

Appendix 10
Vehicle Trip Gravity Model
Traffic Flow Diagrams



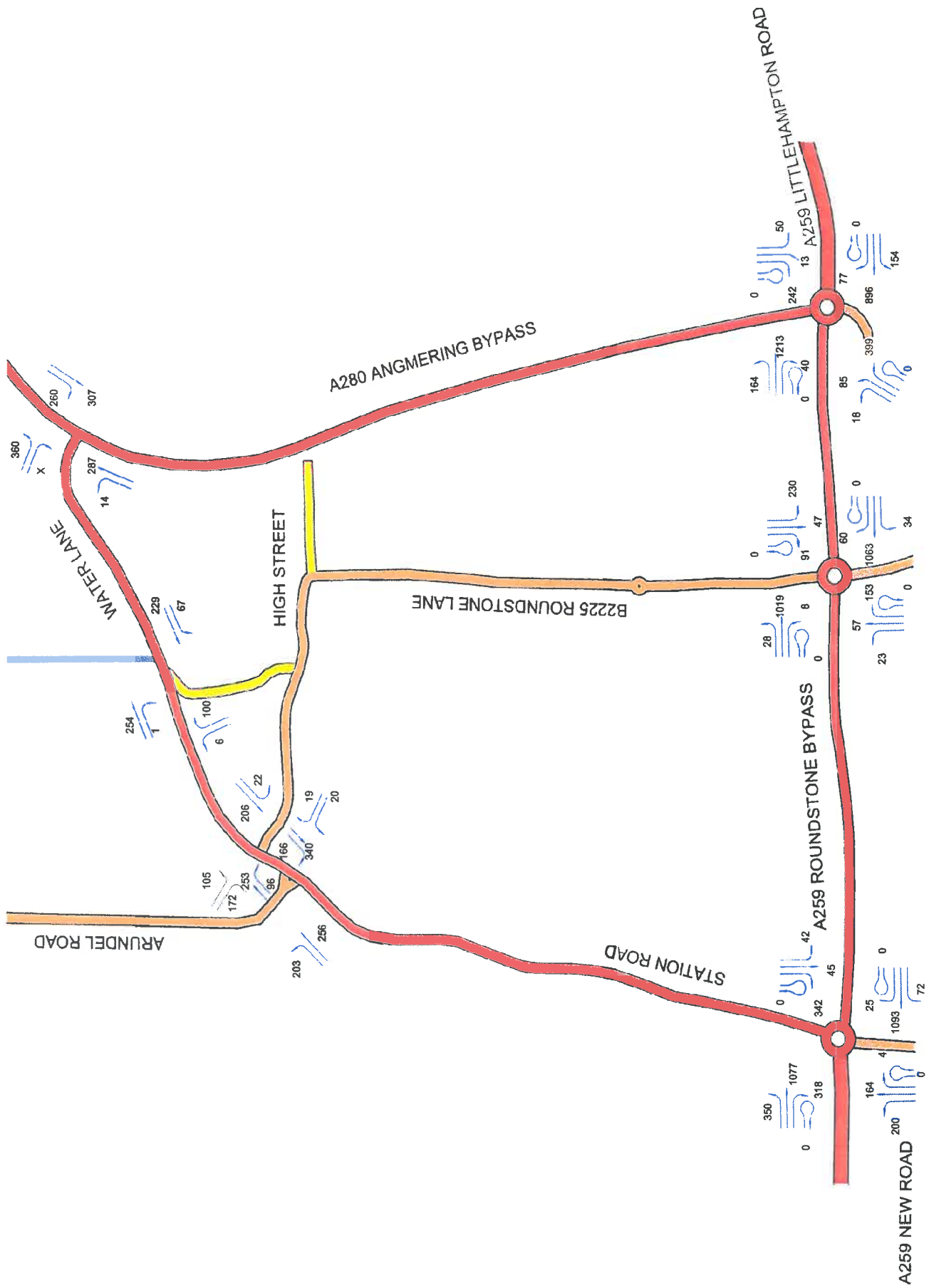
Distance Travelled to Work	
Less than 2km	599 23.4%
2 - 5km	354 21.6%
5 - 10km	648 23.3%
10 - 20km	245 9.6%
20 - 30km	214 8.4%
30 - 40km	81 3.4%
Over 40km	239 9.3%

