Notes and Assumptions:

AM Peak is 8am to 9am

PM peak is 5pm tp 6pm

IP is off peak between 9am and 5pm

The Bus speeds have been drvied from real time passenger information for the citi 4 service during the respective peak periods

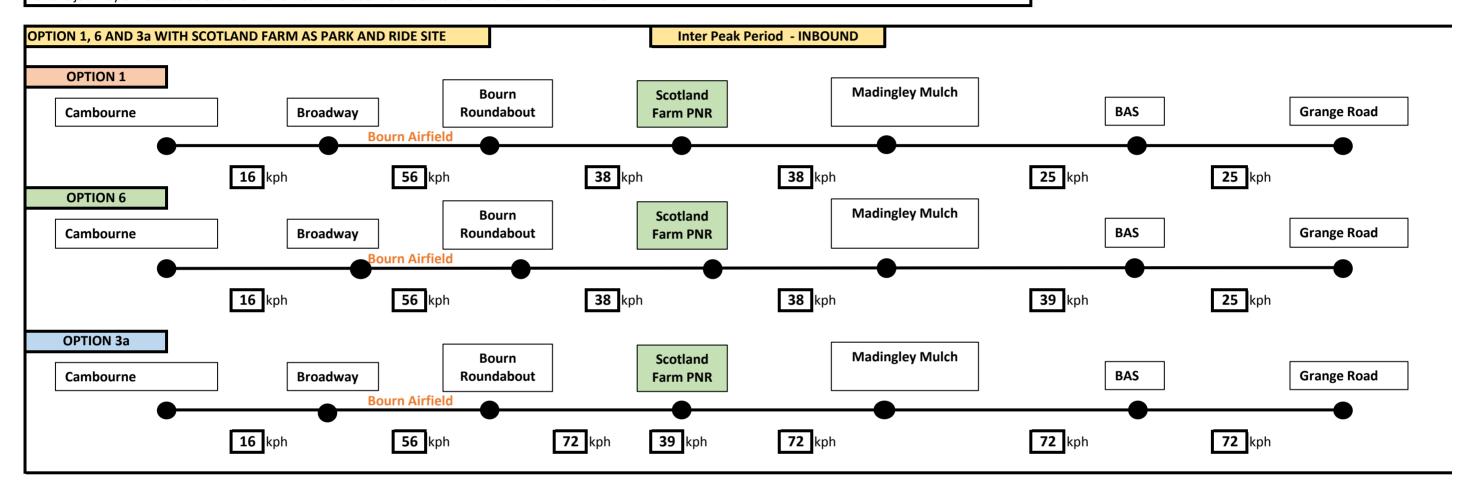
The following diagrams show the average bus speeds between stops/destinations which includes acceleration and decceleration

The bus speeds assumed through Bourn Airfield have been derived taking an average of urban and rural CGB speeds 39 and 72 which gives 56kph

The agreed route is between Cambourne High Street and Grange Road

For the journey times an average dwell time of 30 seconds ha been assumed at each stop.

For the journey time calculations the final times have been rounded to the nearest whole number



Bus Speed assumptions (Kph):	INBOUND			OUTBOUND			
Type of bus infrastructure:	AM	IP	PM	AM	IP	PM	
Bus lane	25	25	23	25	25	23	
On-road: Cambourne	16	16	16	9	10	10	
On-road: St Neots Road	39	38	38	57	55	54	
Madingley Road (Hill)	19	39	43	47	54	42	
Madingley Road (East of M11)	22	25	22	23	28	26	
Rural busway	72	72	72	72	72	72	
Urban busway	39	39	39	39	39	39	
NOTE:							

Resulting Journey Times		Option 1			Option 6			Option 3a			
INBOUND	Dist	Kph	JT	Dist	Kph	JT	Dist	Kph	JT		
Cambourne to Broadway	1.69	16	6	1.69	16	6	1.69	16	6		
Broadway to Bourn Rnbt	2.10	56	2	2.10	56	2	2.10	56	2		
Bourn Rbt to Scotland Farm P&R	1.61	38	3	1.61	38	3	1.36	72	2		
Scotland Farm P&R to Madingley Mulch	3.06	38	5	3.06	38	5	3.18	72	3		
Madingley Mulch to BAS	3.00	25	7	3.00	39	5	2.50	72	2		
BAS to Grange Road	1.77	25	4	1.77	25	4	1.49	72	1		
Total journey time without factoring stops			27			25			17		
Total journey times including dwell times:			30	mins		27	mins		19	mi	
Note: Dist = distance in KM; kph = kilometers per hour; JT = journey time in minutes											

