.7	A
Bonnybridge Road (SR	I	50	38.4	3.4	41.8	0.53	45.9	A
Gulfstream Road	I	50	41.9	36.6	78.5	0.58	26.6	D
Grange Road	I	50	59.0	3.5	62.5	0.82	47.2	A
	I	45	35.6	11.0	46.6	0.38	29.3	C
Bourne Avenue (SR 30	I	45	25.3	20.0	45.3	0.24	19.3	E
SB EL On-Ramp	I	45	14.1	5.6	19.7	0.14	24.7	D
Brampton	I	45	141.8	5.4	147.2	1.77	43.4	A
Minus Avenue	I	45	24.0	10.6	34.6	0.23	24.0	D
Total	I		613.9	199.8	813.7	7.71	34.1	B

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Arterial LOS
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Arterial Level of Service: NB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Minus Avenue	I	45	94.9	22.0	116.9	1.19	36.6	B
Brampton Road	I	45	24.0	9.1	33.1	0.23	25.1	D
Bourne Avenue (SR 30	I	45	152.6	27.2	179.8	1.91	38.2	B
Grange Road	I	45	49.7	4.0	53.7	0.62	41.7	B
Crossgate Drive	I	50	59.0	14.8	73.8	0.82	40.0	B
Bonnybridge Road (SR	I	50	41.9	9.5	51.4	0.58	40.7	B
Jimmy DeLoach Parkwa	I	55	34.9	36.3	71.2	0.53	27.0	D
International Trade	I	55	76.5	14.7	91.2	1.17	46.2	A
	I	55	45.9	9.6	55.5	0.70	45.5	A
I-95 Northbound On-R	I	50	27.5	18.4	45.9	0.29	22.7	D
I-95 Southbound Off-	I	45	13.2	8.9	22.1	0.13	20.6	E
Black Creek Drive	I	45	42.7	16.8	59.5	0.47	28.4	C
Total	I		662.8	191.3	854.1	8.64	36.4	B

Arterial Level of Service: SB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR 30	I	45	26.9	55.7	82.6	0.26	11.3	F
I-95 Southbound On-R	I	45	42.7	25.6	68.3	0.47	24.8	D
I-95 Northbound Off-	I	45	13.2	5.5	18.7	0.13	24.4	D
Hendley Road	I	45	28.6	11.6	40.2	0.29	25.9	D
	I	55	45.9	7.8	53.7	0.70	47.0	A
Jimmy DeLoach Parkwa	I	55	76.5	8.0	84.5	1.17	49.8	A
Bonnybridge Road (SR	I	50	38.4	1.8	40.2	0.53	47.7	A
Gulfstream Road	I	50	41.9	28.1	70.0	0.58	29.9	C
Grange Road	I	50	59.0	5.6	64.6	0.82	45.7	A
Bourne Avenue (SR 30	I	45	49.7	60.3	110.0	0.62	20.3	E
	I	45	152.6	5.0	157.6	1.91	43.6	A
Minus Avenue	I	45	24.0	19.3	43.3	0.23	19.2	E
Total	I		599.4	234.3	833.7	7.71	33.3	C

Arterial Level of Service: NB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Minus Avenue	I	45	94.9	17.1	112.0	1.19	38.2	B
Brampton Road	I	45	24.0	1.7	25.7	0.23	32.4	C
Bourne Avenue (SR 30	I	45	152.6	25.1	177.7	1.91	38.7	B
Grange Road	I	45	49.7	7.0	56.7	0.62	39.5	B
Crossgate Drive	I	50	59.0	20.2	79.2	0.82	37.3	B
Bonnybridge Road (SR	I	50	41.9	12.6	54.5	0.58	38.4	B
Jimmy DeLoach Parkwa	I	55	34.9	46.5	81.4	0.53	23.6	D
International Trade	I	55	76.5	7.8	84.3	1.17	49.9	A
	I	55	45.9	5.7	51.6	0.70	48.9	A
I-95 Northbound On-R	I	50	27.5	63.9	91.4	0.29	11.4	F
I-95 Southbound Off-	I	45	13.2	8.6	21.8	0.13	20.9	E
Black Creek Drive	I	45	42.7	19.5	62.2	0.47	27.2	C
Total	I		662.8	235.7	898.5	8.64	34.6	B

Arterial Level of Service: SB SR 21

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR 30	I	45	26.9	38.8	65.7	0.26	14.2	F
I-95 Southbound On-R	I	45	42.7	3.8	46.5	0.47	36.4	B
I-95 Northbound Off-	I	45	13.2	30.8	44.0	0.13	10.4	F
Hendley Road	I	45	28.6	20.6	49.2	0.29	21.2	D
	I	55	45.9	3.2	49.1	0.70	51.4	A
Jimmy DeLoach Parkwa	I	55	76.5	6.6	83.1	1.17	50.7	A
Bonnybridge Road (SR	I	50	38.4	2.3	40.7	0.53	47.2	A
Gulfstream Road	I	50	41.9	45.7	87.6	0.58	23.9	D
Grange Road	I	50	59.0	4.8	63.8	0.82	46.3	A
Bourne Avenue (SR 30	I	45	49.7	64.3	114.0	0.62	19.6	E
	I	45	152.6	2.4	155.0	1.91	44.3	A
Minus Avenue	I	45	24.0	13.1	37.1	0.23	22.4	D
Total	I		599.4	236.4	835.8	7.71	33.2	C