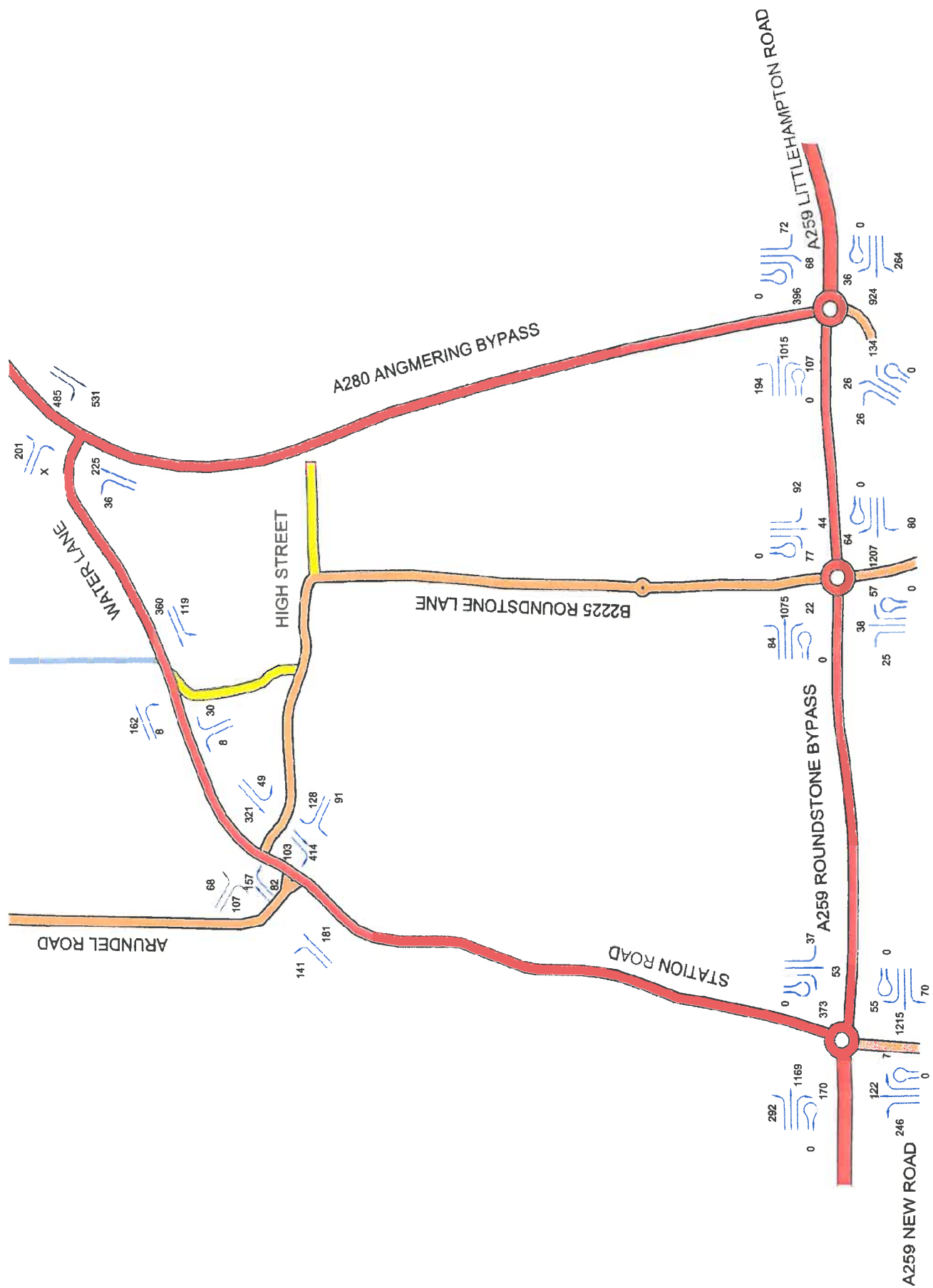
Zone		% of Catchment	% of Residents to Employment Catchment
Less than 2km	A	386 ha	88.5%
	B	50 ha	11.5%
	C	436 ha	23.4%
	D	1,629 ha	54.6%
2 - 5km	E	2,351 ha	21.6%
	F	244 ha	12.9%
	F	1,402 ha	77.4%
	G	183 ha	9.7%
5 - 10km	H	1,729 ha	23.3%
	I	239 ha	4.7%
	J	521 ha	10.7%
	K	143 ha	2.8%
10 - 20km	L	263 ha	5.1%
	M	112 ha	2.2%
	N	387 ha	7.6%
	O	1,720 ha	33.6%
20 - 30km	P	5,112 ha	9.8%
	Q	157 ha	2.2%
	R	806 ha	11.4%
	S	182 ha	1.0%
30 - 40km	T	231 ha	2.6%
	U	231 ha	3.3%
	V	820 ha	11.6%
	W	735 ha	10.4%
Over 40km	X	324 ha	4.6%
	Y	3,192 ha	45.2%
	Z	3,192 ha	45.2%
	AA	429 ha	6.1%
West North East	BB	7,056 ha	8.4%
	CC	1,489 ha	4.3%
	DD	1,017 ha	14.0%
	EE	1,017 ha	14.0%
West North East	FF	977 ha	8.7%
	GG	977 ha	8.7%
	HH	507 ha	5.0%
	II	507 ha	5.0%
West North East	JJ	235 ha	2.3%
	KK	235 ha	2.3%
	LL	234 ha	2.3%
	MM	234 ha	2.3%
West North East	NN	453 ha	4.5%
	OO	453 ha	4.5%
	PP	2,139 ha	21.1%
	QQ	2,139 ha	21.1%
West North East	RR	941 ha	9.3%
	SS	941 ha	9.3%
	TT	402 ha	4.8%
	UU	402 ha	4.8%
West North East	VV	81 ha	0.9%
	WW	81 ha	0.9%
	XX	221 ha	2.2%
	YY	221 ha	2.2%
West North East	ZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
West North East	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
West North East	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
West North East	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
West North East	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
West North East	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
West North East	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
West North East	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
West North East	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
West North East	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
West North East	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
West North East	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
West North East	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
West North East	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
West North East	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
West North East	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
West North East	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
West North East	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
West North East	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
West North East	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
West North East	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
West North East	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
West North East	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
West North East	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
West North East	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
West North East	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
West North East	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
West North East	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
West North East	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
West North East	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
West North East	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
West North East	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
West North East	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
West North East	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
West North East	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
West North East	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
West North East	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
West North East	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
West North East	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
West North East	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
West North East	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
West North East	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
West North East	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
West North East	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
West North East	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
West North East	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
West North East	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
West North East	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
West North East	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
West North East	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
West North East	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
West North East	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
West North East	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
West North East	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
West North East	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
West North East	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
West North East	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
West North East	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
West North East	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
West North East	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
West North East	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
West North East	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
West North East	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
West North East	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
West North East	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
West North East	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
West North East	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
West North East	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
West North East	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
West North East	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
West North East	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
West North East	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
West North East	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
West North East	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
West North East	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%
	LLL	1,085 ha	10.7%
	MMM	1,085 ha	10.7%
West North East	NNN	1,085 ha	10.7%
	OOO	1,085 ha	10.7%
	PPP	1,085 ha	10.7%
	QQQ	1,085 ha	10.7%
West North East	RRR	1,085 ha	10.7%
	SSS	1,085 ha	10.7%
	TTT	1,085 ha	10.7%
	UUU	1,085 ha	10.7%
West North East	VVV	1,085 ha	10.7%
	WWW	1,085 ha	10.7%
	XXX	1,085 ha	10.7%
	YYY	1,085 ha	10.7%
West North East	ZZZ	1,085 ha	10.7%
	AAA	1,085 ha	10.7%
	BBB	1,085 ha	10.7%
	CCC	1,085 ha	10.7%
West North East	DDD	1,085 ha	10.7%
	EEE	1,085 ha	10.7%
	FFF	1,085 ha	10.7%
	GGG	1,085 ha	10.7%
West North East	HHH	1,085 ha	10.7%
	III	1,085 ha	10.7%
	JJJ	1,085 ha	10.7%
	KKK	1,085 ha	10.7%