Notes and Assumptions:

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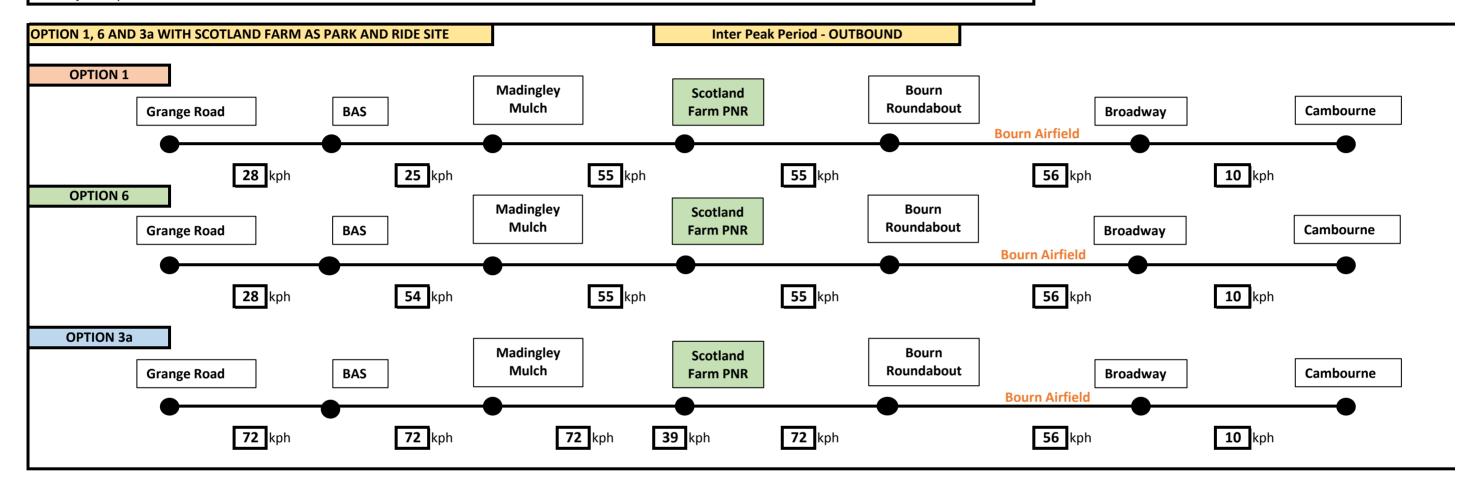
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Bus Speed assumptions (Kph):	IN	INBOUND			OUTBOUND			
Type of bus infrastructure:	AM	IP	PM	AM	IP	PM		
Bus lane	25	25	23	25	25	23		
On-road: Cambourne	16	16	16	10	10	10		
On-road: St Neots Road	39	38	38	55	55	54		
Madingley Road (Hill)	19	39	43	54	54	42		
Madingley Road (East of M11)	22	25	22	28	28	26		
Rural busway	72	72	72	72	72	72		
Urban busway	39	39	39	39	39	39		
NOTE:				-		-		
AM Peak is 8am to 9am								

IP is off peak between 9am and 5pm

PM peak is 5pm tp 6pm

Dist	Kph	17						
,	KPII	JT	Dist	Kph	JT	Dist	Kph	JT
1.77	28	4	1.77	28	4	2.02	72	2
3.00	25	7	3.00	54	3	2.50	72	2
3.06	55	3	3.06	55	3	3.18	72	3
1.29	55	1	1.29	55	1	1.36	72	2
2.10	56	2	2.10	56	2	2.10	56	2
1.69	10	10	1.69	10	10	1.69	10	10
		28			24			21
		31	mins		27	mins		24
	3.00 3.06 1.29 2.10	3.00 25 3.06 55 1.29 55 2.10 56	3.00 25 7 3.06 55 3 1.29 55 1 2.10 56 2 1.69 10 10	3.00 25 7 3.00 3.06 55 3 3.06 1.29 55 1 1.29 2.10 56 2 2.10 1.69 10 10 1.69	3.00 25 7 3.00 54 3.06 55 3 3.06 55 1.29 55 1 1.29 55 2.10 56 2 2.10 56 1.69 10 10 1.69 10	3.00 25 7 3.00 54 3 3.06 55 3 3.06 55 3 1.29 55 1 1.29 55 1 2.10 56 2 2.10 56 2 1.69 10 10 1.69 10 10	3.00 25 7 3.00 54 3 2.50 3.06 55 3 3.06 55 3 3.18 1.29 55 1 1.29 55 1 1.36 2.10 56 2 2.10 56 2 2.10 1.69 10 10 1.69 10 10 1.69	3.00 25 7 3.00 54 3 2.50 72 3.06 55 3 3.06 55 3 3.18 72 1.29 55 1 1.29 55 1 1.36 72 2.10 56 2 2.10 56 2 2.10 56 1.69 10 10 1.69 10 10 1.69 10