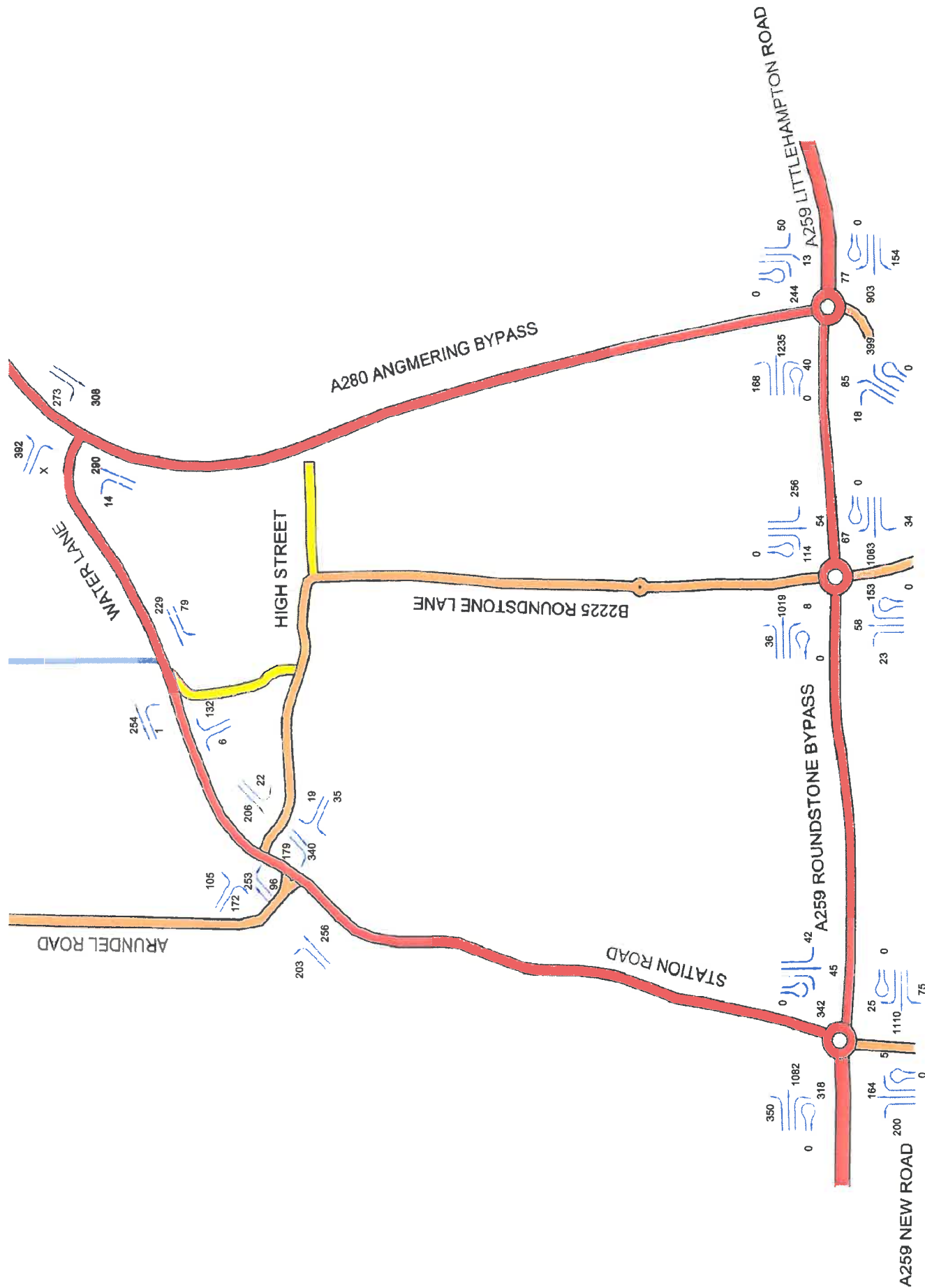


Post Travel Plan Development Flows
AM Peak Hour
 10% Reduction in Private Car Trips due to Travel Plan

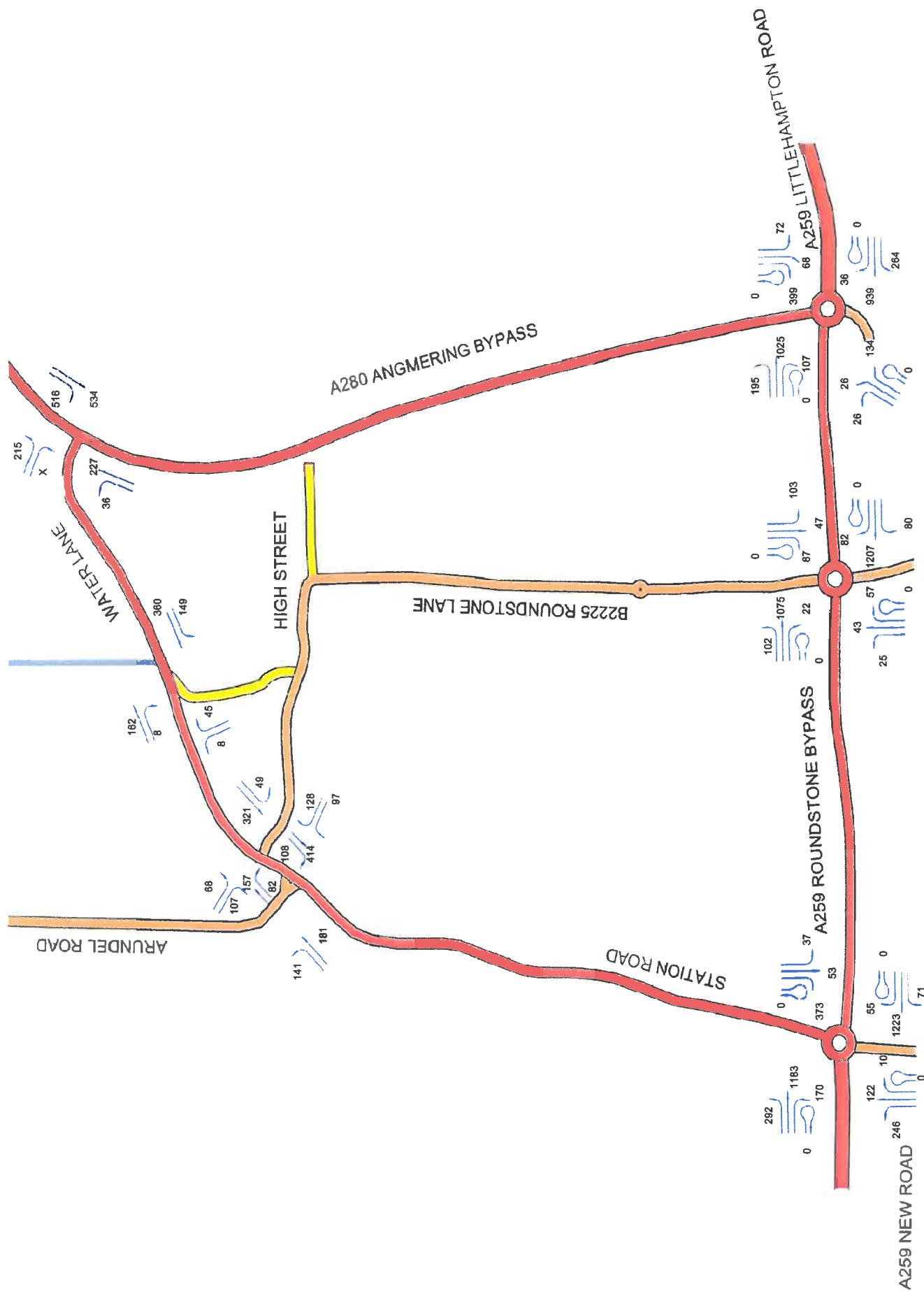




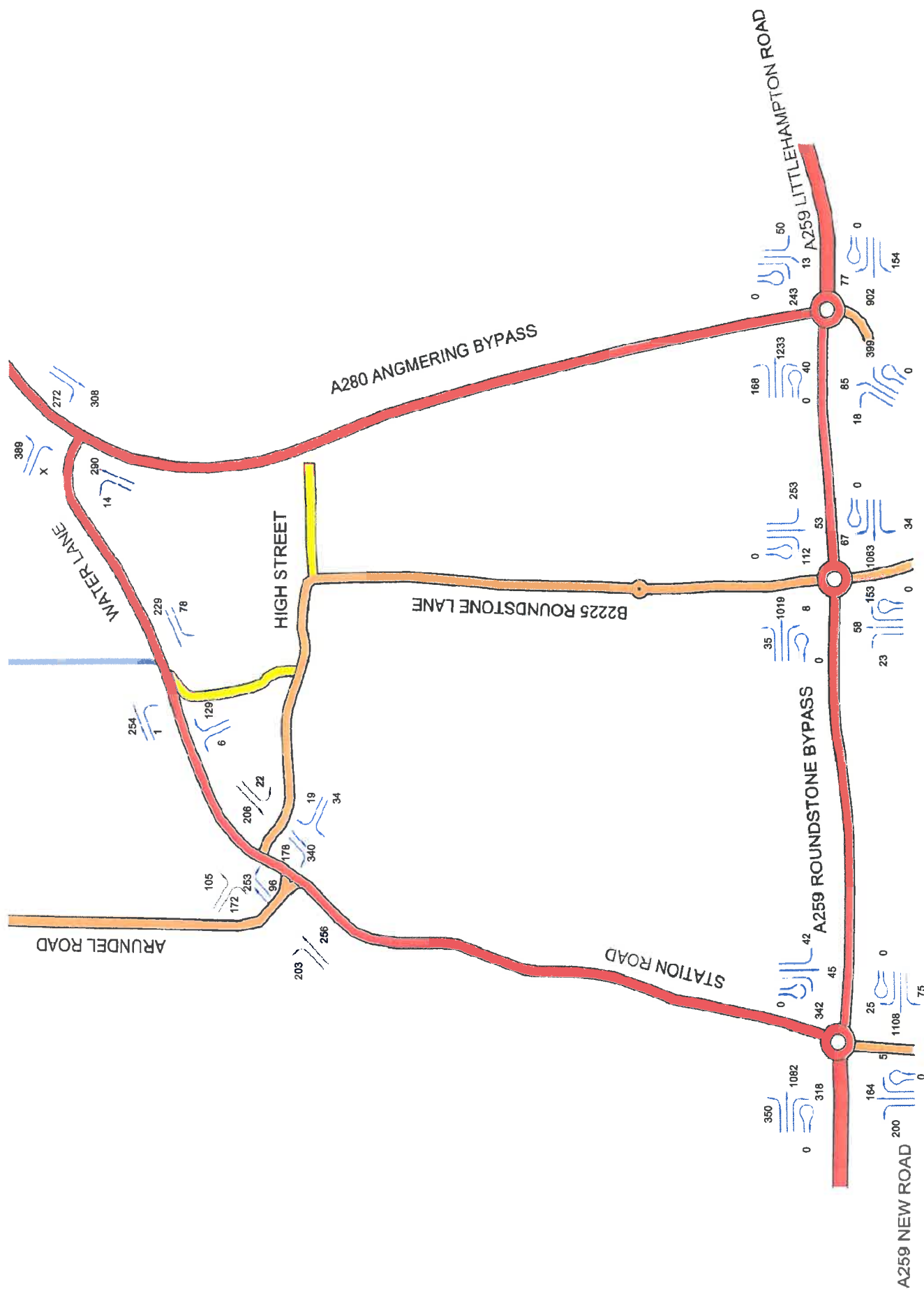
**2013 Predicted Base Flows
PM Peak Hour**