Dwell Time Calcula	ations
Assumed dwell per stop	0.5
Based on:	5
Total dwell time:	2.5

Notes and Assumptions:

The Bus speeds have been drvied from real time passenger information for the citi 4 service during the respective peak periods

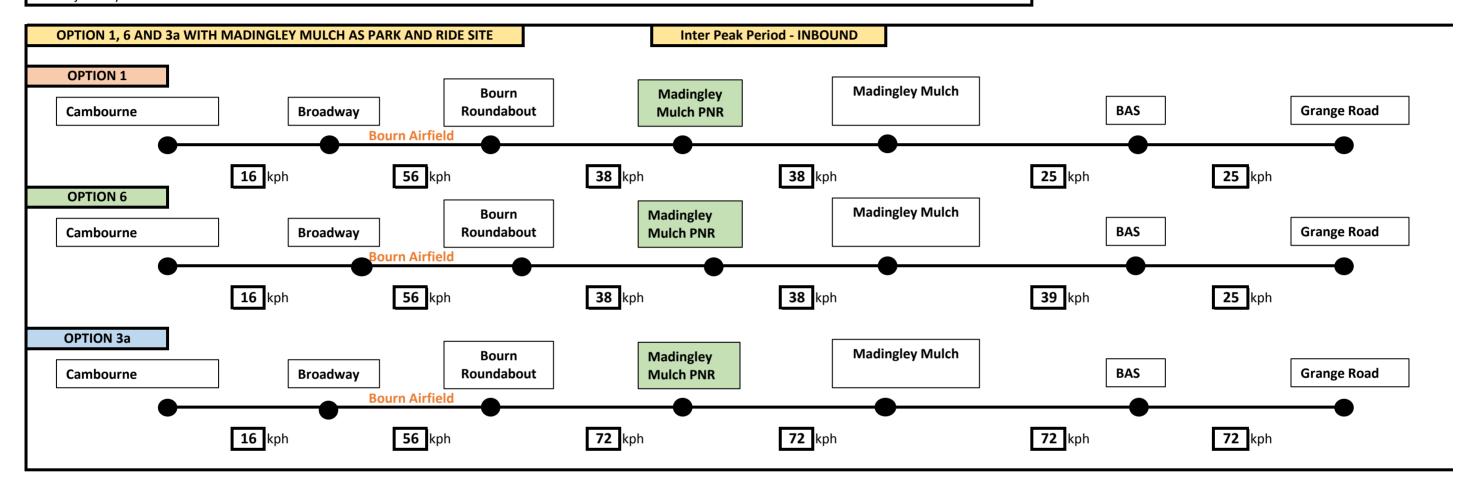
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Bus Speed assumptions (Kph):	INBOUND			OU	JND	
Type of bus infrastructure:	AM	IP	PM	AM	IP	PM
Bus lane	25	25	23	25	25	23
On-road: Cambourne	16	16	16	10	10	10
On-road: St Neots Road	39	38	38	55	55	54
Madingley Road (Hill)	19	39	43	54	54	42
Madingley Road (East of M11)	22	25	22	28	28	26
Rural busway	72	72	72	72	72	72
Urban busway	39	39	39	39	39	39
NOTE:						
AM Peak is 8am to 9am						