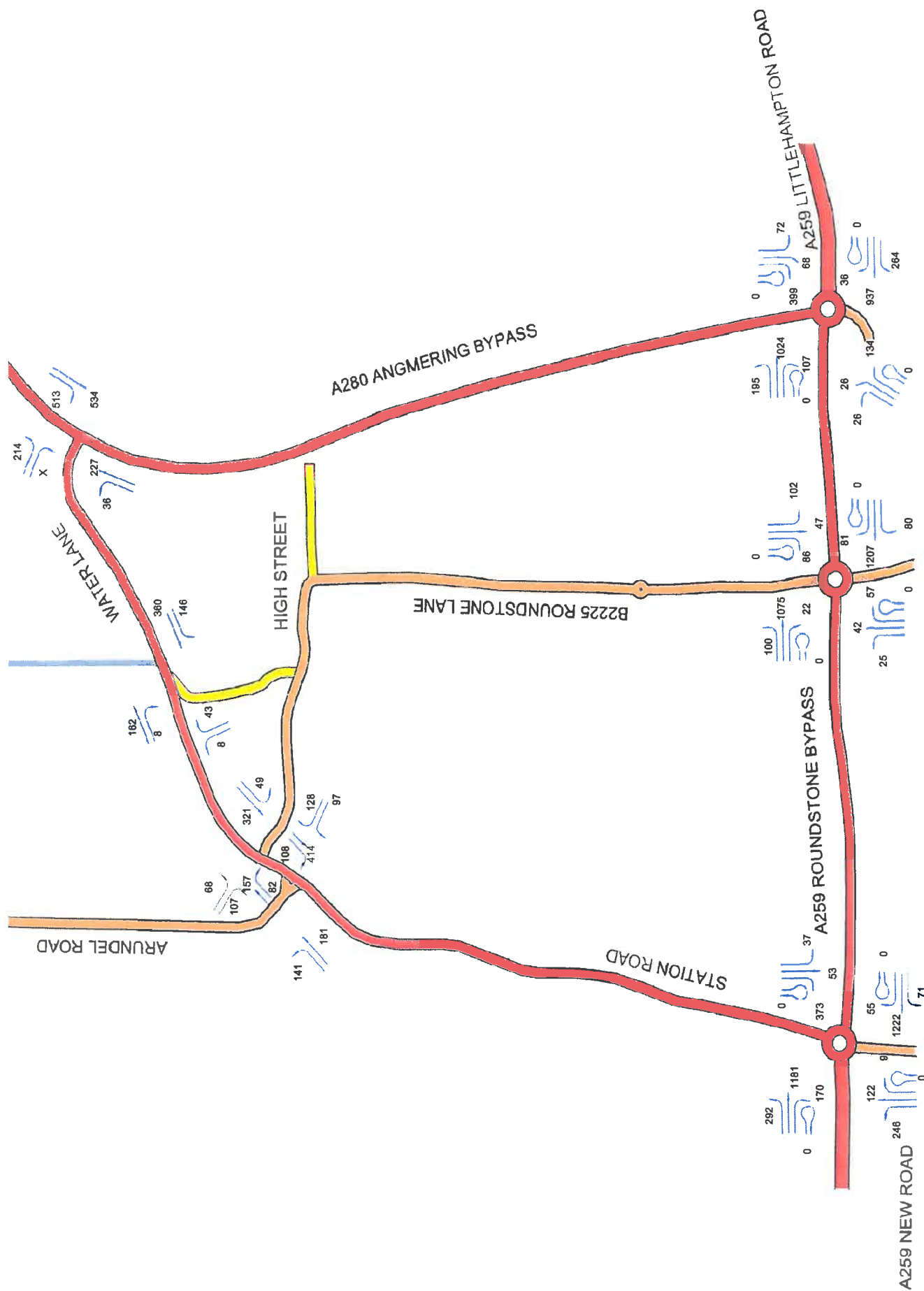


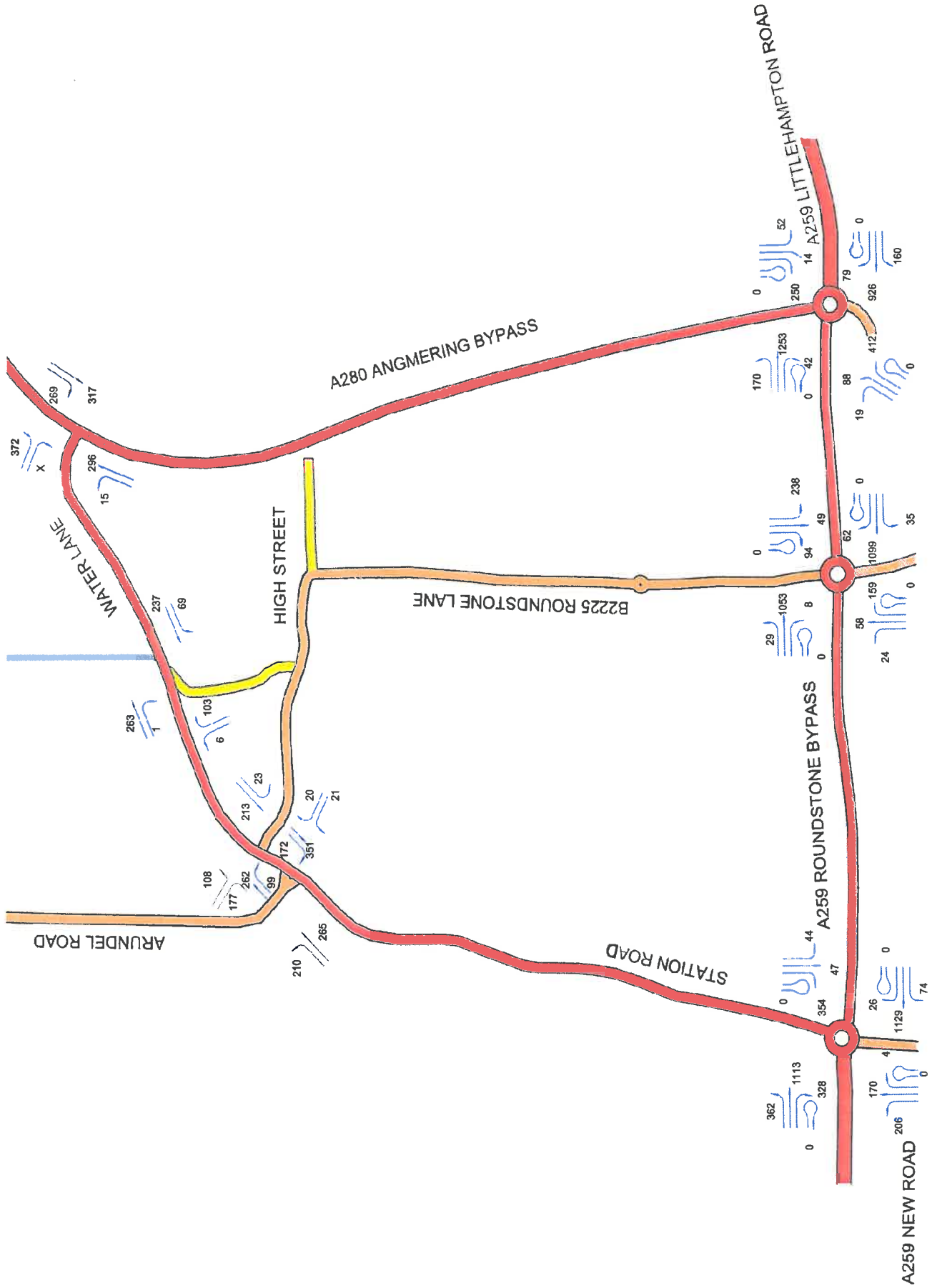
2013 Pre Travel Plan Predicted Flows
AM Peak Hour



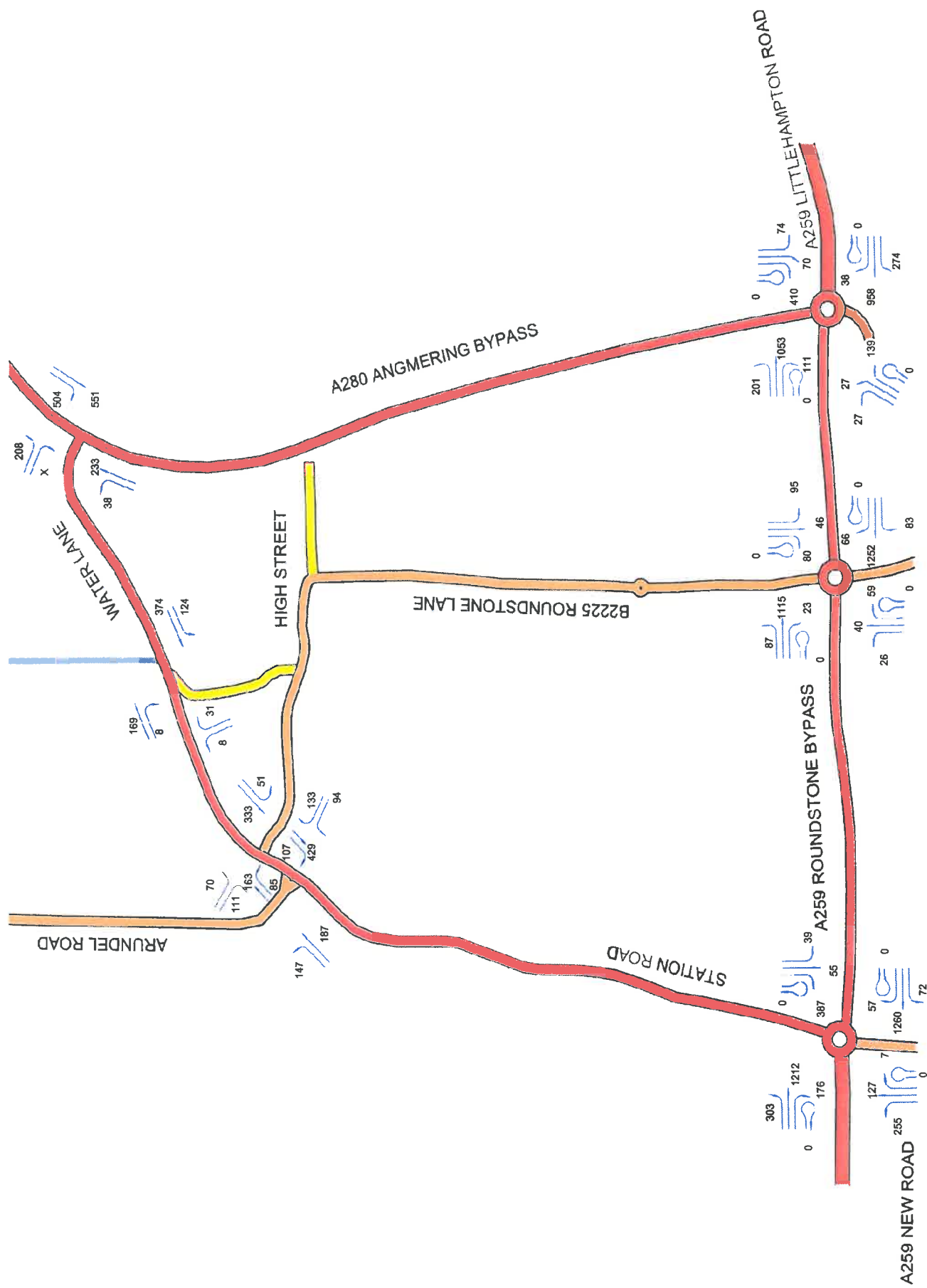
**2013 Pre Travel Plan Predicted Flows
PM Peak Hour**