IP is off peak between 9am and 5pm

PM peak is 5pm tp 6pm

Resulting Journey Times	Option 1		Option 6			Option 3a				
INBOUND	Dist	Kph	JT	Dist	Kph	JT	Dist	Kph	JT	
Cambourne to Broadway	1.69	16	6	1.69	16	6	1.69	16	6	
Broadway to Bourn Rnbt	2.10	56	2	2.10	56	2	2.10	56	2	
Bourn Rbt to Hardwick Roundabout	1.45	38	2	1.45	38	2	1.36	72	1	
Hardwick Roundabout to Madingley Mulch P&R	2.90	38	5	2.90	38	5	3.18	72	3	
Madingley Mulch P&R to BAS	2.70	25	6	2.70	39	4	2.50	72	2	
BAS to Grange Road	1.77	25	4	1.77	25	4	2.02	72	2	
Total journey time without factoring stops			26			24			16	
Total journey times including dwell times: 29 mins 26 mins 19 mins										
Note: Dist = distance in KM; kph = kilometers per hour; JT = journey time in minutes										

Dwell Time Calcula	ations
Assumed dwell per stop	0.5
Based on:	5
Total dwell time:	2.5

Notes and Assumptions:

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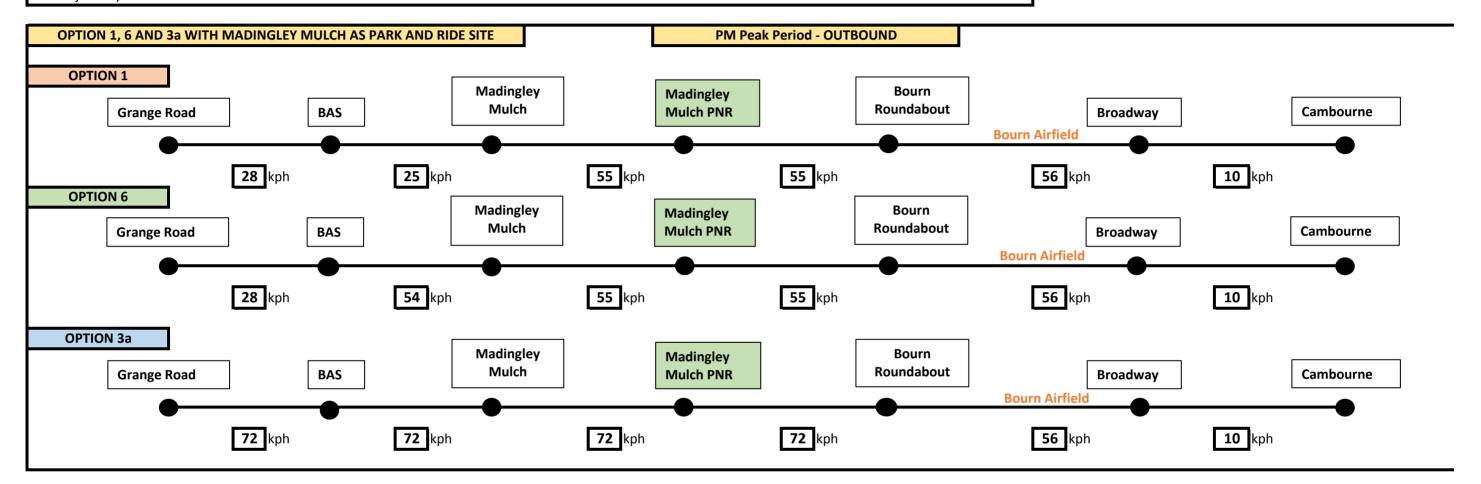
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Bus Speed assumptions (Kph):	IN	INBOUND			OUTBOUND			
Type of bus infrastructure:	AM	IP	PM	AM	IP	PM		
Bus lane	25	25	23	25	25	23		
On-road: Cambourne	16	16	16	10	10	10		
On-road: St Neots Road	39	38	38	55	55	54		
Madingley Road (Hill)	19	39	43	54	54	42		
Madingley Road (East of M11)	22	25	22	28	28	26		
Rural busway	72	72	72	72	72	72		
Urban busway	39	39	39	39	39	39		
NOTE:								
AM Peak is 8am to 9am								

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PM peak is 5pm tp 6pm

Resulting Journey Times		Option 1		Option 6			Option 3a			Г
OUTBOUND	Dist	Kph	JT	Dist	Kph	JT	Dist	Kph	JT	l
Grange Road to BAS	1.77	28	4	1.77	28	4	2.02	72	2	
BAS to Madingley Mulch	2.70	25	6	2.70	54	3	2.50	72	2	
Madingley Mulch P&R to Hardwick Roundabout	2.90	55	3	2.90	55	3	3.18	72	3	
Hardwick Roundabout to Bourn Roundabout	1.45	55	2	1.45	55	2	1.36	72	1	
Bourn Roundabout to Broadway	2.10	56	2	2.10	56	2	2.10	56	2	
Broadway to Cambourne High Street	1.69	10	10	1.69	10	10	1.69	10	10	
Total journey time without factoring stops			27			24			20	
Total journey times including dwell times: 30 mins 26 mins 22 mins										
Note: Dist = distance in KM; kph = kilometers per hour; JT = journey time in minutes										