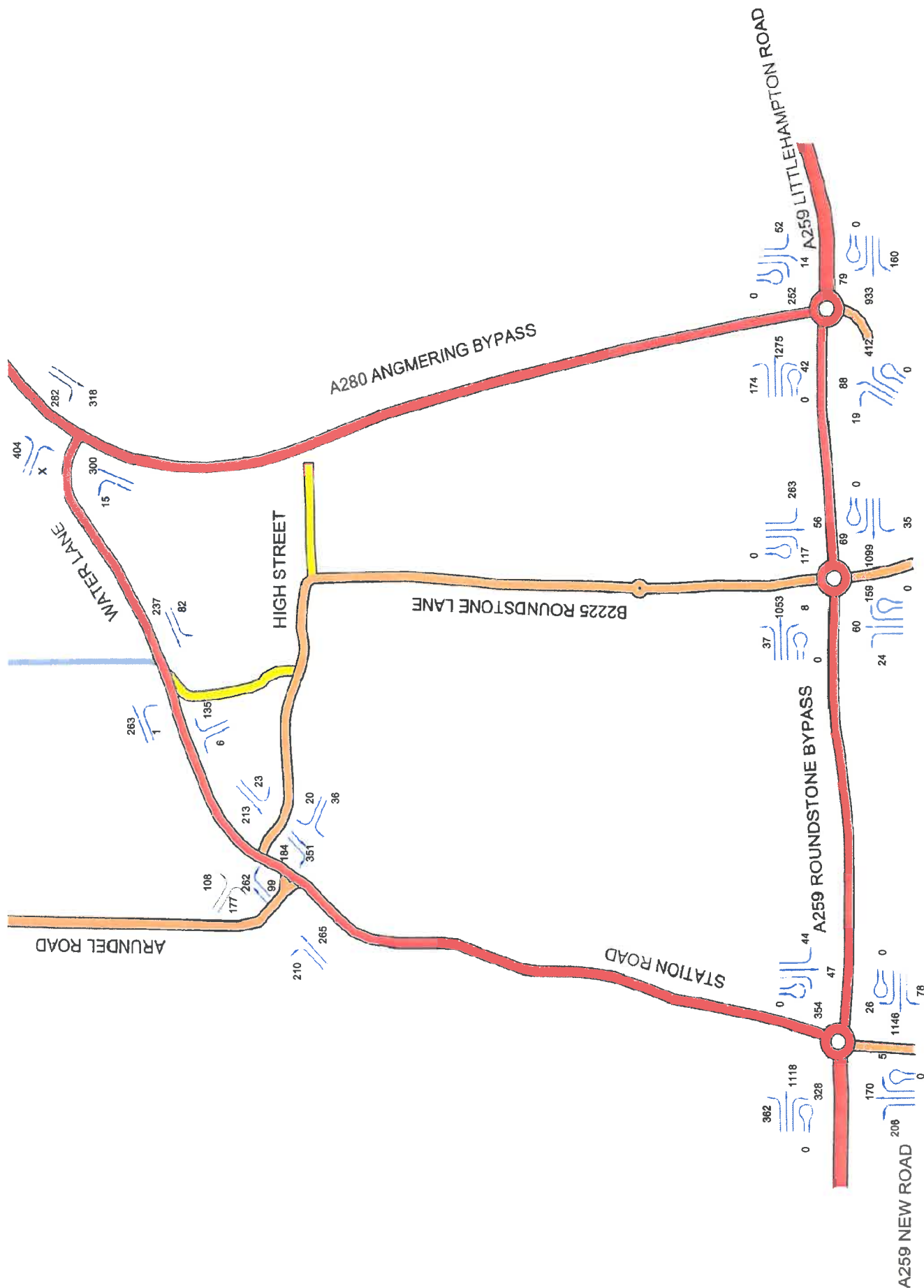




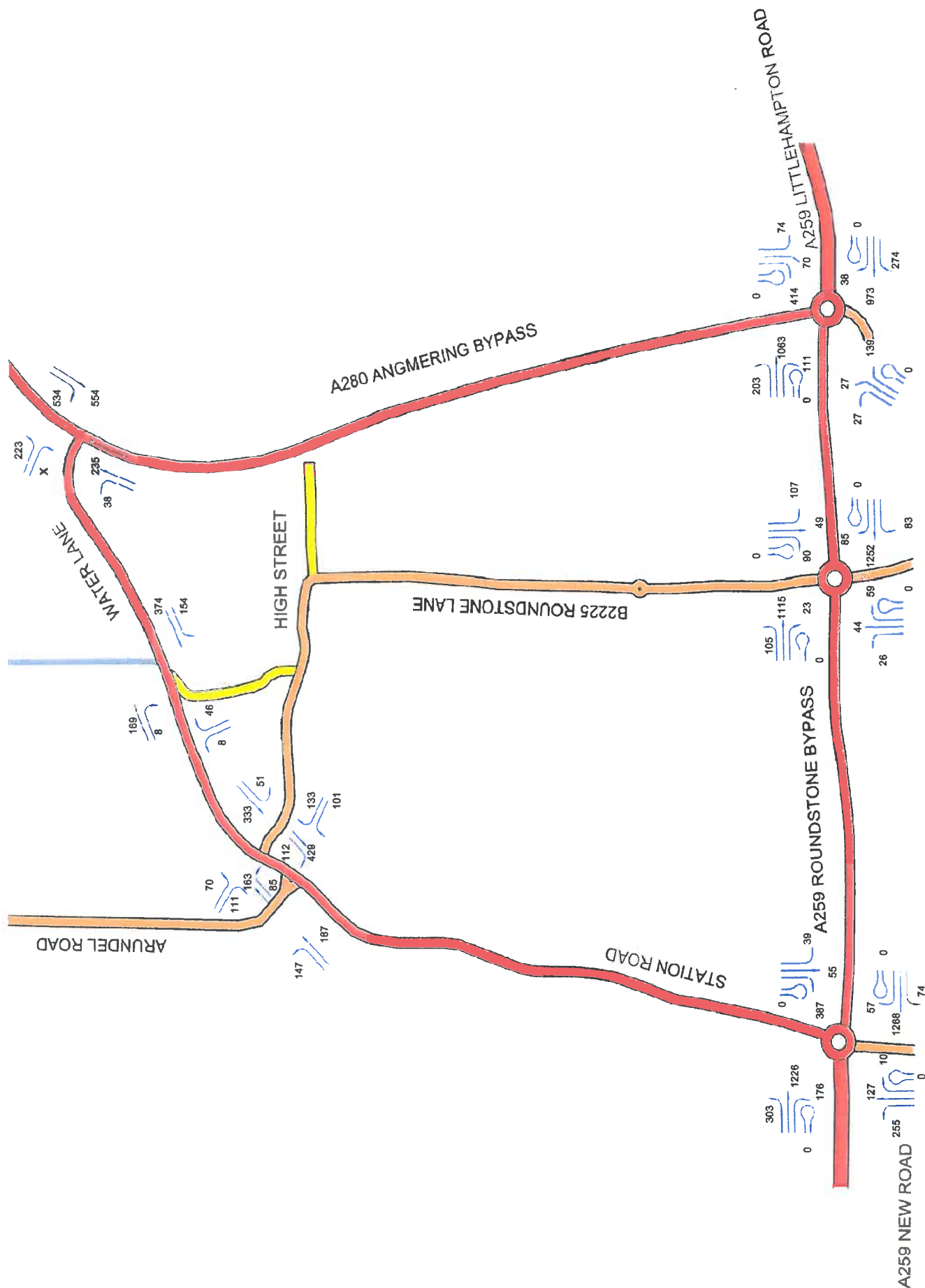


2017 Future Year Base Flows
AM Peak Hour

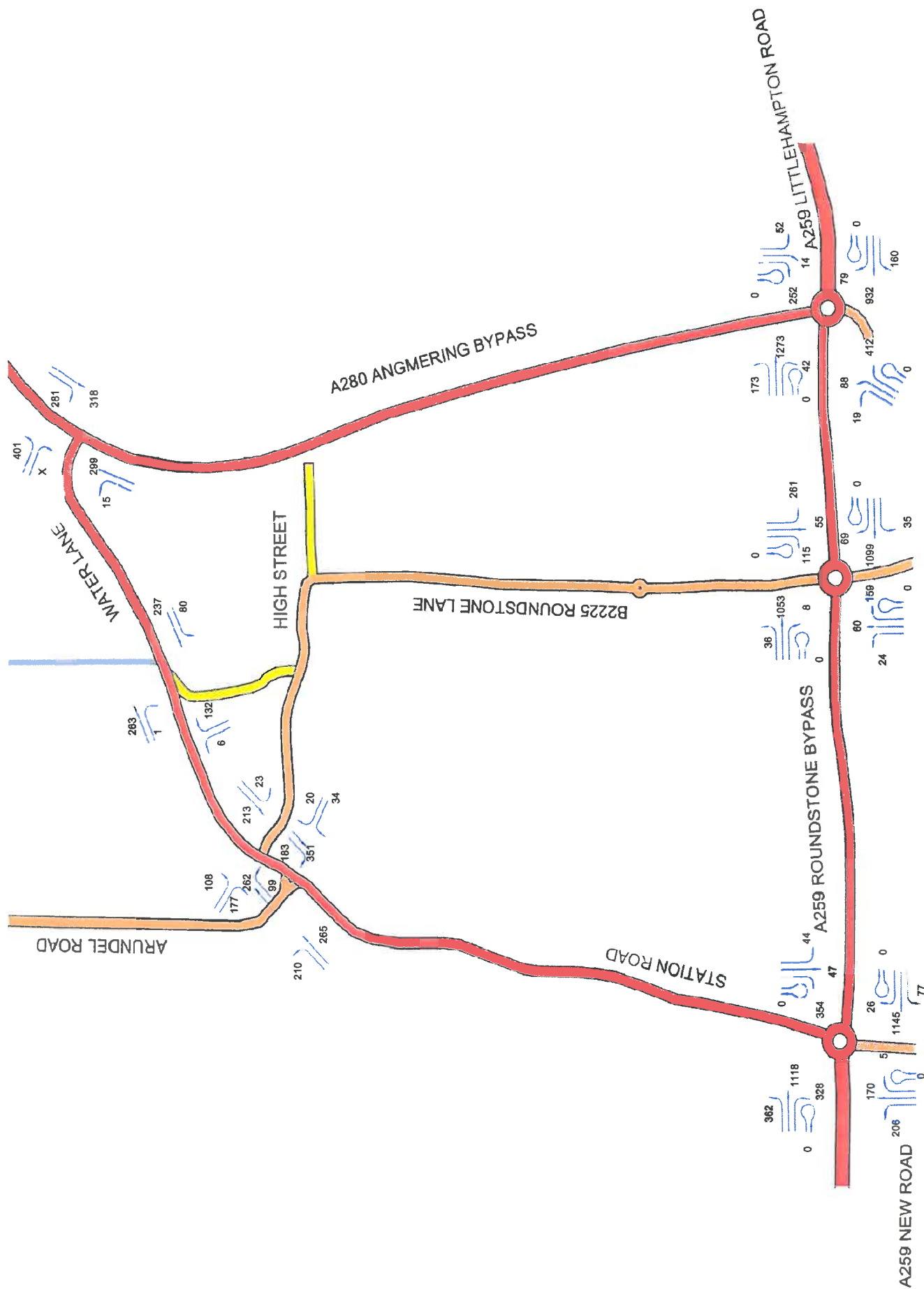




2017 Pre Travel Plan Predicted Flows
AM Peak Hour



**2017 Pre Travel Plan Predicted Flows
PM Peak Hour**



2017 Post Travel Plan Predicted Flows
AM Peak Hour
 10% Reduction in Private Car Trips due to Travel Plan