Dwell Time Calcula	ations
Assumed dwell per stop	0.5
Based on:	5
Total dwell time:	2.5

Notes and Assumptions:

The Bus speeds have been drvied from real time passenger information for the citi 4 service during the respective peak periods

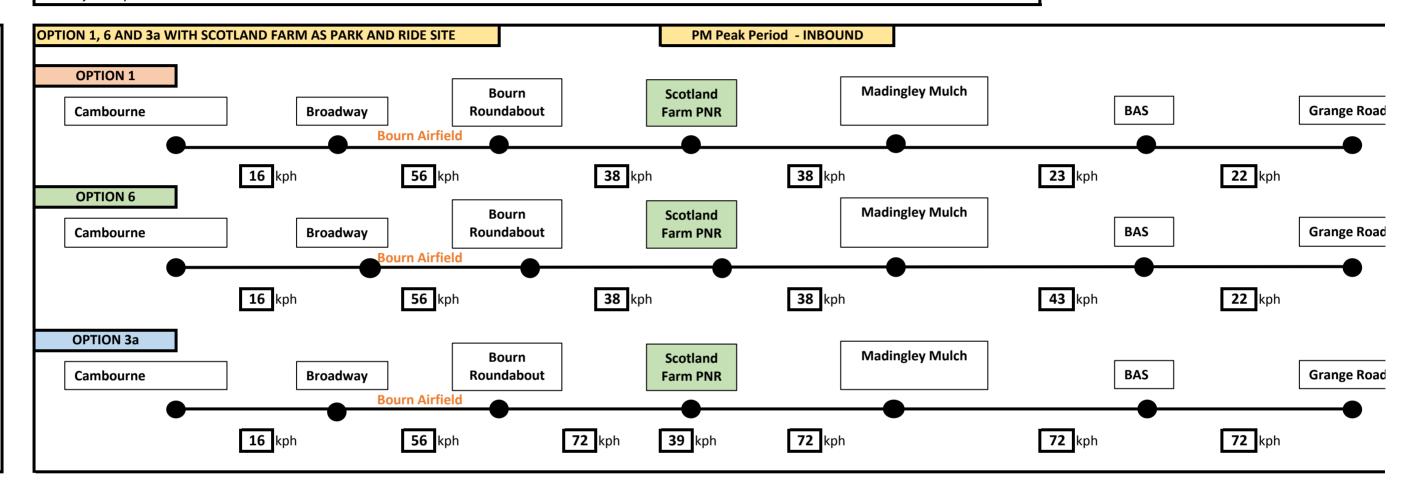
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:	Bus Speed assumptions (Kph):	IN	IBOUI	ND	OUTBOUND			
mins	Type of bus infrastructure:	AM	ΙP	PM	AM	IP	PM	
stops	Bus lane	25	25	23	25	25	23	
mins	On-road: Cambourne	16	16	16	9	10	10	
	On-road: St Neots Road	39	38	38	57	55	54	
	Madingley Road (Hill)	19	39	43	47	54	42	
	Madingley Road (East of M11)	22	25	22	23	28	26	
	Rural busway	72	72	72	72	72	72	
	Urban busway	39	39	39	39	39	39	
	NOTE:						-	
	AM Peak is 8am to 9am							
	IP is off peak between 9am and 5pm							

PM peak is 5pm tp 6pm

Resulting Journey Times		Option 1		Option 6			Option 3a		
INBOUND	Dist	Kph	JT	Dist	Kph	JT	Dist	Kph	JT
Cambourne to Broadway	1.69	16	6	1.69	16	6	1.69	16	6
Broadway to Bourn Rnbt	2.10	56	2	2.10	56	2	2.10	56	2
Bourn Rbt to Scotland Farm P&R	1.61	38	3	1.61	38	3	1.29	72	1
Scotland Farm P&R to Madingley Mulch	3.06	38	5	3.06	38	5	2.73	72	2
Madingley Mulch to BAS	3.00	23	8	3.00	43	4	2.50	72	2
BAS to Grange Road	1.77	22	5	1.77	22	5	1.49	72	1
Total journey time without factoring stops			29			25			15
T-4-1 :			24	1		27	1		10
Total journey times including dwell times:			31	mins		27	mins		18
Note: Dist = distance in KM; kph = kilometers p	er houi	r; JT = j	ourney time	in mii	nutes				

Dwell Time
Assumed dwell per st
Based on:
Total dwell time:

Notes and Assumptions:

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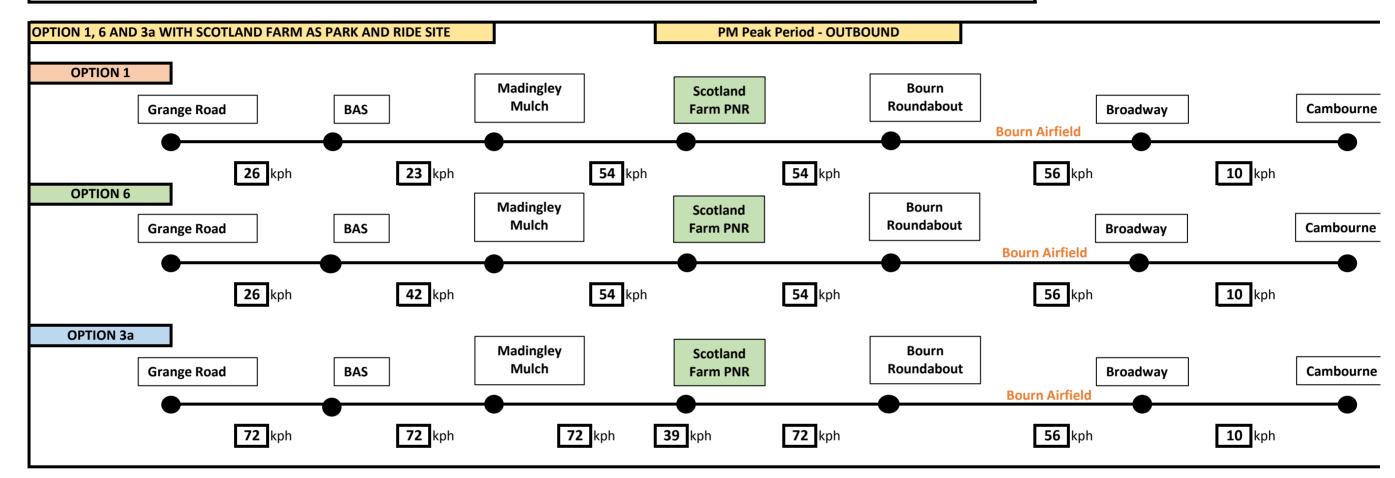
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:	Bus Speed assumptions (Kph):	IN	BOU	ND	ΟU	TBOL	JND
mins	Type of bus infrastructure:	AM	IP	PM	AM	IP	PM
stops	Bus lane	25	25	23	25	25	23
mins	On-road: Cambourne	16	16	16	10	10	10
	On-road: St Neots Road	39	38	38	55	55	54
	Madingley Road (Hill)	19	39	43	54	54	42
	Madingley Road (East of M11)	22	25	22	28	28	26
	Rural busway	72	72	72	72	72	72
	Urban busway	39	39	39	39	39	39
	NOTE:			•			
	AM Peak is 8am to 9am						
	IP is off peak between 9am and 5pm						
	PM peak is 5pm tp 6pm						

Resulting Journey Times		Opti	on 1	(Option	6	0	Option 3a		
OUTBOUND	Dist	Kph	JT	Dist	Kph	JT	Dist	Kph	JT	
Grange Road to BAS	1.77	26	4	1.77	26	4	2.02	72	2	
BAS to Madingley Mulch	3.00	23	8	3.00	42	4	2.50	72	2	
Madingley Mulch to Scotland Farm P&R	3.06	54	3	3.06	54	3	3.18	72	3	
Scotland Farm P&R to Bourn Roundabout	1.29	54	1	1.29	54	1	1.36	72	2	
Bourn Roundabout to Broadway	2.10	56	2	2.10	56	2	2.10	56	2	
Broadway to Cambourne High Street	1.69	10	10	1.69	10	10	1.69	10	10	
Total journey time without factoring stops			29			26			21	
			•					•		
Total journey times including dwell times:			32	mins		28	mins		24	
Note: Dist = distance in KM; kph = kilometers p	er houi	r; JT = j	ourney time	in mii	nutes					

Notes and Assumptions:

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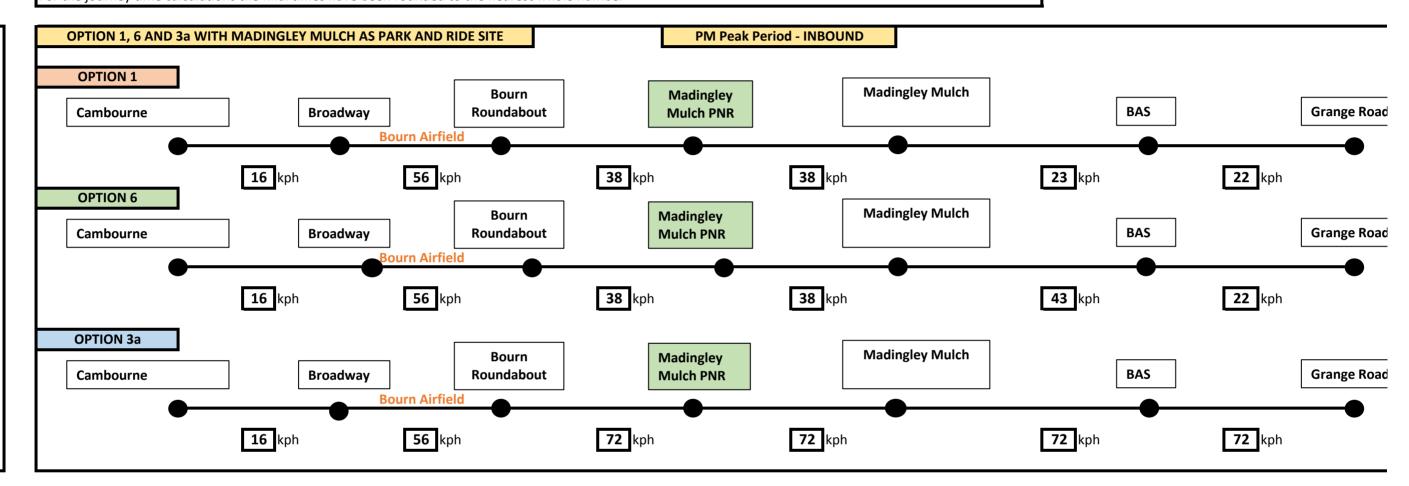
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mins	Type of bus infrastructure:	AM	IP	PM	AM	IP	PM
stops	Bus lane	25	25	23	25	25	23
mins	On-road: Cambourne	16	16	16	10	10	10
	On-road: St Neots Road	39	38	38	55	55	54
	Madingley Road (Hill)	19	39	43	54	54	42
	Madingley Road (East of M11)	22	25	22	28	28	26
	Rural busway	72	72	72	72	72	72
	Urban busway	39	39	39	39	39	39
	NOTE:			•			
	AM Peak is 8am to 9am						
	IP is off peak between 9am and 5pm						

PM peak is 5pm tp 6pm

Dist	Kph	JT	Dist	Kph	JT	D:at	I/la	
4.00			1 2.50	Khii	ונ	Dist	Kph	JT
1.69	16	6	1.69	16	6	1.69	16	6
2.10	56	2	2.10	56	2	2.10	56	2
1.45	38	2	1.45	38	2	1.36	72	1
2.90	38	5	2.90	38	5	3.18	72	3
2.70	23	7	2.70	43	4	2.50	72	2
1.77	22	5	1.77	22	5	2.02	72	2
		27			24			16
		30	mins		26	mins		19
	1.45 2.90 2.70	1.45 38 2.90 38 2.70 23	1.45 38 2 2.90 38 5 2.70 23 7 1.77 22 5	1.45 38 2 1.45 2.90 38 5 2.90 2.70 23 7 2.70 1.77 22 5 1.77	1.45 38 2 1.45 38 2.90 38 5 2.90 38 2.70 23 7 2.70 43 1.77 22 5 1.77 22	1.45 38 2 1.45 38 2 2.90 38 5 2.90 38 5 2.70 23 7 2.70 43 4 1.77 22 5 1.77 22 5	1.45 38 2 1.45 38 2 1.36 2.90 38 5 2.90 38 5 3.18 2.70 23 7 2.70 43 4 2.50 1.77 22 5 1.77 22 5 2.02	1.45 38 2 1.45 38 2 1.36 72 2.90 38 5 2.90 38 5 3.18 72 2.70 23 7 2.70 43 4 2.50 72 1.77 22 5 1.77 22 5 2.02 72

Dwell Time
Assumed dwell per st
Based on:
Total dwell time:

Notes and Assumptions:

The Bus speeds have been drvied from real time passenger information for the citi 4 service during the respective peak periods

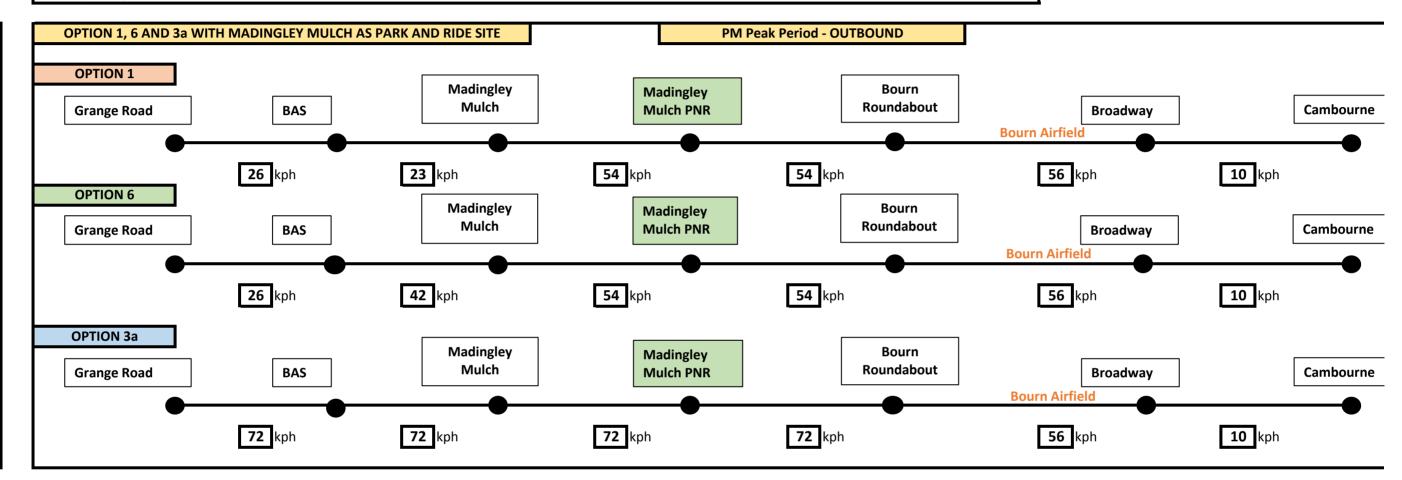
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:	Bus Speed assumptions (Kph):	IN	BOU	ND	OU	TBOL	JND
mins	Type of bus infrastructure:	AM	IP	PM	AM	IP	PM
stops	Bus lane	25	25	23	25	25	23
mins	On-road: Cambourne	16	16	16	10	10	10
	On-road: St Neots Road	39	38	38	55	55	54
	Madingley Road (Hill)	19	39	43	54	54	42
	Madingley Road (East of M11)	22	25	22	28	28	26
	Rural busway	72	72	72	72	72	72
	Urban busway	39	39	39	39	39	39
	NOTE:			•			•
	AM Peak is 8am to 9am						
	IP is off peak between 9am and 5pm						

PM peak is 5pm tp 6pm

Kph 26 23 54 56 10	JT 4 7 3 2 2 10	1.77 2.70 2.90 1.45 2.10	Kph 26 42 54 54 56 10	JT 4 4 3 2 2 10	2.02 2.50 3.18 1.36 2.10 1.69	72 72 72 72 72 56	JT 2 2 3 1 2 10
23 54 54 56	7 3 2 2	2.70 2.90 1.45 2.10	42 54 54 56	4 3 2 2	2.50 3.18 1.36 2.10	72 72 72 72 56	2 3 1 2
54 54 56	3 2 2	2.90 1.45 2.10	54 54 56	3 2 2	3.18 1.36 2.10	72 72 56	3 1 2
54 56	2	1.45 2.10	54 56	2	1.36 2.10	72 56	1 2
56	2	2.10	56	2	2.10	56	2
				H-	_		
10	10	1.69	10	10	1.69	10	10
	28			25			20
[31	mins		28	mins		22
				31 mins T = journey time in minutes			

Dwell Time
Assumed dwell per st
Based on:
Total dwell time: