

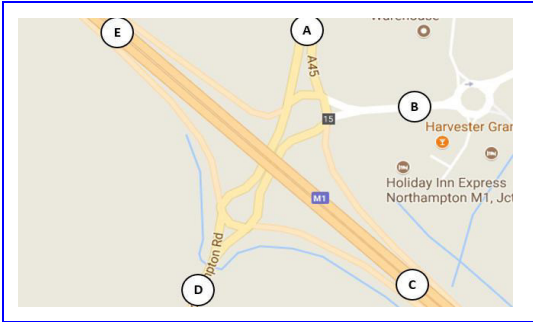
Appendix 44
DfT 02/2013 Circular compliant NSTM2
study area traffic flows

DfT 02/2013 CIRCULAR COMPLIANT
REFERENCE CASE (SCENARIO C1)

NSTM2 Study Area Turning Counts

Junction Turning Flows

Junction: M1 Junction 15



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	3355	3104	9220	2104	A45
B	27014	27015	3104	27014	Saxon Avenue
C	9116	9221	27015	9107	M1 East
D	1252	9117	9221	1252	A508
E	9106	9220	9117	9118	M1 West
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	124	40	1037	708	1828		3737
	B	22	0	38	4	3		67
	C	1474	71	0	83	0		1628
	D	348	24	56	0	302		730
	E	1231	114	0	469	1		1815
	F							
	G							
TOTAL	3199	249	1131	1264	2134		7977	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	112	39	830	643	1235		2859
	B	22	0	37	4	3		66
	C	1081	43	0	56	0		1180
	D	308	22	54	0	289		673
	E	976	114	0	337	0		1427
	F							
	G							
TOTAL	2499	218	921	1040	1527		6205	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	12	1	81	55	52		201
	B	0	0	0	0	0		0
	C	92	0	0	22	0		114
	D	29	2	1	0	4		36
	E	59	0	0	7	0		66
	F							
	G							
TOTAL	192	3	82	84	56		417	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	126	10	541		677
	B	0	0	1	0	0		1
	C	301	28	0	5	0		334
	D	11	0	1	0	9		21
	E	196	0	0	125	1		322
	F							
	G							
TOTAL	508	28	128	140	551		1355	

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	159	73	904	842	1387		3365
	B	21	0	87	5	100		213
	C	1288	29	0	124	0		1441
	D	558	15	49	0	351		973
	E	1049	88	0	322	0		1459
	F							
	G							
TOTAL	3075	205	1040	1293	1838		7451	

By Vehicle Type:

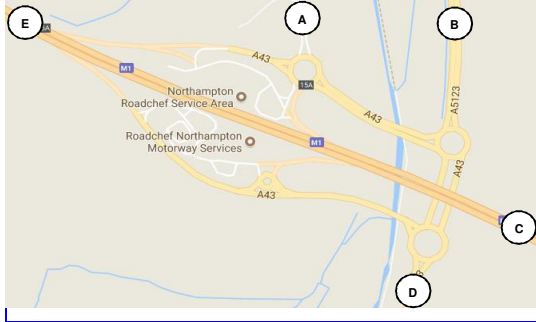
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	154	70	808	756	1265		3053
	B	20	0	41	5	30		96
	C	1019	29	0	122	0		1170
	D	526	15	43	0	261		845
	E	820	55	0	183	0		1058
	F							
	G							
TOTAL	2539	169	892	1066	1556		6222	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	5	2	36	14	19		76
	B	1	0	0	0	1		2
	C	51	0	0	2	0		53
	D	23	0	5	0	5		33
	E	52	1	0	16	0		69
	F							
	G							
TOTAL	132	3	41	32	25		233	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	60	72	103		236
	B	0	0	46	0	69		115
	C	218	0	0	0	0		218
	D	9	0	1	0	85		95
	E	177	32	0	123	0		332
	F							
	G							
TOTAL	404	33	107	195	257		996	

Junction Turning Flows

Junction: **M1 Junction 15a**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	21265	21266	21266	21265	Swan Valley Way
B	2102	3246	3246	2102	A5123
C	1246	82005	82001	5246	M1 East
D	2309	4246	4246	2309	A43
E	6246	2266	82004	24119	M1 West
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	548	94	0			642
	B	0	0	294	1601	189			2083
	C	13	218	0	363	0			593
	D	166	1268	330	0	355			2119
	E	2	339	0	368	0			709
	F								
	G								
	TOTAL	181	1825	1172	2426	544			6147

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	343	91	0			434
	B	0	0	288	1252	156			1696
	C	11	157	0	343	0			511
	D	164	900	317	0	340			1721
	E	2	302	0	115	0			420
	F								
	G								
	TOTAL	177	1360	948	1801	496			4782

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	50	2	0			52
	B	0	0	6	98	8			112
	C	1	31	0	20	0			52
	D	1	52	13	0	8			74
	E	0	13	0	37	0			49
	F								
	G								
	TOTAL	3	96	69	157	16			339

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	155	1	0			156
	B	0	0	0	251	24			275
	C	1	29	0	0	0			30
	D	1	316	0	0	8			325
	E	0	24	0	216	0			240
	F								
	G								
	TOTAL	1	369	155	468	32			1026

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	525	147	0			673
	B	1	0	380	931	272			1583
	C	77	417	0	222	0			715
	D	78	1412	253	0	355			2098
	E	16	525	0	400	0			941
	F								
	G								
	TOTAL	171	2354	1158	1700	626			6009

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	494	142	0			636
	B	1	0	334	738	265			1338
	C	13	342	0	211	0			566
	D	77	1071	246	0	334			1727
	E	15	348	0	386	0			749
	F								
	G								
	TOTAL	106	1760	1074	1477	599			5017

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	29	5	0			34
	B	0	0	7	51	5			63
	C	0	12	0	3	0			16
	D	1	49	7	0	20			78
	E	0	15	0	12	0			28
	F								
	G								
	TOTAL	2	76	44	71	25			218

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	2	0	0			2
	B	0	0	38	142	1			182
	C	63	63	0	7	0			133
	D	0	293	0	0	0			293
	E	0	162	0	2	0			165
	F								
	G								
	TOTAL	63	518	40	152	2			774

Junction Turning Flows

Junction: A45/Watering Ln



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A			2104	2093	A45 North
B	83008	2104			A45 South
C	1104	2104	2104	1104	Watering Lane
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	2693	0	284				2977
	C	395	0	0				395
	D							
	E							
	F							
	G							
	TOTAL	3088	0	284				3372

By Vehicle Type:

MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	2089	0	249				2338
	C	365	0	0				365
	D							
	E							
	F							
	G							
	TOTAL	2454	0	249				3285

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	144	0	35				179
	C	30	0	0				30
	D							
	E							
	F							
	G							
	TOTAL	174	0	35				262

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	460	0	0				460
	C	0	0	0				0
	D							
	E							
	F							
	G							
	TOTAL	460	0	0				547

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MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	2846	0	165				3011
	C	234	0	0				234
	D							
	E							
	F							
	G							
	TOTAL	3080	0	165				3245

By Vehicle Type:

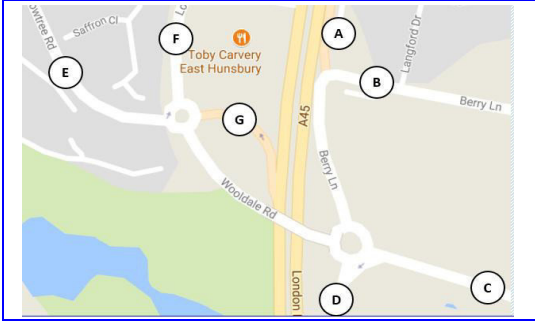
MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	2332	0	162				2494
	C	198	0	0				198
	D							
	E							
	F							
	G							
	TOTAL	2530	0	162				3542

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	132	0	3				135
	C	36	0	0				36
	D							
	E							
	F							
	G							
	TOTAL	168	0	3				210

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	382	0	0				382
	C	0	0	0				0
	D							
	E							
	F							
	G							
	TOTAL	382	0	0				523

Junction Turning Flows

Junction: **A45 Wootton Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	6082	5082			A45 SB Off-slip
B	4082	5082	5082	4082	Berry Lane East
C	3081	75031	75031	3081	Wooldale Road
D	1355	75032	75032	1355	unnamed road
E	24752	1093	1093	24752	Rowtree Road
F			1093	26031	London Road
G	2093	1093			A45 NB On-slip

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2021 AM C1 v4.DAT

		MODELLED							
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	155	37	0
B		0	0	0	167	52	145	0	364
C		0	0	0	661	108	170	0	939
D		0	24	178	0	75	383	0	660
E		0	35	339	458	0	623	0	1455
F		0	0	0	0	0	0	0	0
G		0	37	337	17	143	0	0	534
TOTAL		0	96	854	1303	533	1358	0	4144

By Vehicle Type:

		MODELLED							
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	138	36	0
B		0	0	0	146	52	142	0	340
C		0	0	0	343	103	161	0	607
D		0	24	163	0	75	366	0	628
E		0	34	328	456	0	456	0	1274
F		0	0	0	0	0	0	0	0
G		0	25	195	16	119	0	0	355
TOTAL		0	83	686	961	487	1161	0	3378

		MODELLED							
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	7	1	0
B		0	0	0	3	0	2	0	5
C		0	0	0	26	4	1	0	31
D		0	0	2	0	0	15	0	17
E		0	1	11	1	0	21	0	34
F		0	0	0	0	0	0	0	0
G		0	1	14	1	6	0	0	22
TOTAL		0	2	27	31	17	40	0	117

		MODELLED							
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	10	0	0
B		0	0	0	18	0	1	0	19
C		0	0	0	292	1	8	0	301
D		0	0	13	0	0	2	0	15
E		0	0	0	1	0	146	0	147
F		0	0	0	0	0	0	0	0
G		0	11	128	0	18	0	0	157
TOTAL		0	11	141	311	29	157	0	649

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		MODELLED							
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	12	0	441	50	0
B		0	0	0	0	0	0	0	0
C		0	0	0	512	341	150	0	1003
D		0	18	222	0	72	278	0	590
E		0	7	206	313	0	569	0	1095
F		0	0	0	0	0	0	0	0
G		0	29	483	16	196	0	0	724
TOTAL		0	54	923	841	1050	1047	0	3915

By Vehicle Type:

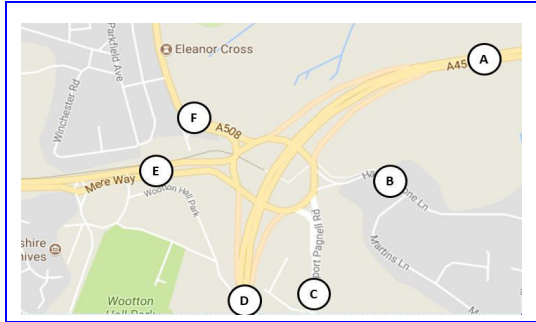
		MODELLED							
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	12	0	417	49	0
B		0	0	0	0	0	0	0	0
C		0	0	0	358	178	148	0	684
D		0	18	205	0	71	269	0	563
E		0	6	173	307	0	204	0	690
F		0	0	0	0	0	0	0	0
G		0	19	316	12	179	0	0	526
TOTAL		0	43	706	677	845	670	0	2941

		MODELLED							
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	10	1	0
B		0	0	0	0	0	0	0	0
C		0	0	0	18	2	2	0	22
D		0	0	17	0	1	7	0	25
E		0	1	7	6	0	23	0	37
F		0	0	0	0	0	0	0	0
G		0	0	16	4	11	0	0	31
TOTAL		0	1	40	28	24	33	0	126

		MODELLED							
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	TOTAL
	From Arm	A	0	0	0	0	14	0	0
B		0	0	0	0	0	0	0	0
C		0	0	0	136	161	0	0	297
D		0	0	0	0	0	2	0	2
E		0	0	26	0	0	342	0	368
F		0	0	0	0	0	0	0	0
G		0	10	151	0	6	0	0	167
TOTAL		0	10	177	136	181	344	0	848

Junction Turning Flows

Junction: **A45 Queen Eleanor Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9168	2092	60137	9162	A45 North
B	1081	1079	1079	1081	Hardington Lane
C	24742	3082	3082	24742	Newport Pagnell Rd
D	9161	60134	60133	9169	A45 South
E	60203	1092	1092	60203	Mere Way
F	2088	60136	60136	2088	A508 - London Road
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	69	124	0	1339	479		2011
	B	228	0	0	10	90	110		438
	C	208	0	0	0	433	507		1148
	D	0	0	0	0	72	627		699
	E	1825	20	367	248	0	2		2462
	F	406	8	291	576	25	0		1306
	G								
	TOTAL	2667	97	782	834	1959	1725		8064

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	64	119	0	1136	375		1694
	B	225	0	0	10	89	108		432
	C	207	0	0	0	430	499		1136
	D	0	0	0	0	62	302		364
	E	1414	19	336	238	0	2		2009
	F	397	8	280	523	24	0		1232
	G								
	TOTAL	2243	91	735	771	1741	1286		6867

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	5	5	0	72	34		116
	B	3	0	0	0	1	2		6
	C	1	0	0	0	2	6		9
	D	0	0	0	0	9	26		35
	E	35	1	5	10	0	0		51
	F	8	0	4	28	1	0		41
	G								
	TOTAL	47	6	14	38	85	68		258

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	0	0	131	70		201
	B	0	0	0	0	0	0		0
	C	0	0	0	0	1	2		3
	D	0	0	0	0	1	299		300
	E	376	0	26	0	0	0		402
	F	1	0	7	25	0	0		33
	G								
	TOTAL	377	0	33	25	133	371		939

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	377	49	0	1243	341		2010
	B	487	0	0	17	45	143		692
	C	214	0	0	0	595	513		1322
	D	0	56	0	0	84	491		631
	E	1696	160	277	255	0	2		2390
	F	308	121	247	593	52	0		1321
	G								
	TOTAL	2705	714	573	865	2019	1490		8366

By Vehicle Type:

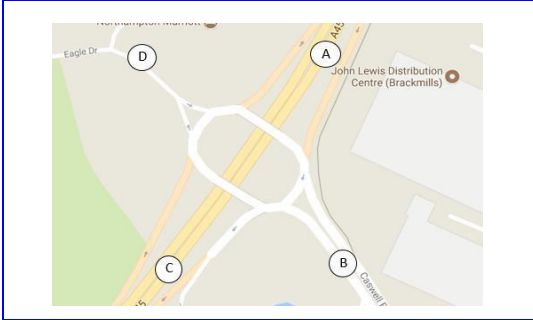
MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	374	49	0	1059	322		1804
	B	466	0	0	17	44	140		667
	C	212	0	0	0	577	488		1277
	D	0	56	0	0	76	475		607
	E	1497	159	274	248	0	2		2180
	F	291	117	233	527	48	0		1216
	G								
	TOTAL	2466	706	556	792	1804	1427		7751

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	3	0	0	62	19		84
	B	15	0	0	0	1	3		19
	C	2	0	0	0	18	25		45
	D	0	0	0	0	1	6		7
	E	25	1	2	1	0	0		29
	F	17	4	9	4	4	0		38
	G								
	TOTAL	59	8	11	5	86	53		222

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	0	0	122	0		122
	B	6	0	0	0	0	0		6
	C	0	0	0	0	0	0		0
	D	0	0	0	0	7	10		17
	E	174	0	1	6	0	0		181
	F	0	0	5	62	0	0		67
	G								
	TOTAL	180	0	6	68	129	10		393

Junction Turning Flows

Junction: **A45 Brackmills Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	75028	3084	2084	7084	A45/ Nene Valley Way
B	2345	4084	3084	2345	Caswell Road
C	9163	6084	4084	5084	A45/ Nene Valley Way
D	1084	2084	6084	1084	Eagle Drive
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2021 AM C1 v4.DAT

		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	14	889	30	10				943
	B	505	0	474	1				980
	C	725	1044	0	13				1782
	D	39	8	26	0				73
	E								
	F								
	G								
TOTAL	1283	1941	530	24				3778	

By Vehicle Type:

		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	14	716	26	10				766
	B	469	0	301	1				771
	C	663	983	0	9				1655
	D	25	4	23	0				52
	E								
	F								
	G								
TOTAL	1171	1703	350	20				3244	

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	7	2	0				9
	B	17	0	28	0				45
	C	20	10	0	4				34
	D	14	4	3	0				21
	E								
	F								
	G								
TOTAL	51	21	33	4				109	

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	166	2	0				168
	B	19	0	145	0				164
	C	42	51	0	0				93
	D	0	0	0	0				0
	E								
	F								
	G								
TOTAL	61	217	147	0				425	

PMNSTM 2 2021 PM C1 v4.DAT

		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	301	422	0				723
	B	477	0	428	19				924
	C	1262	729	0	8				1999
	D	345	122	138	0				605
	E								
	F								
	G								
TOTAL	2084	1152	988	27				4251	

By Vehicle Type:

		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	295	409	0				704
	B	475	0	395	19				889
	C	1053	670	0	4				1727
	D	328	101	128	0				557
	E								
	F								
	G								
TOTAL	1856	1066	932	23				3877	

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	6	9	0				15
	B	2	0	16	0				18
	C	48	16	0	4				68
	D	8	9	10	0				27
	E								
	F								
	G								
TOTAL	58	31	35	4				128	

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	0	4	0				4
	B	0	0	17	0				17
	C	161	43	0	0				204
	D	9	12	0	0				21
	E								
	F								
	G								
TOTAL	170	55	21	0				246	

Junction Turning Flows

Junction: **A45 Barnes Meadow Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9166	9176	9175	9165	A45/NeneValley Way
B	24740	2053	2053	24740	A428/Bedford Road
C	9164	9173	9177	75027	A45/NeneValley Way
D	2051	9174	9174	2051	A428/Bedford Road
E	1054	9175	9175	1054	A5095/ Rushmere Road
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2021 AM C1 v4.DAT

PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	0	542	153	959	7			1661
	B	58	0	147	352	109			666
	C	0	157	0	1033	180			1370
	D	792	625	150	0	97			1664
	E	82	572	514	1	0			1169
	F								
	G								
	TOTAL		932	1896	964	2345	393		6530

By Vehicle Type:

Car		MODELLED							TOTAL
		To Arm							
From Arm	A	0	454	123	919	7			1503
	B	52	0	127	300	104			583
	C	0	154	0	981	177			1312
	D	714	545	148	0	87			1494
	E	81	571	490	1	0			1143
	F								
	G								
	TOTAL		847	1724	888	2201	375		6035

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	4	8	30	0			42
	B	3	0	14	11	3			31
	C	0	3	0	52	3			58
	D	70	6	2	0	10			88
	E	1	1	22	0	0			24
	F								
	G								
	TOTAL		74	14	46	93	16		243

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	84	22	10	0			116
	B	3	0	6	41	2			52
	C	0	0	0	0	0			0
	D	8	74	0	0	0			82
	E	0	0	2	0	0			2
	F								
	G								
	TOTAL		11	158	30	51	2		252

PMNSTM 2 2021 PM C1 v4.DAT

PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	0	228	176	708	8			1120
	B	536	0	73	436	593			1638
	C	0	61	0	797	355			1213
	D	1735	401	567	4	23			2730
	E	267	267	364	9	0			907
	F								
	G								
	TOTAL		2538	957	1180	1954	979		7608

By Vehicle Type:

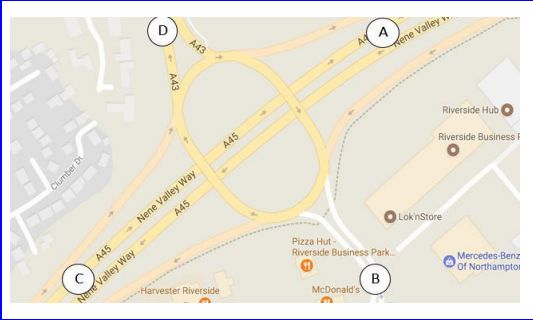
Car		MODELLED							TOTAL
		To Arm							
From Arm	A	0	221	163	647	8			1039
	B	528	0	72	428	587			1615
	C	0	61	0	767	341			1169
	D	1514	395	557	4	23			2493
	E	260	262	357	9	0			888
	F								
	G								
	TOTAL		2302	939	1149	1855	959		7204

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	3	5	10	0			18
	B	5	0	1	4	5			15
	C	0	0	0	30	14			44
	D	87	3	10	0	0			100
	E	7	5	7	0	0			19
	F								
	G								
	TOTAL		99	11	23	44	19		196

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	4	8	51	0			63
	B	3	0	0	4	1			8
	C	0	0	0	0	0			0
	D	134	3	0	0	0			137
	E	0	0	0	0	0			0
	F								
	G								
	TOTAL		137	7	8	55	1		208

Junction Turning Flows

Junction: **A45 Lumbertubs Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9213	9214	9211	9212	A45/ Nene Valley Way
B	4437	9215	9214	4436	Ferris Flow
C	2075	9217	9215	9216	A45/ Nene Valley Way
D	9210	9211	9217	4068	A43/ Lumbertubs Way
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2021 AM C1 v4.DAT

PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	0	118	0	321				439
	B	39	0	1019	241				1299
	C	0	110	0	1480				1590
	D	381	1140	1326	91				2938
	E								
	F								
	G								
	TOTAL		420	1368	2345	2133			6266

By Vehicle Type:

Car		MODELLED							TOTAL
		To Arm							
From Arm	A	0	108	0	309				417
	B	36	0	938	205				1179
	C	0	100	0	1011				1111
	D	370	1012	1059	89				2530
	E								
	F								
	G								
	TOTAL		406	1220	1997	1614			5237

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	10	0	12				22
	B	2	0	40	5				47
	C	0	10	0	74				84
	D	10	47	61	2				120
	E								
	F								
	G								
	TOTAL		12	67	101	93			273

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	0				0
	B	1	0	41	31				73
	C	0	0	0	395				395
	D	1	81	206	0				288
	E								
	F								
	G								
	TOTAL		2	81	247	426			756

PMNSTM 2 2021 PM C1 v4.DAT

PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	0	96	0	504				600
	B	112	0	928	399				1439
	C	0	125	8	1908				2041
	D	185	783	1088	28				2084
	E								
	F								
	G								
	TOTAL		297	1004	2024	2839			6164

By Vehicle Type:

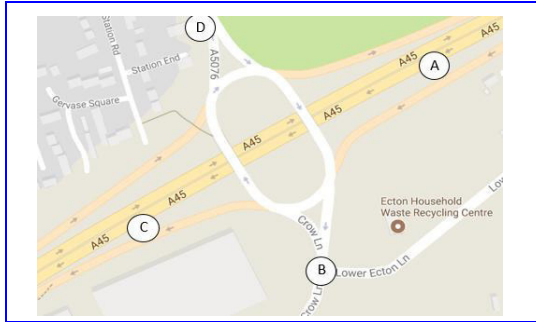
Car		MODELLED							TOTAL
		To Arm							
From Arm	A	0	74	0	496				570
	B	107	0	918	395				1420
	C	0	14	8	1645				1667
	D	179	711	983	28				1901
	E								
	F								
	G								
	TOTAL		286	799	1909	2564			5558

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	21	0	8				29
	B	5	0	8	4				17
	C	0	2	0	50				52
	D	6	13	27	0				46
	E								
	F								
	G								
	TOTAL		11	36	35	62			144

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	1	0	0				1
	B	0	0	2	0				2
	C	0	109	0	213				322
	D	0	59	78	0				137
	E								
	F								
	G								
	TOTAL		0	169	80	213			462

Junction Turning Flows

Junction: **A45 Great Billing Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9259	9258	9253	9254	A45/ Nene Valley Way
B	1076	9257	9257	1076	Crow Lane
C	9250	9251	9256	9255	A45/ Nene Valley Way
D	24694	9252	9252	24694	Great Billing Way
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2021 AM C1 v4.DAT

PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	0	411	53	330				794
	B	262	0	647	384				1293
	C	0	139	5	327				471
	D	321	451	655	0				1427
	E								
	F								
	G								
	TOTAL	583	1001	1360	1041				3985

By Vehicle Type:

Car		MODELLED							TOTAL
		To Arm							
From Arm	A	0	209	0	317				526
	B	218	0	369	264				851
	C	0	128	5	323				456
	D	316	379	610	0				1305
	E								
	F								
	G								
	TOTAL	534	716	984	904				3138

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	2	0	6				8
	B	38	0	46	38				122
	C	0	11	0	4				15
	D	5	17	15	0				37
	E								
	F								
	G								
	TOTAL	43	30	61	48				182

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	200	53	7				260
	B	6	0	232	82				320
	C	0	0	0	0				0
	D	0	55	30	0				85
	E								
	F								
	G								
	TOTAL	6	255	315	89				665

PMNSTM 2 2021 PM C1 v4.DAT

PCU		MODELLED							TOTAL
		To Arm							
From Arm	A	0	199	0	108				307
	B	333	0	224	541				1098
	C	117	157	5	700				979
	D	337	247	254	0				838
	E								
	F								
	G								
	TOTAL	787	603	483	1349				3222

By Vehicle Type:

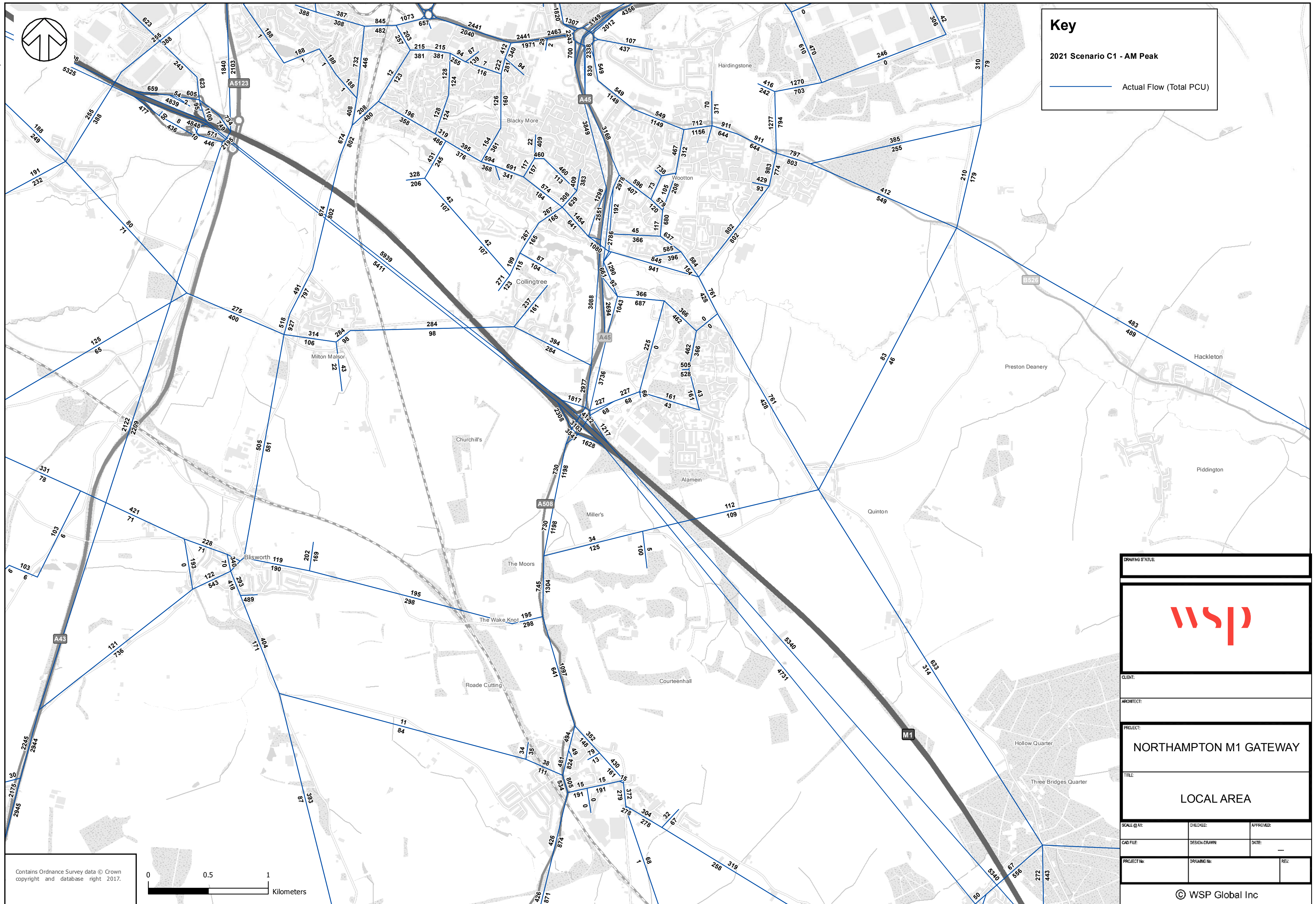
Car		MODELLED							TOTAL
		To Arm							
From Arm	A	0	197	0	108				305
	B	301	0	168	483				952
	C	100	23	5	503				631
	D	324	228	249	0				801
	E								
	F								
	G								
	TOTAL	725	448	422	1094				2689

LGV		MODELLED							TOTAL
		To Arm							
From Arm	A	0	2	0	0				2
	B	31	0	35	51				117
	C	7	17	0	26				50
	D	13	19	4	0				36
	E								
	F								
	G								
	TOTAL	51	38	39	77				205

HGV (PCU)		MODELLED							TOTAL
		To Arm							
From Arm	A	0	0	0	0				0
	B	1	0	21	7				29
	C	10	117	0	171				298
	D	0	0	1	0				1
	E								
	F								
	G								
	TOTAL	11	117	22	178				328

DfT 02/2013 CIRCULAR COMPLIANT
REFERENCE CASE (SCENARIO C1)

[NSTM2 Actual Flow Plots \(link flows\)](#)

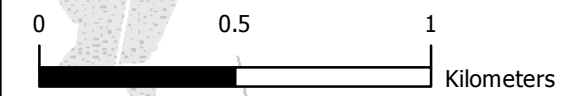


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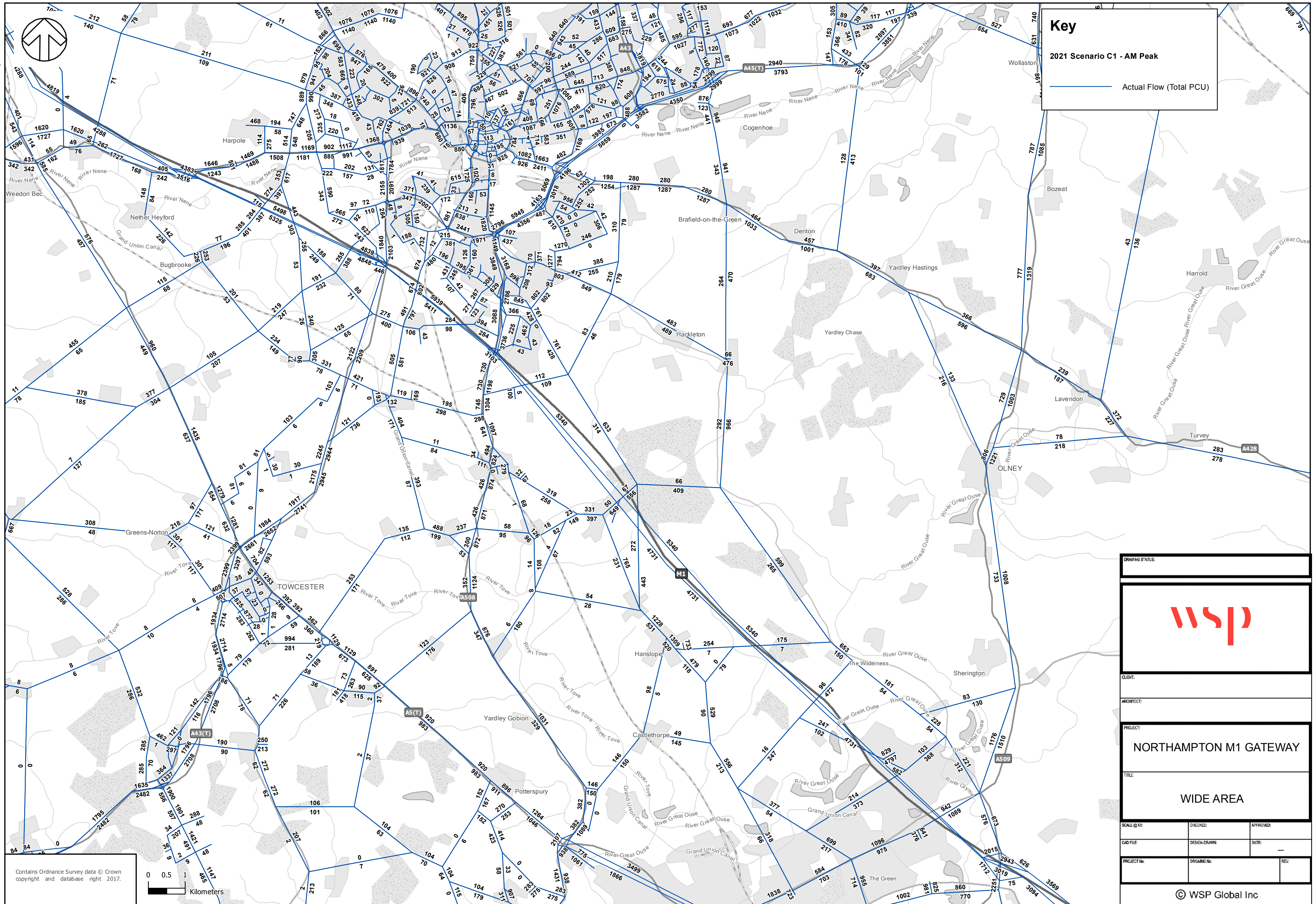
2021 Scenario C1 - AM Peak

— Actual Flow (Total PCU)

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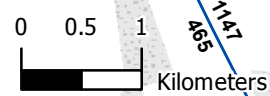


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Actual Flow (Total PCU)

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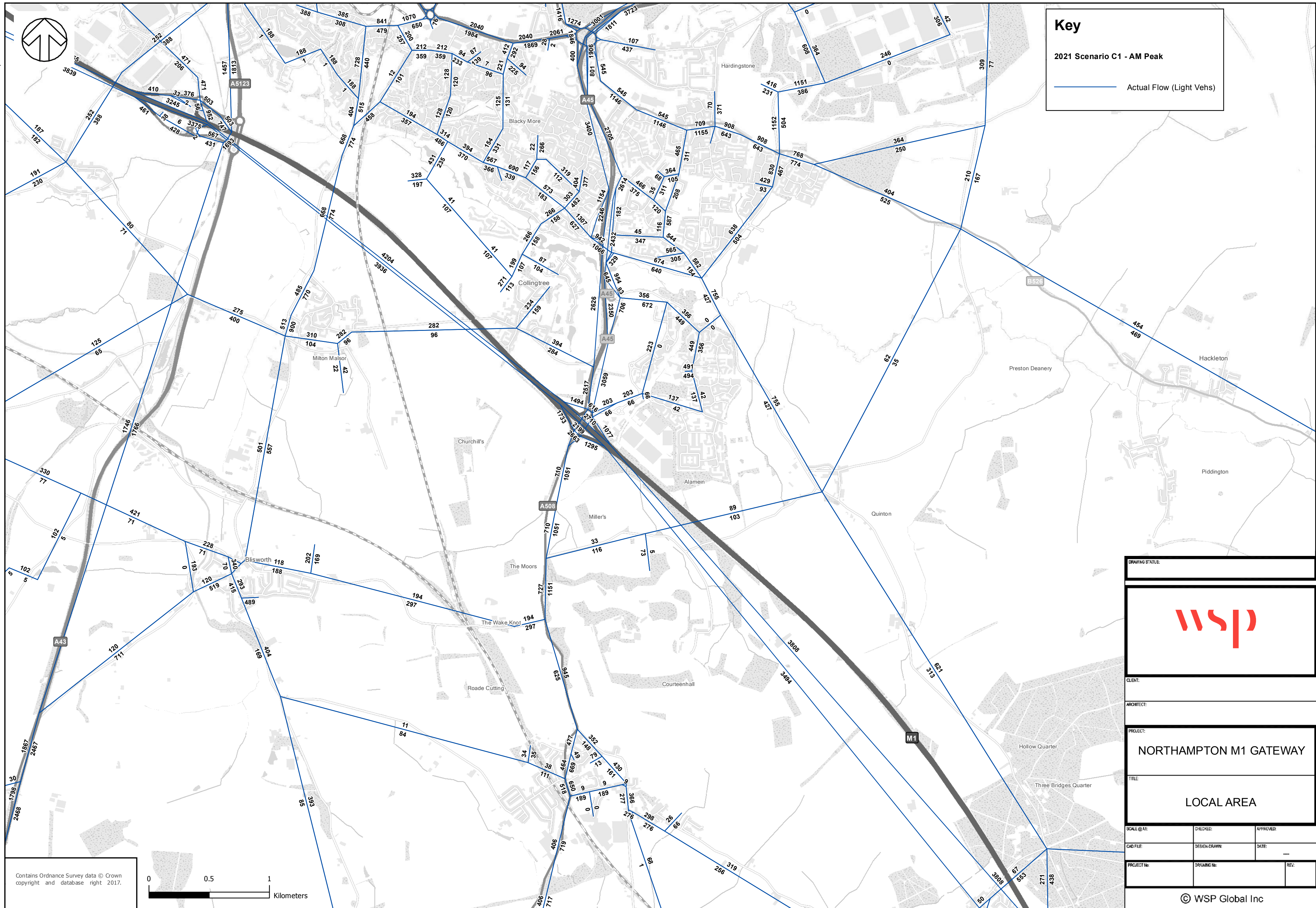
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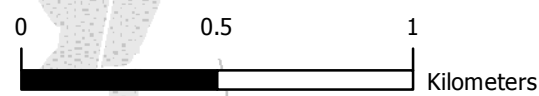


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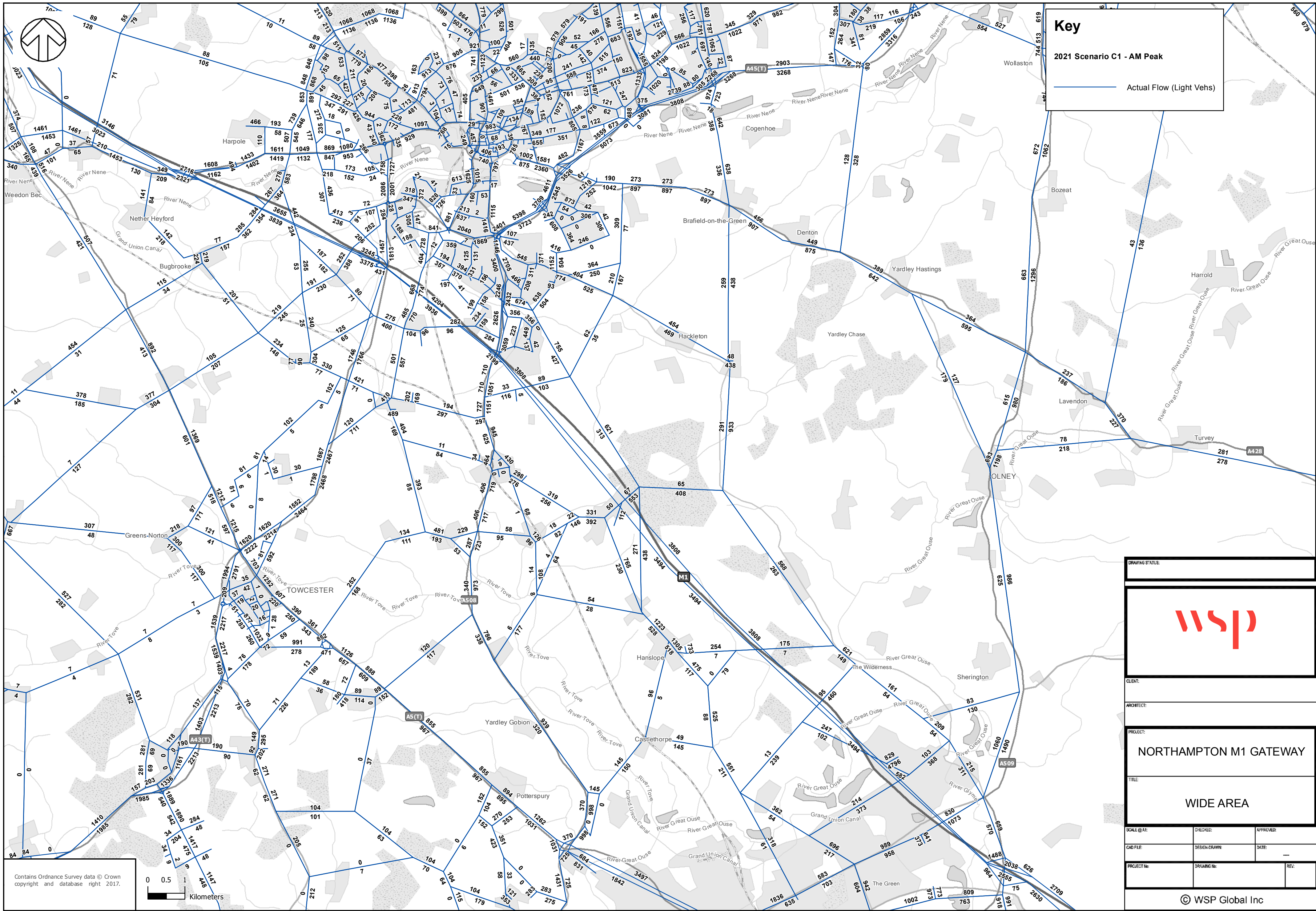
2021 Scenario C1 - AM Peak

— Actual Flow (Light Vehs)

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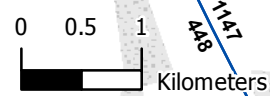


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— Actual Flow (Light Vehs)

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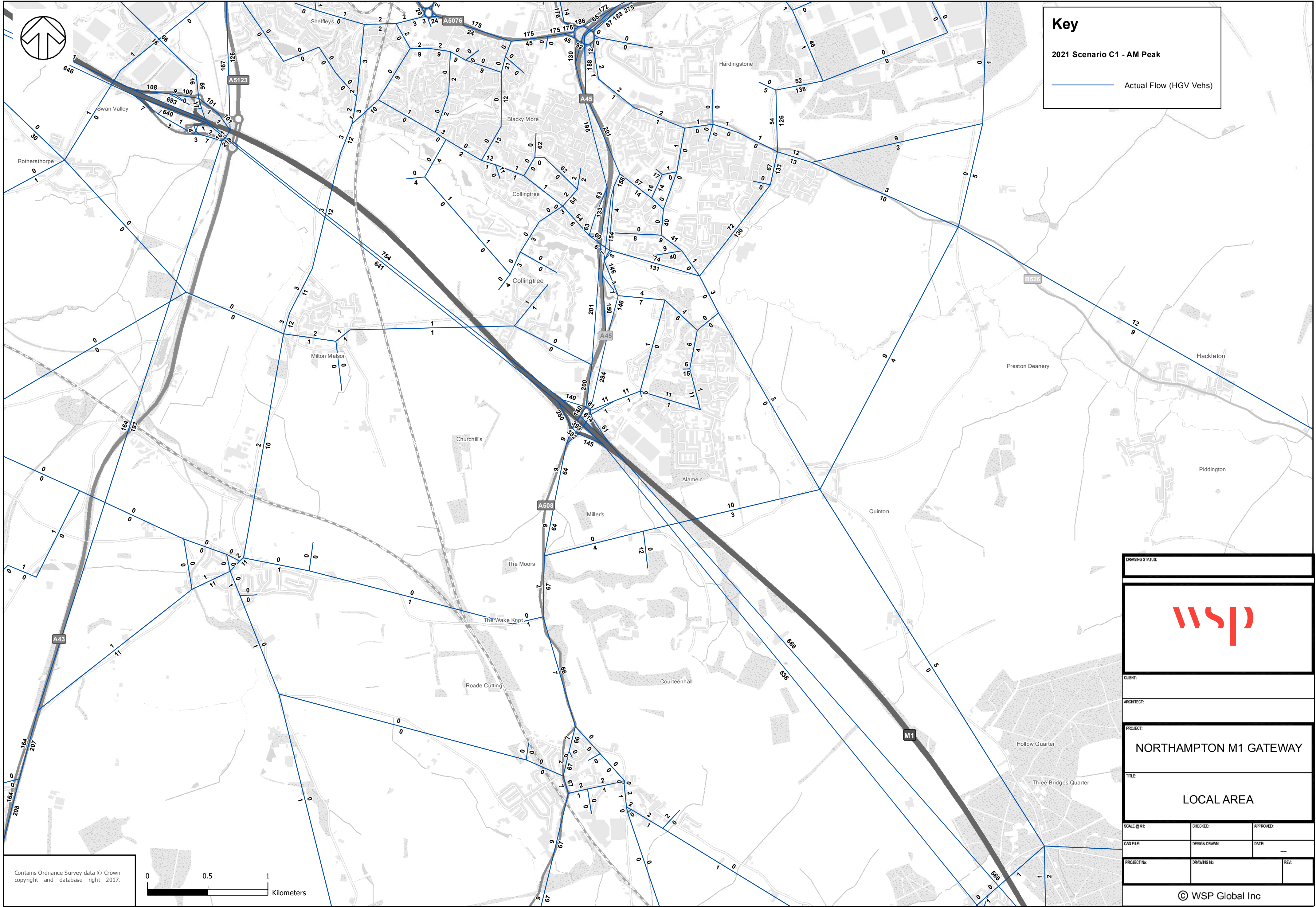
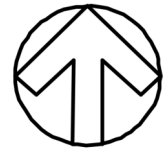
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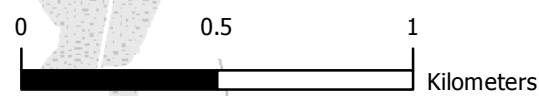


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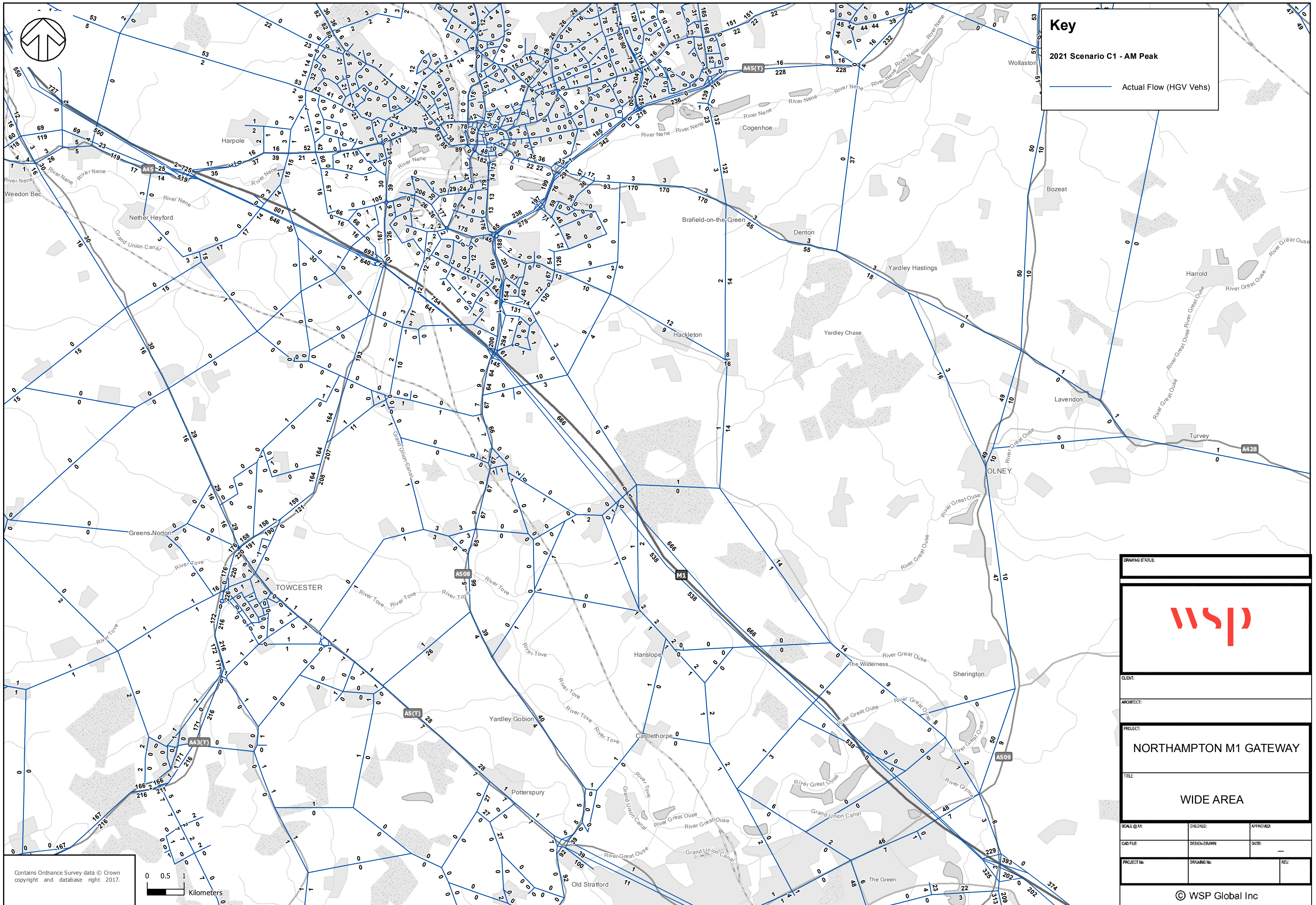
2021 Scenario C1 - AM Peak

— Actual Flow (HGV Vehs)

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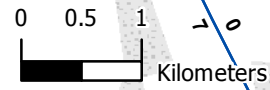


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— Actual Flow (HGV Vehs)

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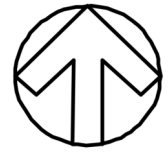
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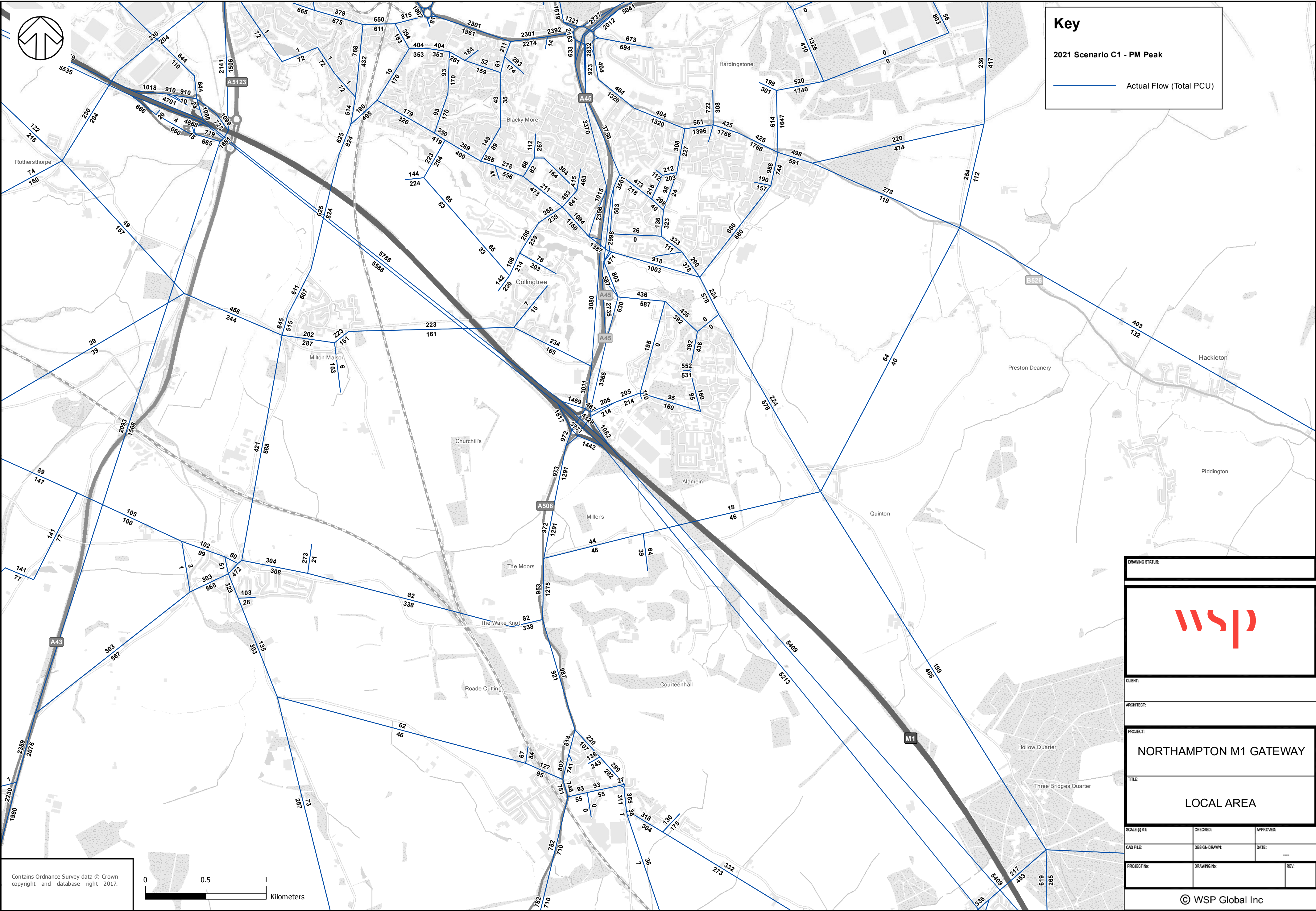
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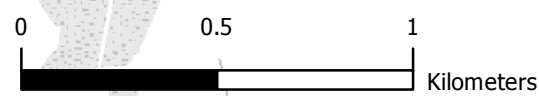
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2021 Scenario C1 - PM Peak

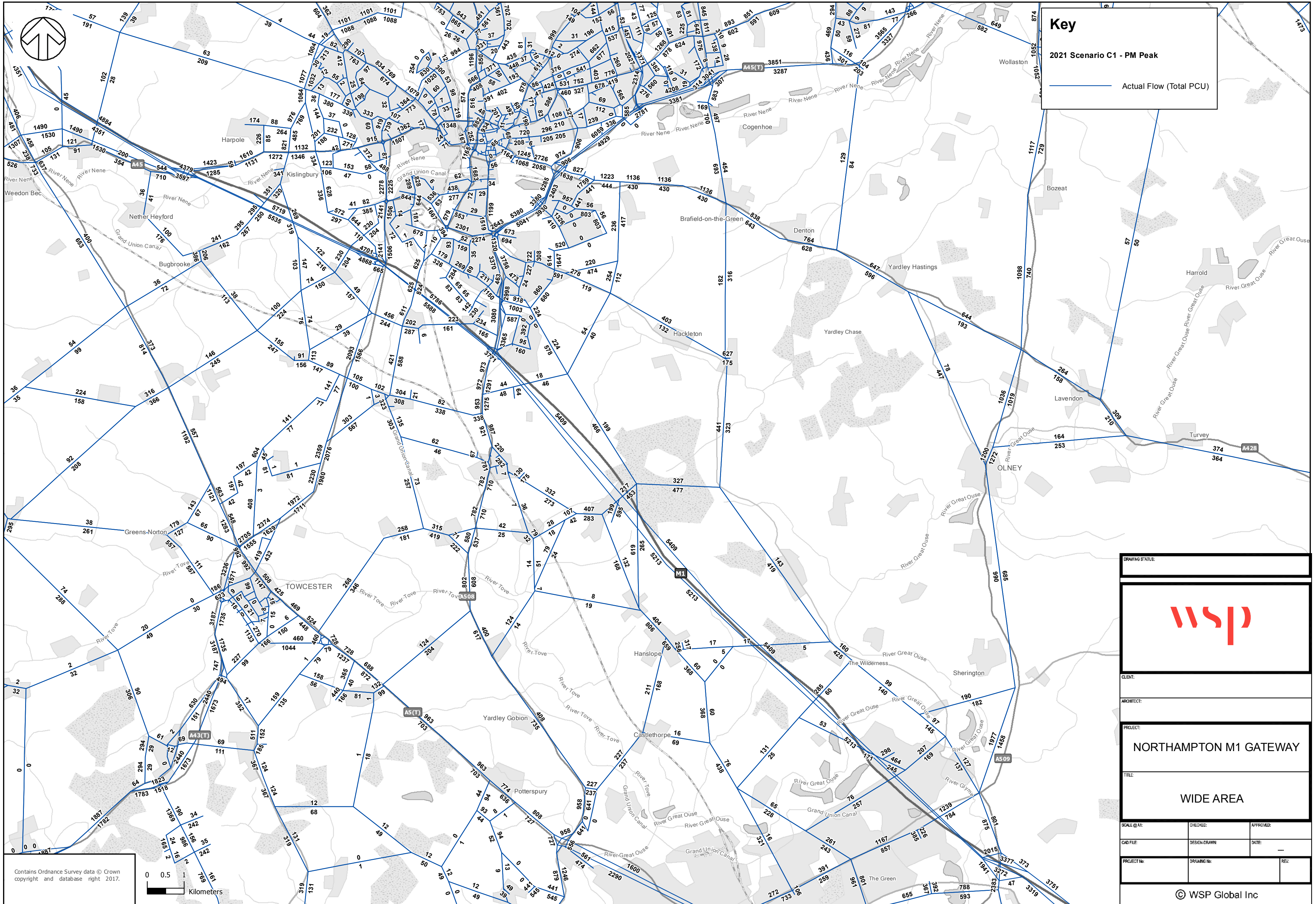
— Actual Flow (Total PCU)



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2021 Scenario C1 - PM Peak

Actual Flow (Total PCU)

DRAWING STATUS:



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NORTHAMPTON M1 GATEWAY

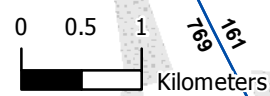
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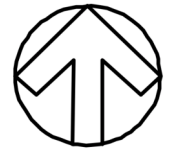
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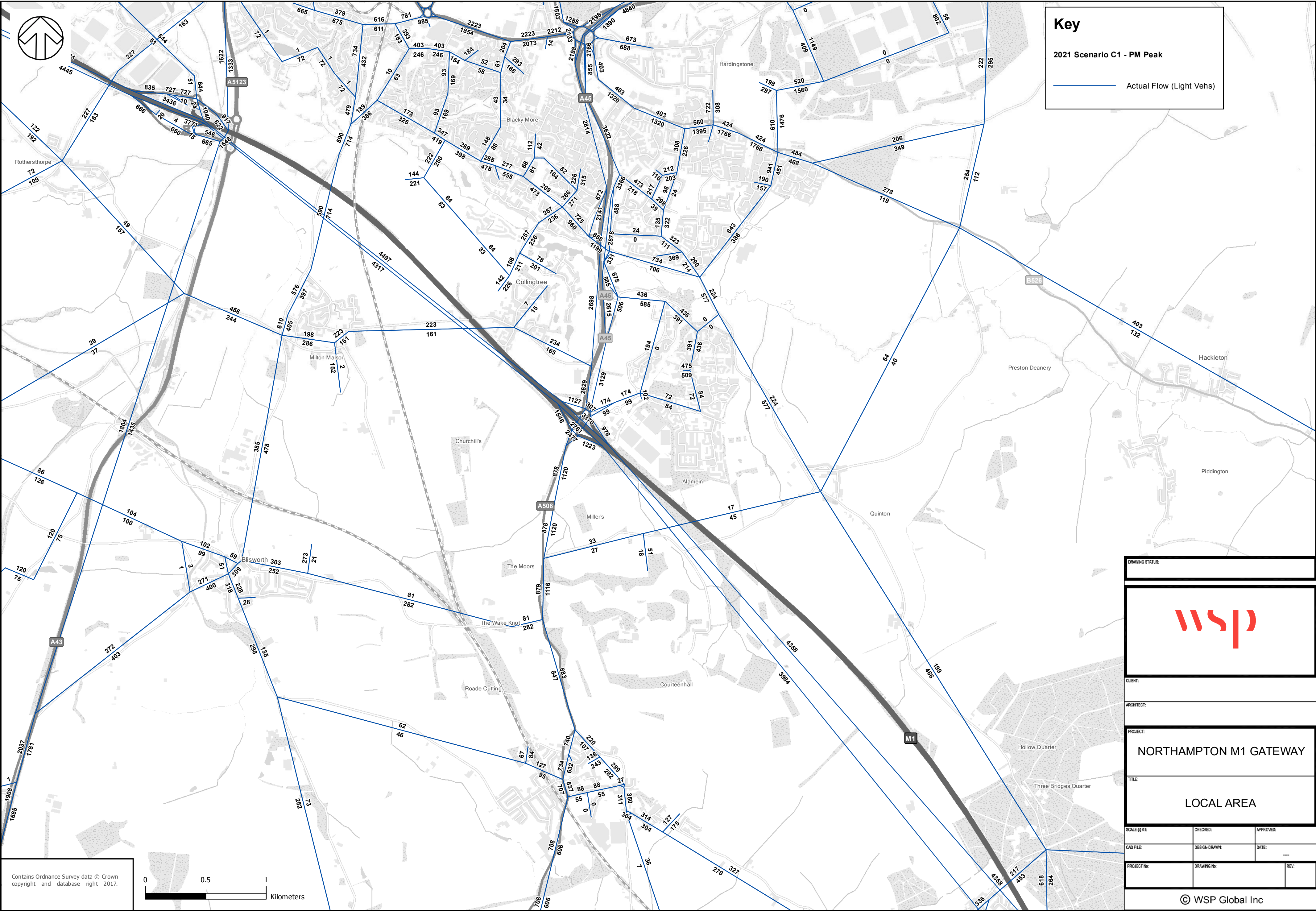




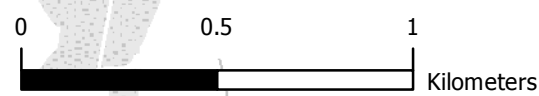
Key

2021 Scenario C1 - PM Peak

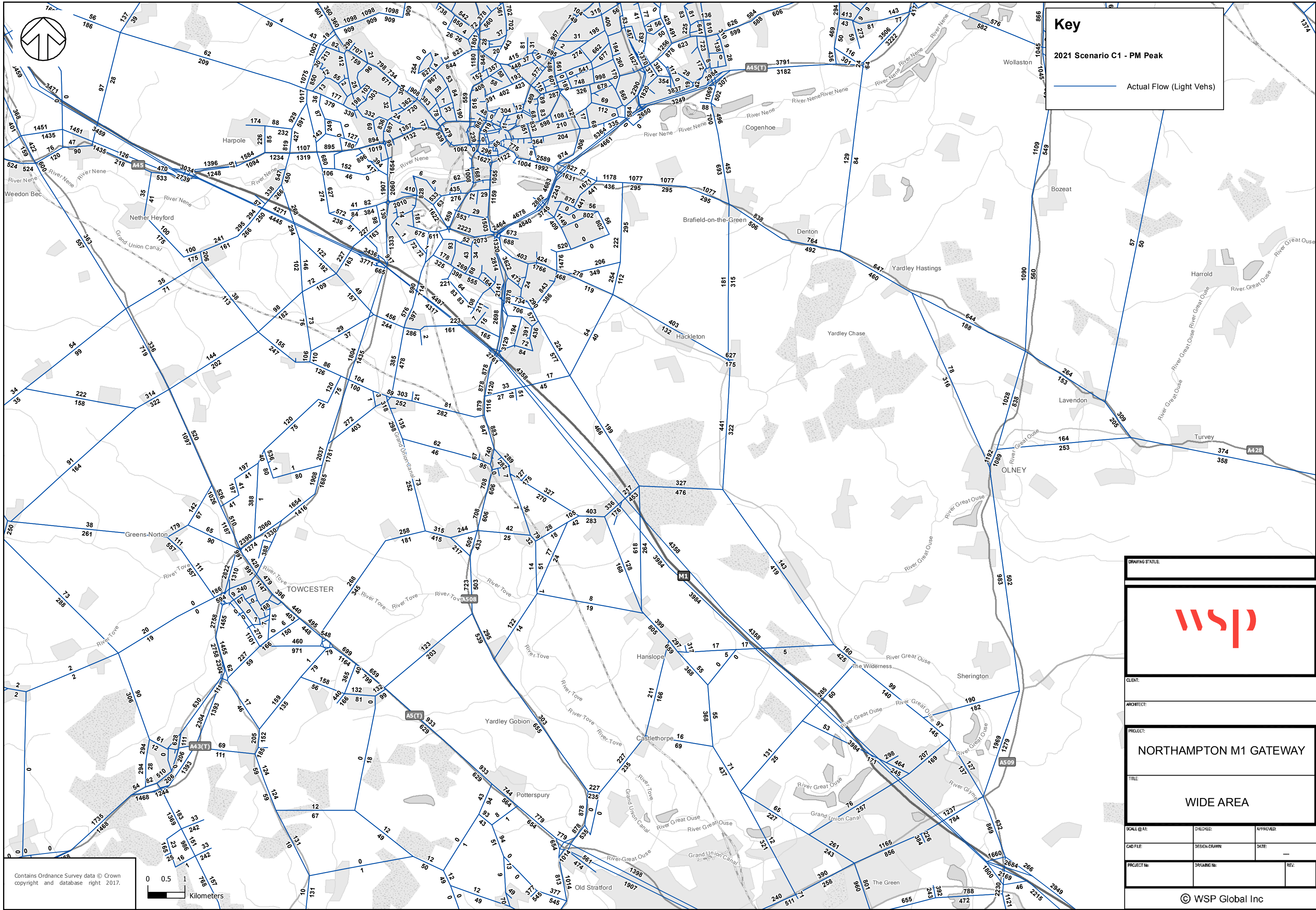
Actual Flow (Light Vehs)



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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:
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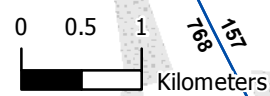


Key


2021 Scenario C1 - PM Peak

— Actual Flow (Light Vehs)

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

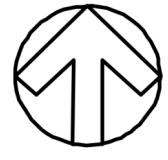
NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
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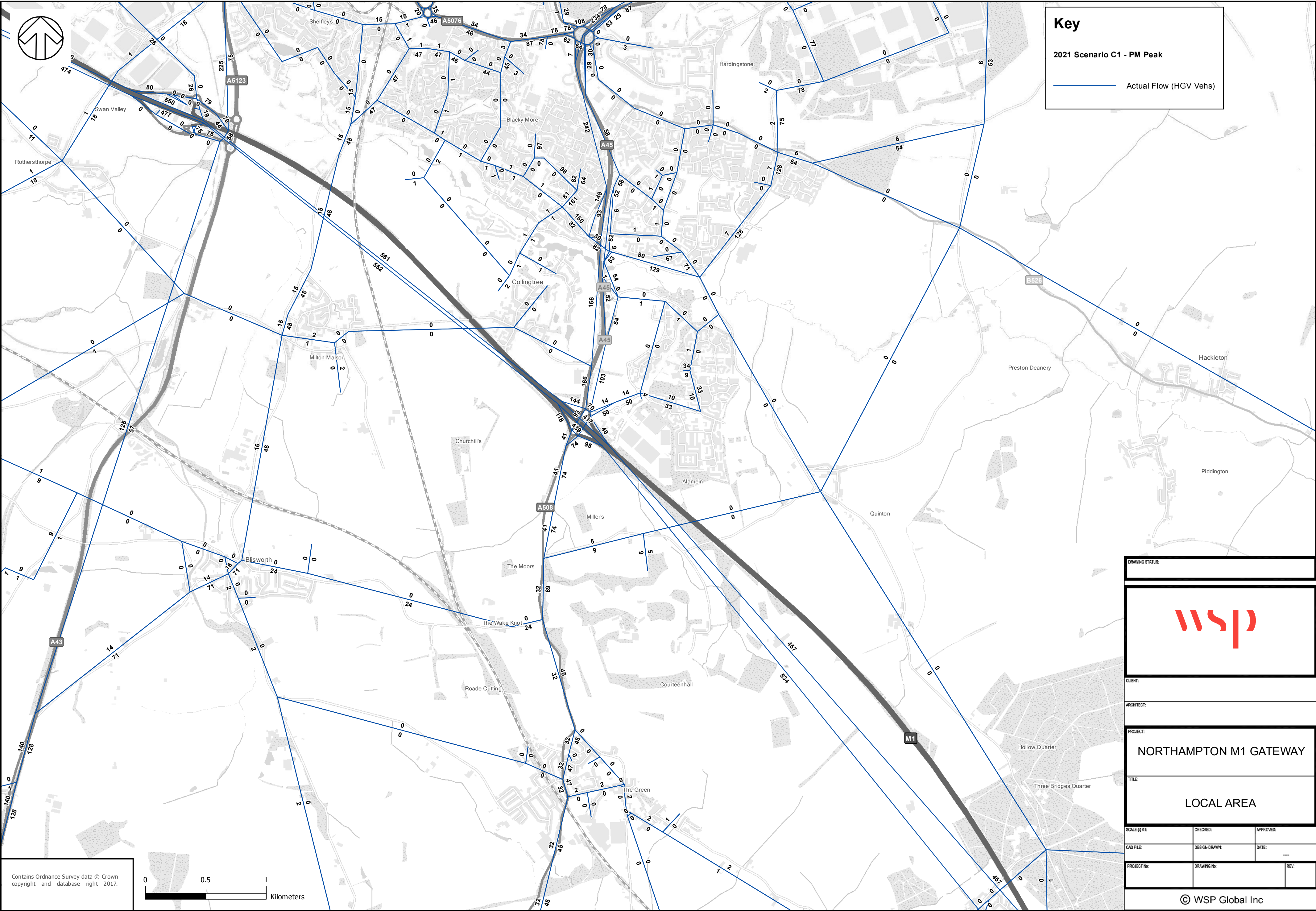
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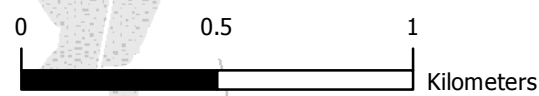
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2021 Scenario C1 - PM Peak

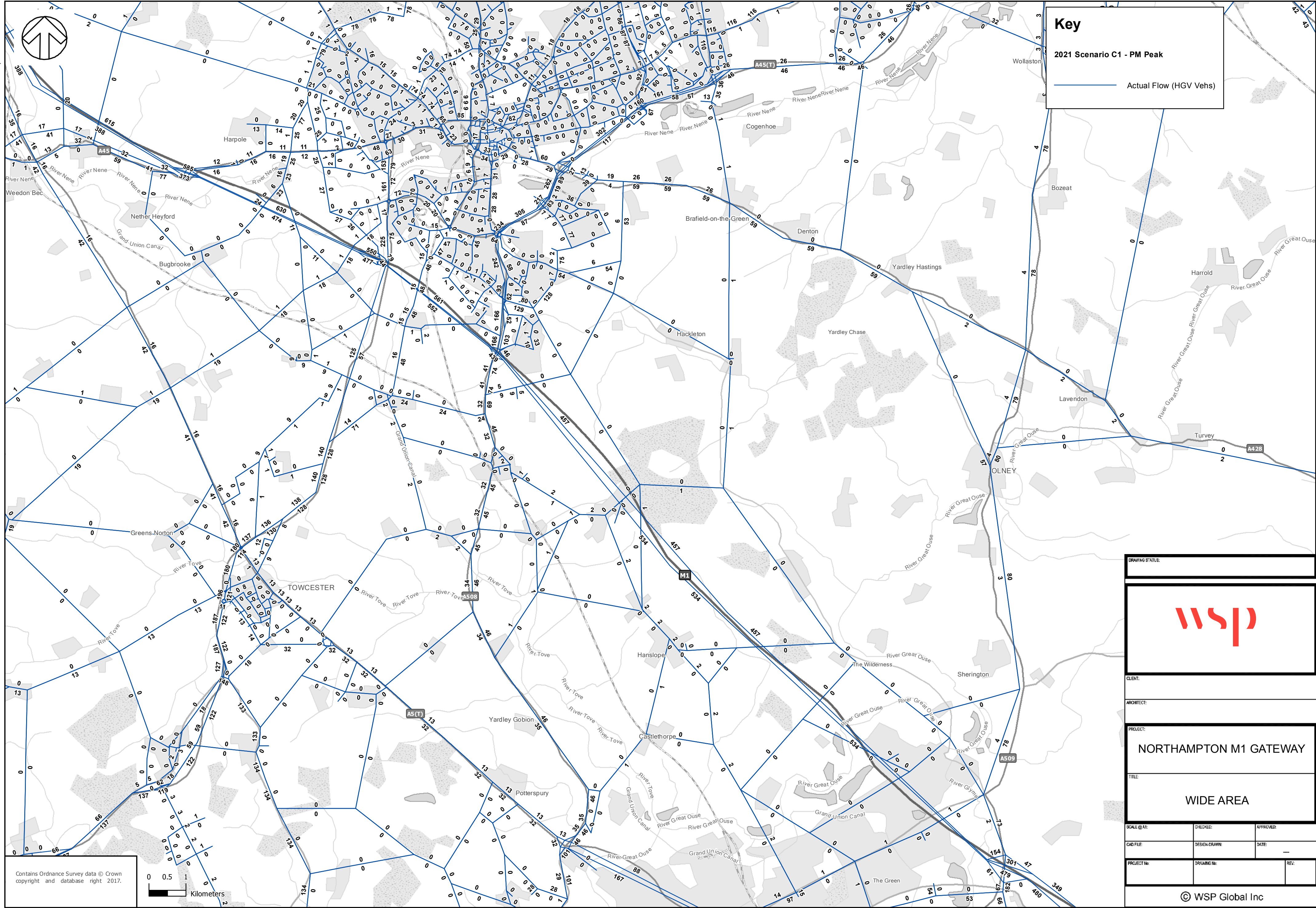
— Actual Flow (HGV Vehs)



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DRAWING STATUS:		
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ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
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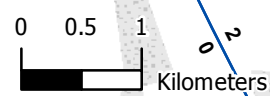


Key


2021 Scenario C1 - PM Peak

— Actual Flow (HGV Vehs)

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1:	CHECKED:	APPROVED:
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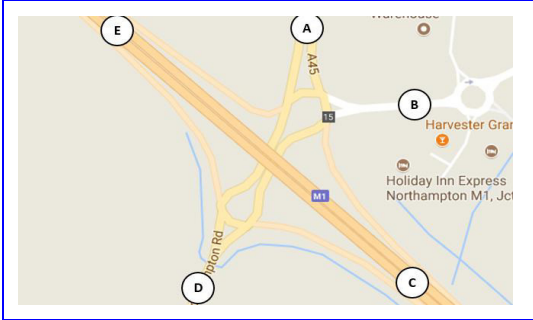
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DfT 02/2013 CIRCULAR COMPLIANT
DEVELOPMENT CASE NO HIGHWAY MITIGATION
(SCENARIO F1)

NSTM2 Study Area Turning Counts
(junction 1 only)

Junction Turning Flows

Junction: M1 Junction 15



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	3355	3104	9220	2104	A45
B	27014	27015	3104	27014	Saxon Avenue
C	9116	9221	27015	9107	M1 East
D	1252	9117	9221	1252	A508
E	9117	9118	9106	9220	M1 West
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM_2_2021_AM_F1_v2.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	118	39	998	775	1818		3748
	B	20	0	36	4	1		61
	C	1290	60	0	241	0		1591
	D	501	34	119	0	386		1040
	E	1195	94	0	566	0		1855
	F							
	G							
TOTAL	3124	227	1153	1586	2205		8295	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	108	38	797	611	1234		2788
	B	19	0	33	3	1		56
	C	922	34	0	150	0		1106
	D	370	28	77	0	311		786
	E	958	94	0	376	0		1428
	F							
	G							
TOTAL	2377	194	907	1140	1546		6164	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	10	1	78	58	51		198
	B	1	0	1	0	0		2
	C	82	0	0	22	0		104
	D	32	2	0	0	5		39
	E	65	0	0	10	0		75
	F							
	G							
TOTAL	190	3	79	90	56		418	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	123	106	533		762
	B	0	0	2	1	0		3
	C	286	26	0	69	0		381
	D	99	4	42	0	70		215
	E	172	0	0	180	0		352
	F							
	G							
TOTAL	557	30	167	356	603		1713	

PMNSTM_2_2021_PM_F1_v2.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	103	77	946	851	1298		3275
	B	19	0	87	7	100		213
	C	1149	26	0	287	0		1462
	D	971	42	207	0	674		1894
	E	1022	119	0	385	0		1526
	F							
	G							
TOTAL	3264	264	1240	1530	2072		8370	

By Vehicle Type:

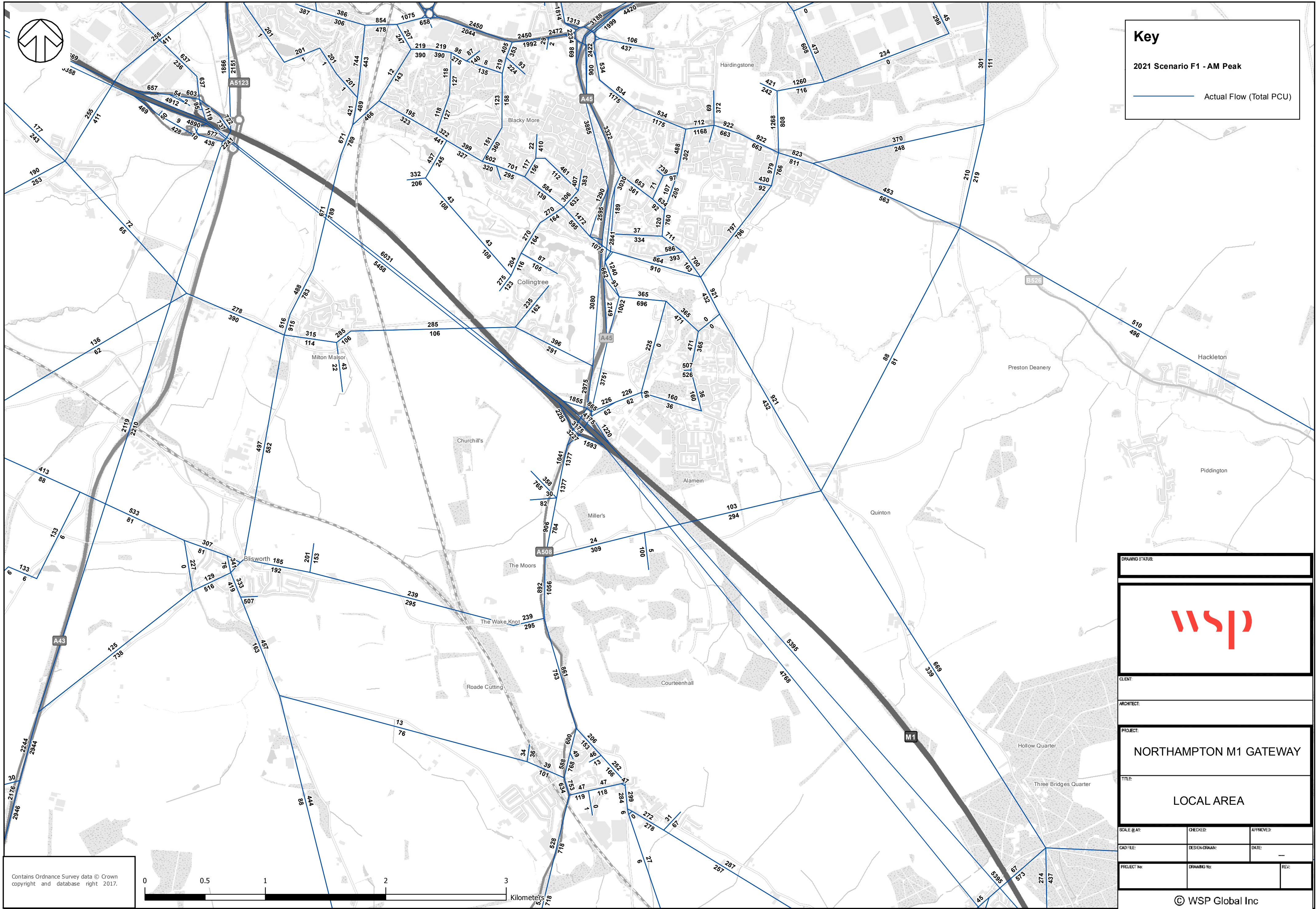
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	98	74	852	707	1187		2918
	B	18	0	43	5	29		95
	C	879	26	0	214	0		1119
	D	822	35	142	0	511		1510
	E	808	74	0	188	0		1070
	F							
	G							
TOTAL	2625	209	1037	1114	1727		6712	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	5	2	36	15	16		74
	B	1	0	0	0	1		2
	C	48	0	0	3	0		51
	D	38	1	7	0	17		63
	E	46	2	0	15	0		63
	F							
	G							
TOTAL	138	5	43	33	34		253	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	58	129	95		283
	B	0	0	44	2	70		116
	C	222	0	0	70	0		292
	D	111	6	58	0	146		321
	E	168	43	0	182	0		393
	F							
	G							
TOTAL	501	50	160	383	311		1405	

DfT 02/2013 CIRCULAR COMPLIANT
DEVELOPMENT CASE NO HIGHWAY MITIGATION
(SCENARIO F1)

NSTM2 Actual Flow Plots (link flows)



Key

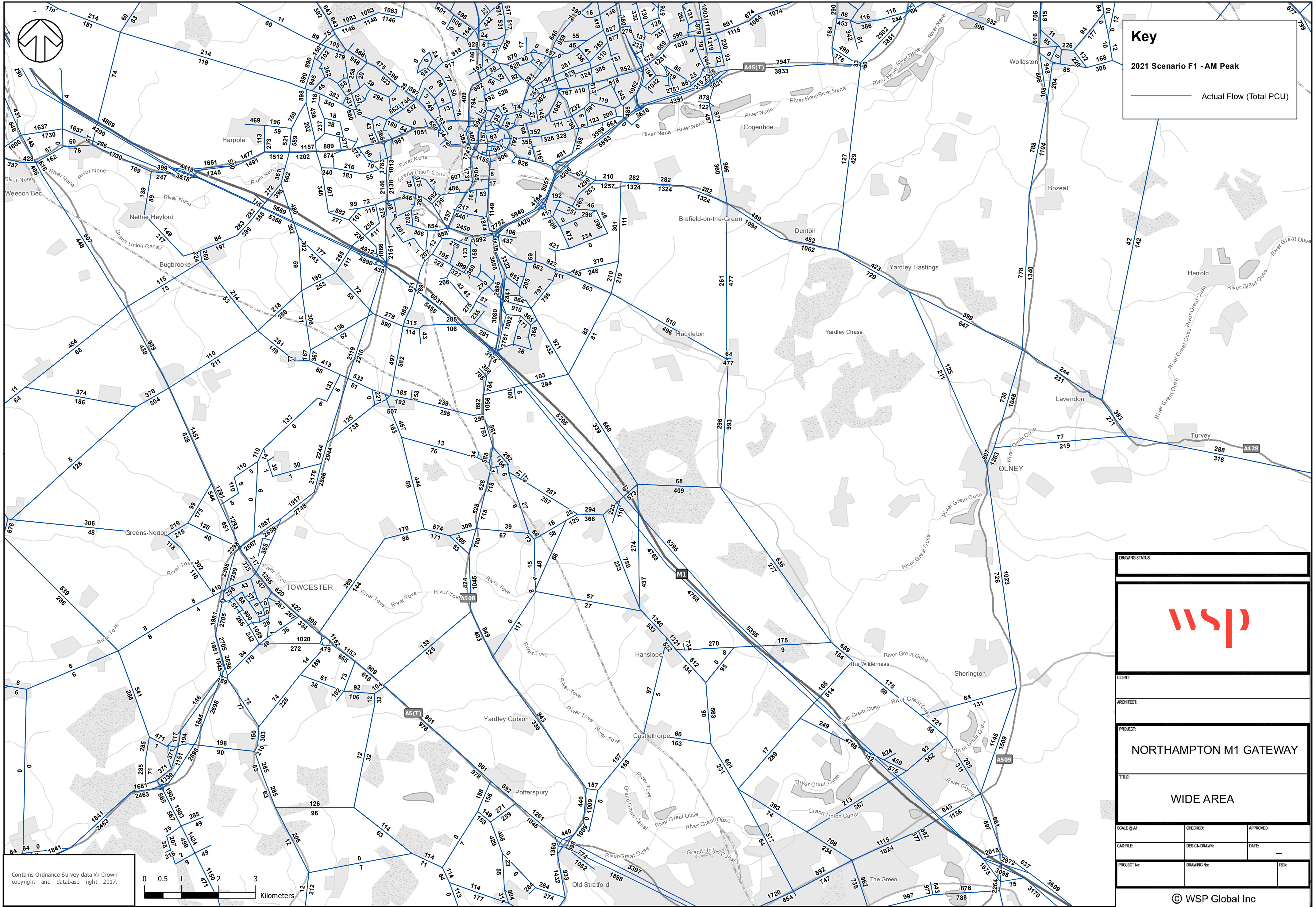
2021 Scenario F1 - AM Peak

— Actual Flow (Total PCU)

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT:		
NORTHAMPTON M1 GATEWAY		
TITLE:		
LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:
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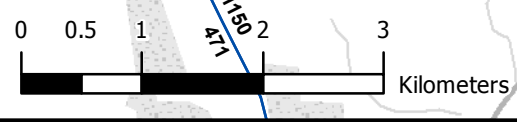
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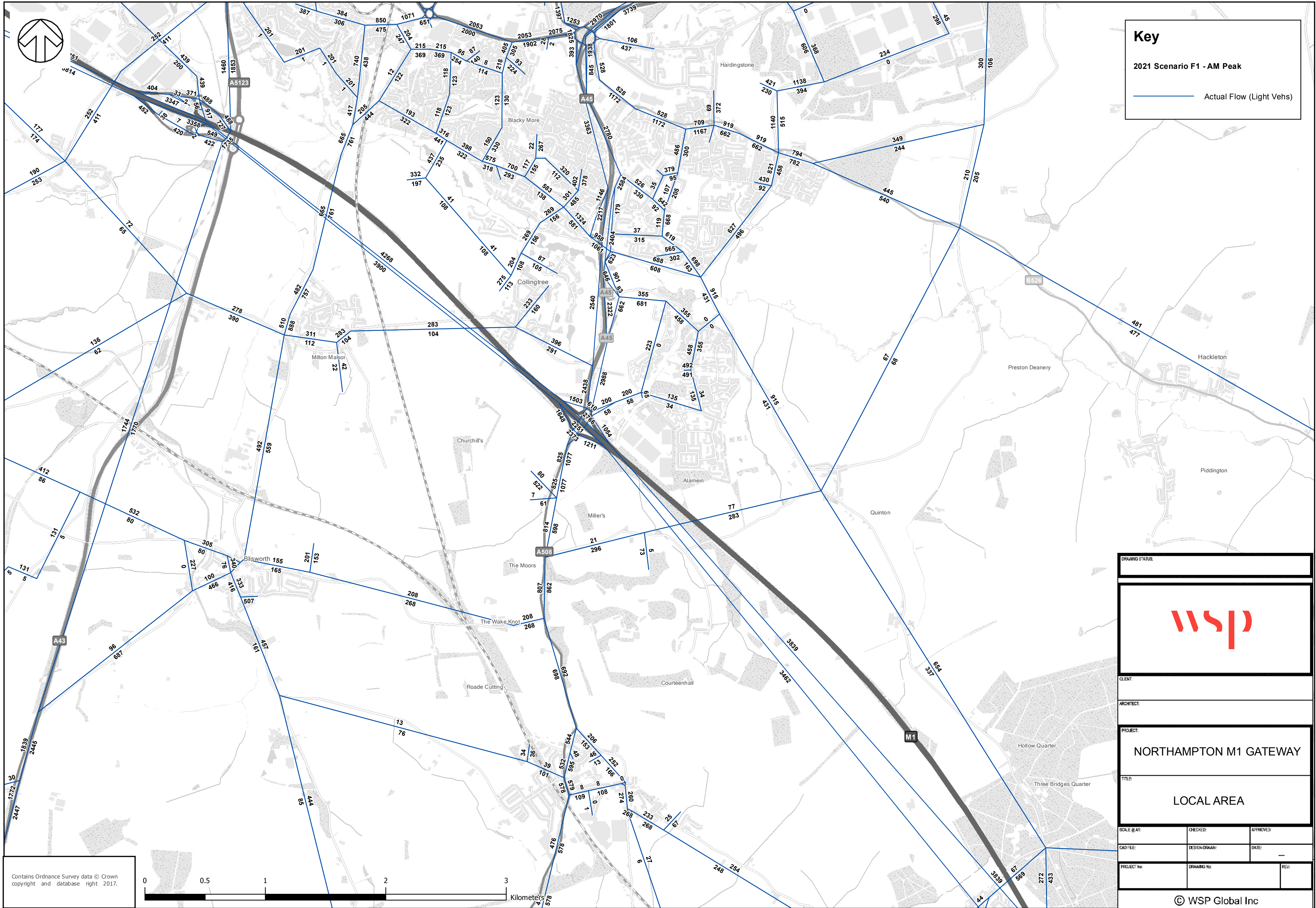
2021 Scenario F1 - AM Peak

— Actual Flow (Total PCU)

DRAWING STATUS:		
		
CLIENT:		
ARCHITECT:		
PROJECT:		
NORTHAMPTON M1 GATEWAY		
TITLE:		
WIDE AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:
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Key

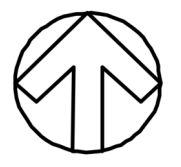
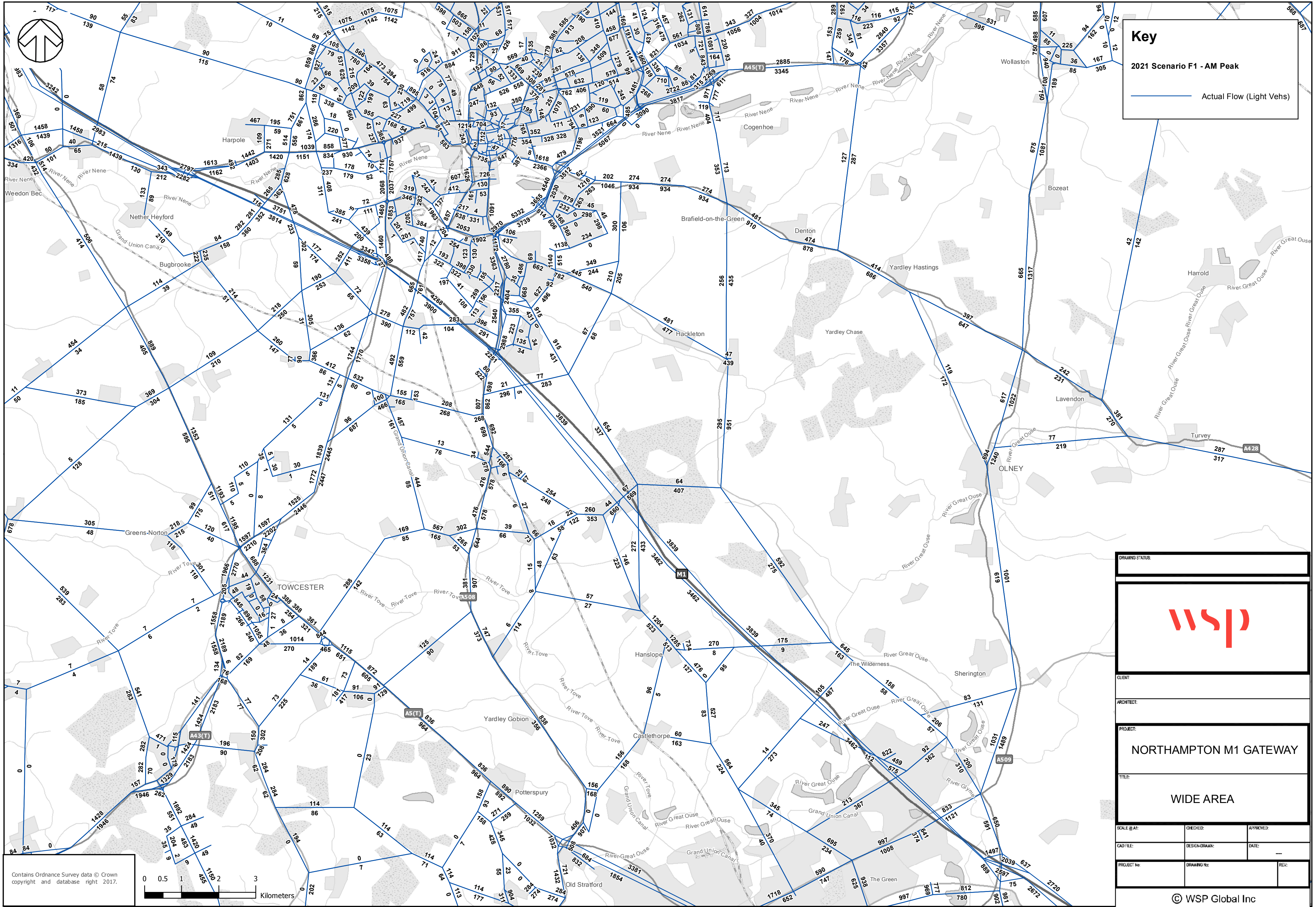
2021 Scenario F1 - AM Peak

— Actual Flow (Light Vhs)

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
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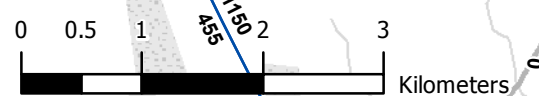


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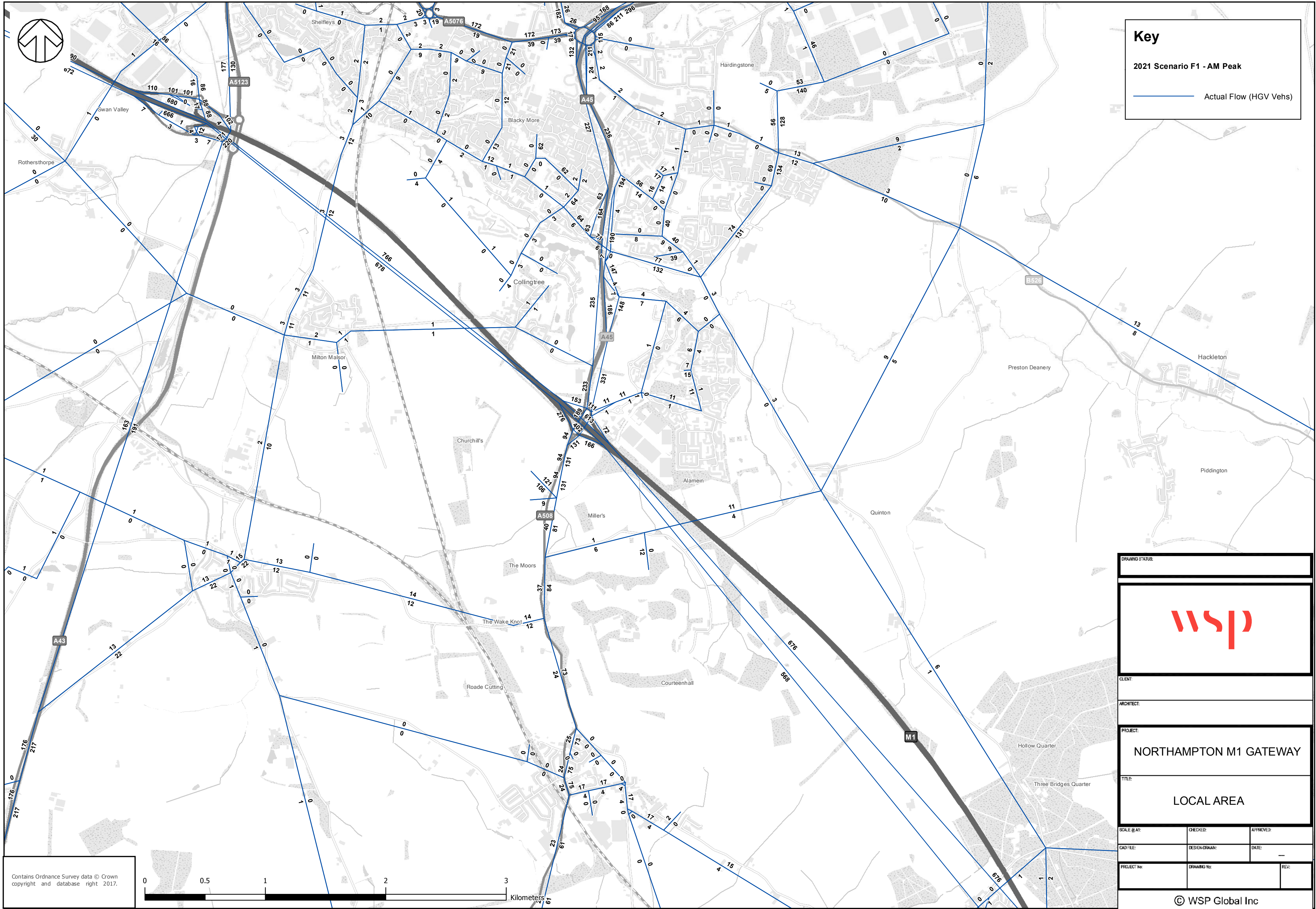
2021 Scenario F1 - AM Peak

— Actual Flow (Light Vehs)

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: WIDE AREA		
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CAD FILE:	DESIGN-DRAWN:	DATE:
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Key

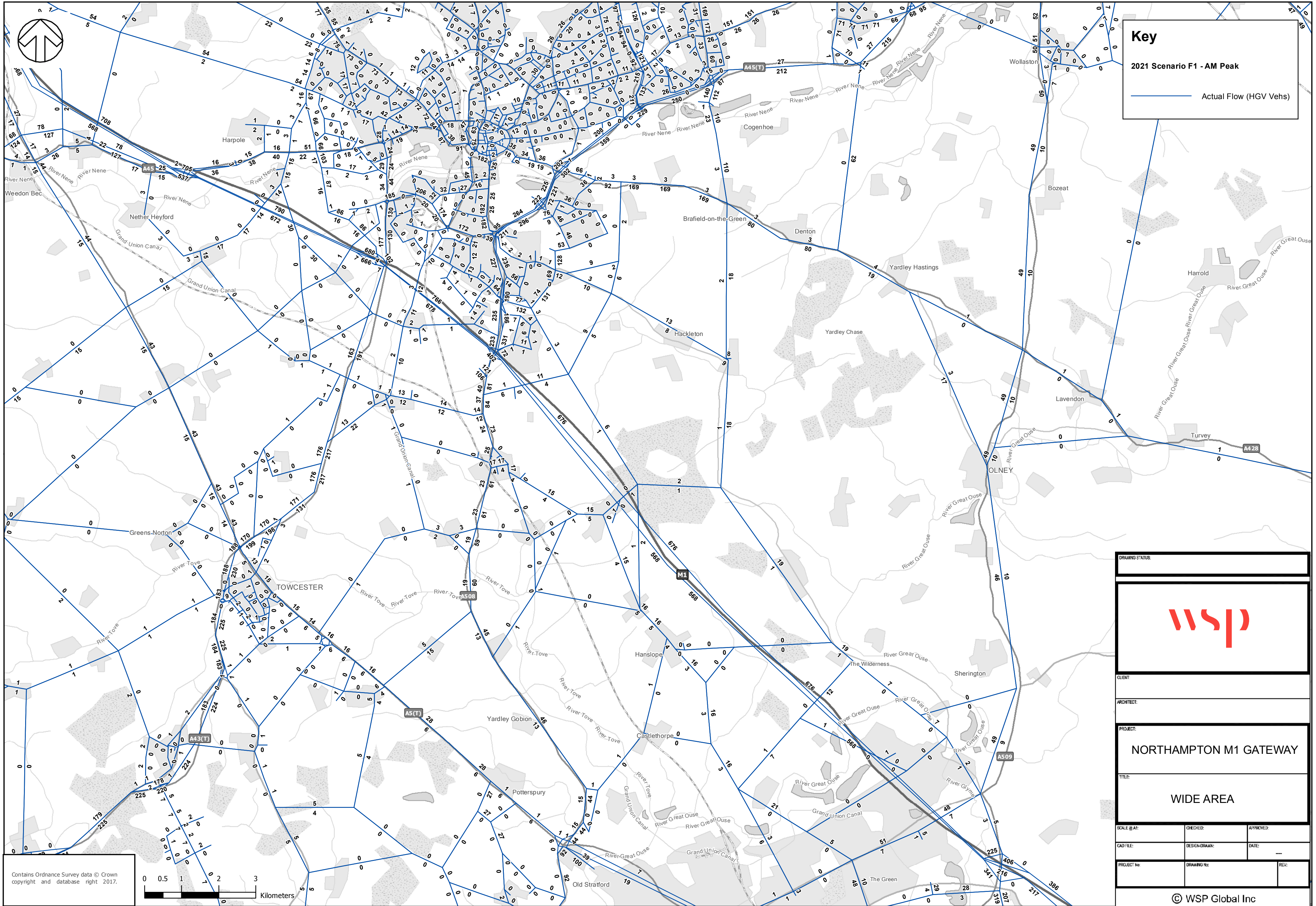
2021 Scenario F1 - AM Peak

— Actual Flow (HGV Vehs)

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DRAWING STATUS:		
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PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
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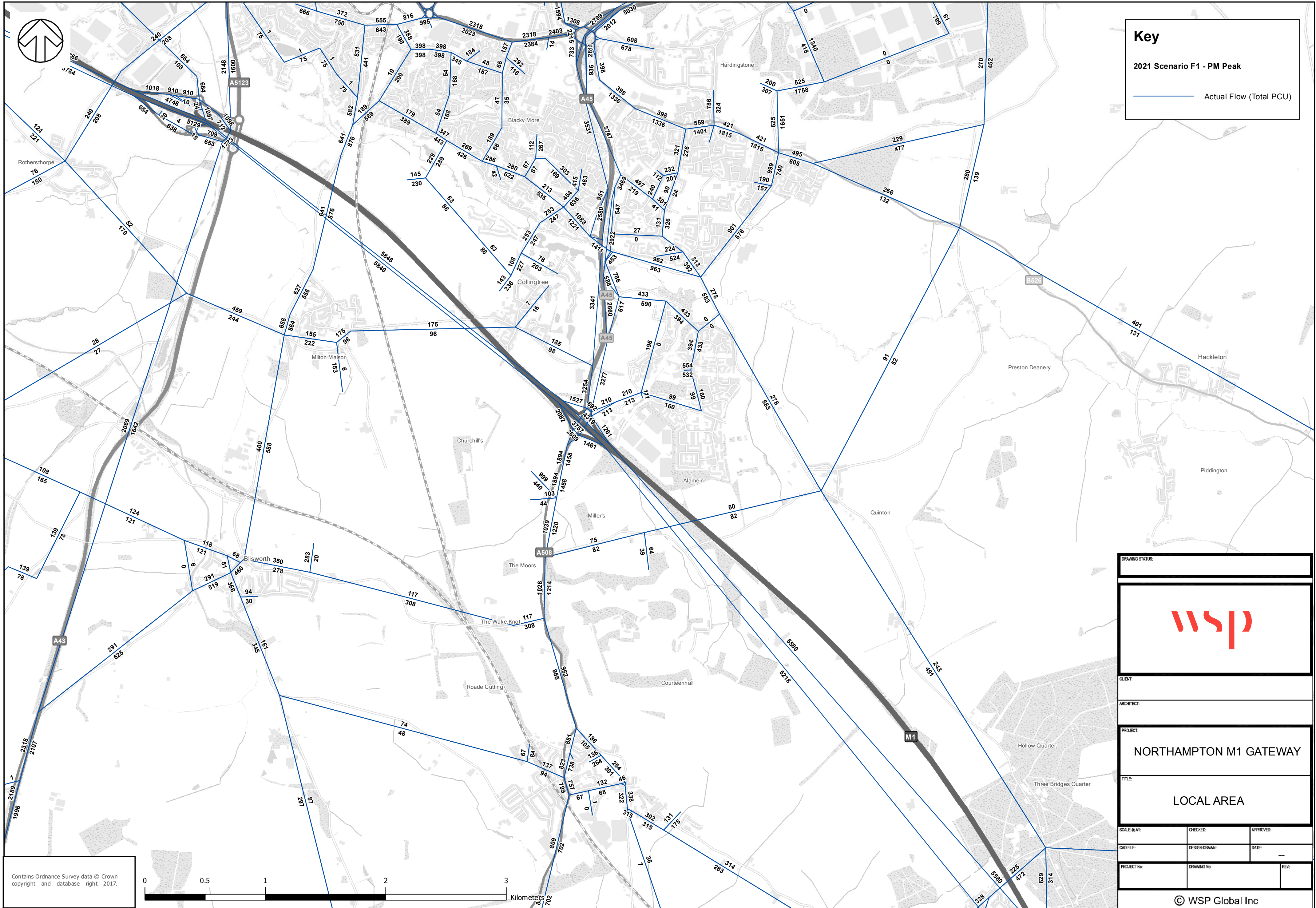
2021 Scenario F1 - AM Peak

— Actual Flow (HGV Vehs)

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DRAWING STATUS:		
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PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: WIDE AREA		
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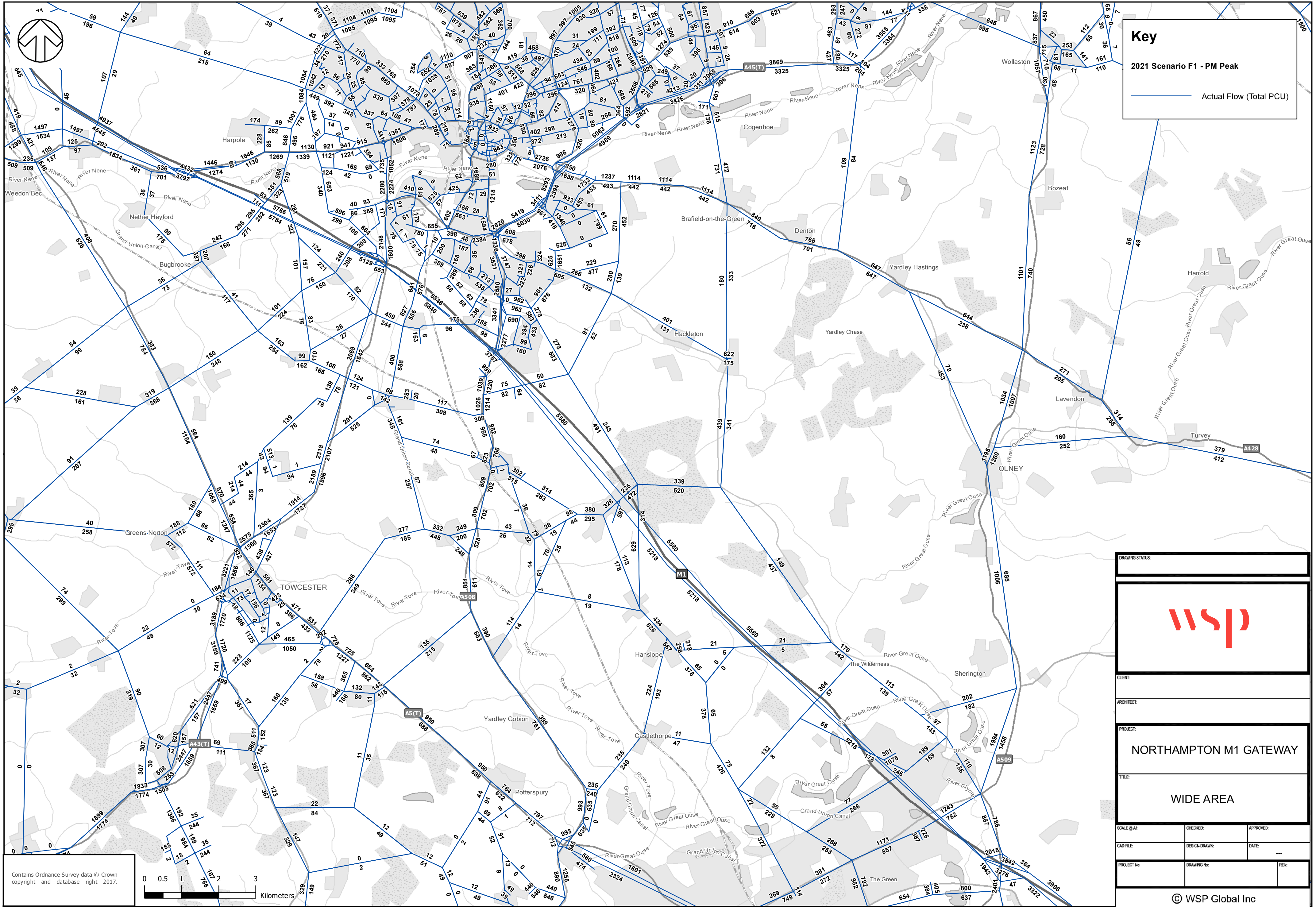
2021 Scenario F1 - PM Peak

— Actual Flow (Total PCU)

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT:		
NORTHAMPTON M1 GATEWAY		
TITLE:		
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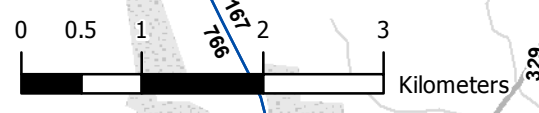



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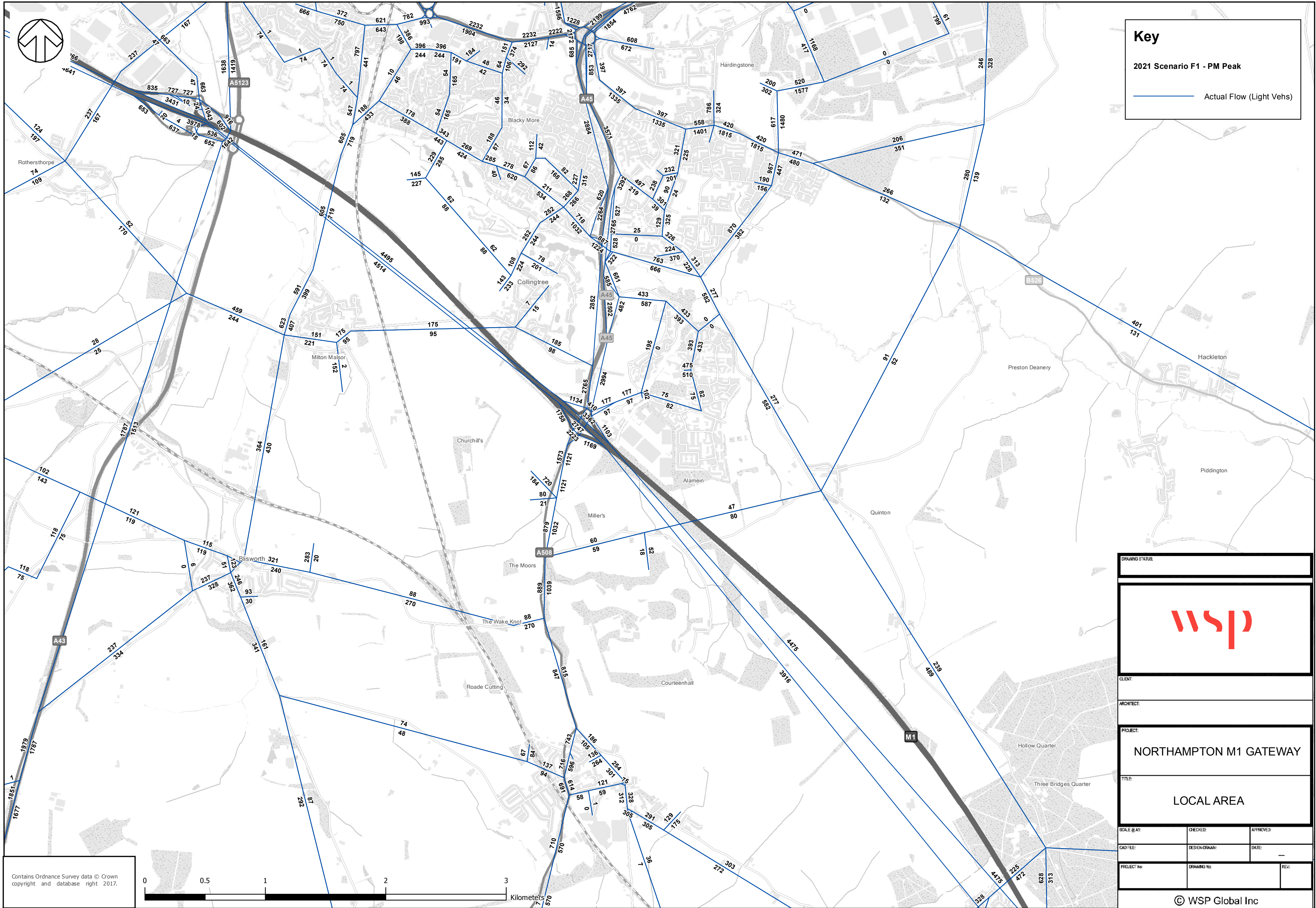
2021 Scenario F1 - PM Peak

— Actual Flow (Total PCU)

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ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: WIDE AREA		
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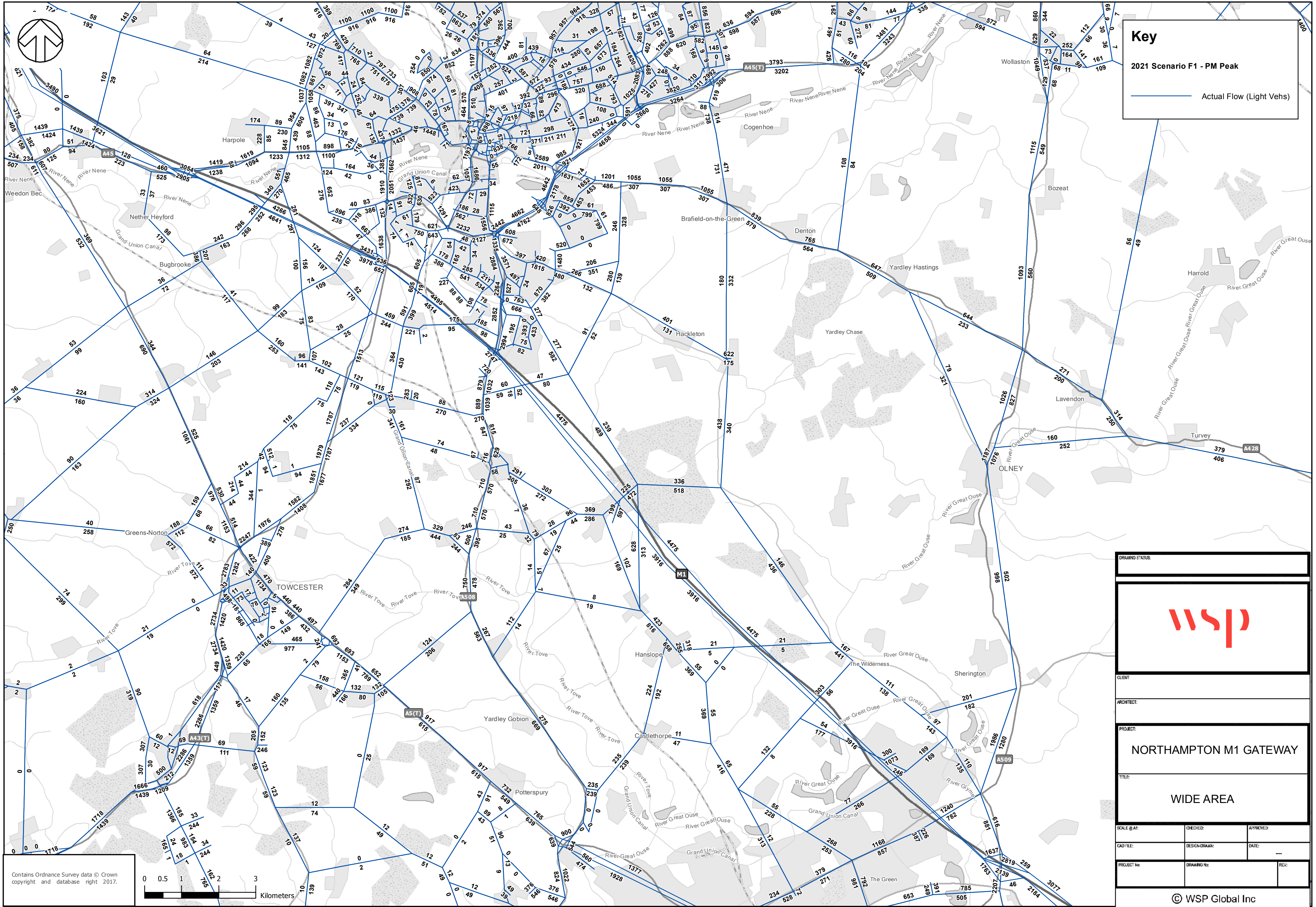
2021 Scenario F1 - PM Peak

— Actual Flow (Light Vehs)

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DRAWING STATUS:		
		
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PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
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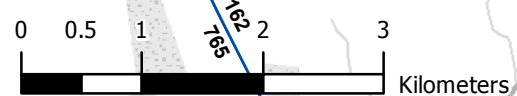


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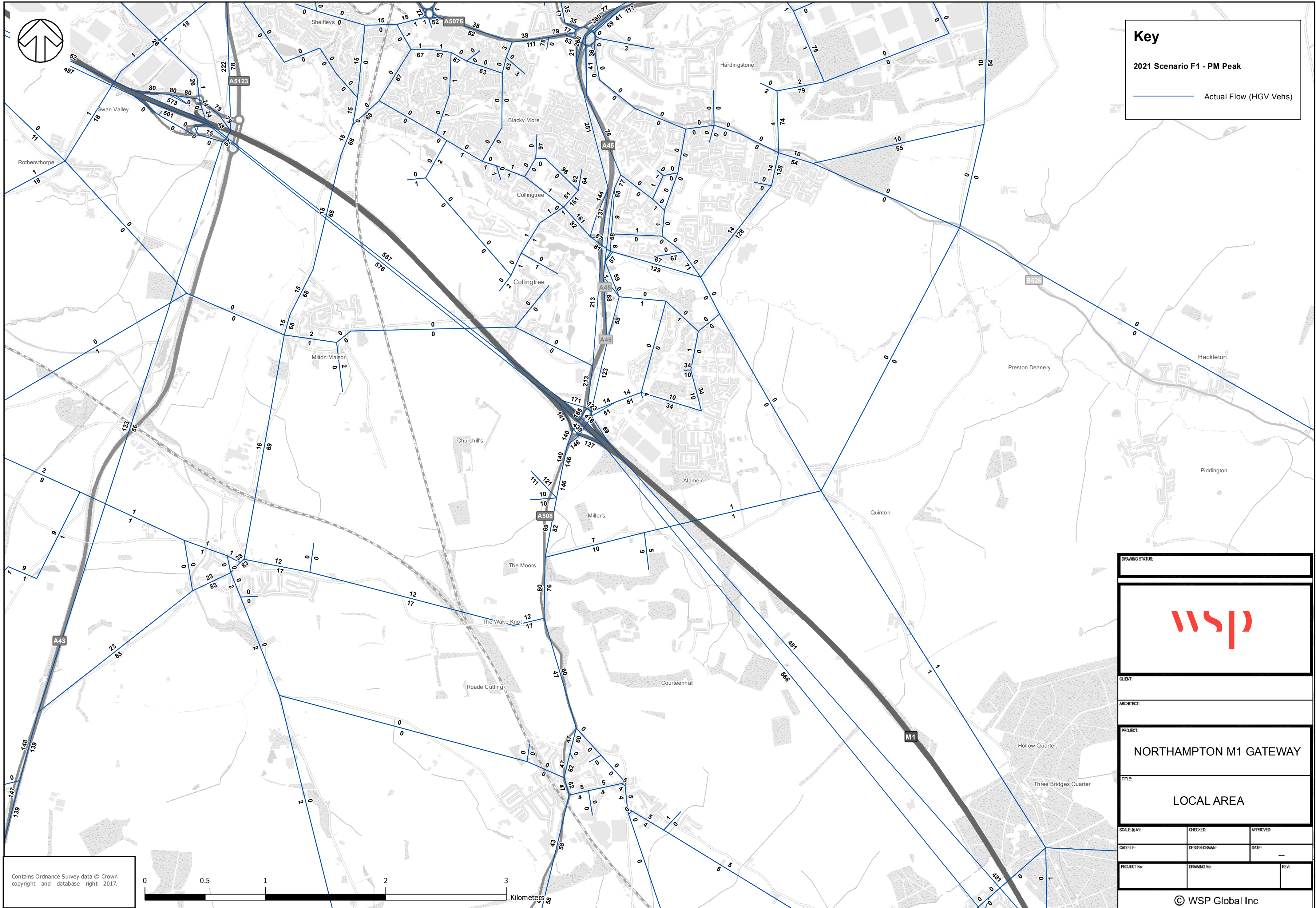
2021 Scenario F1 - PM Peak

— Actual Flow (Light Vehs)

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NORTHAMPTON M1 GATEWAY		
TITLE:		
WIDE AREA		
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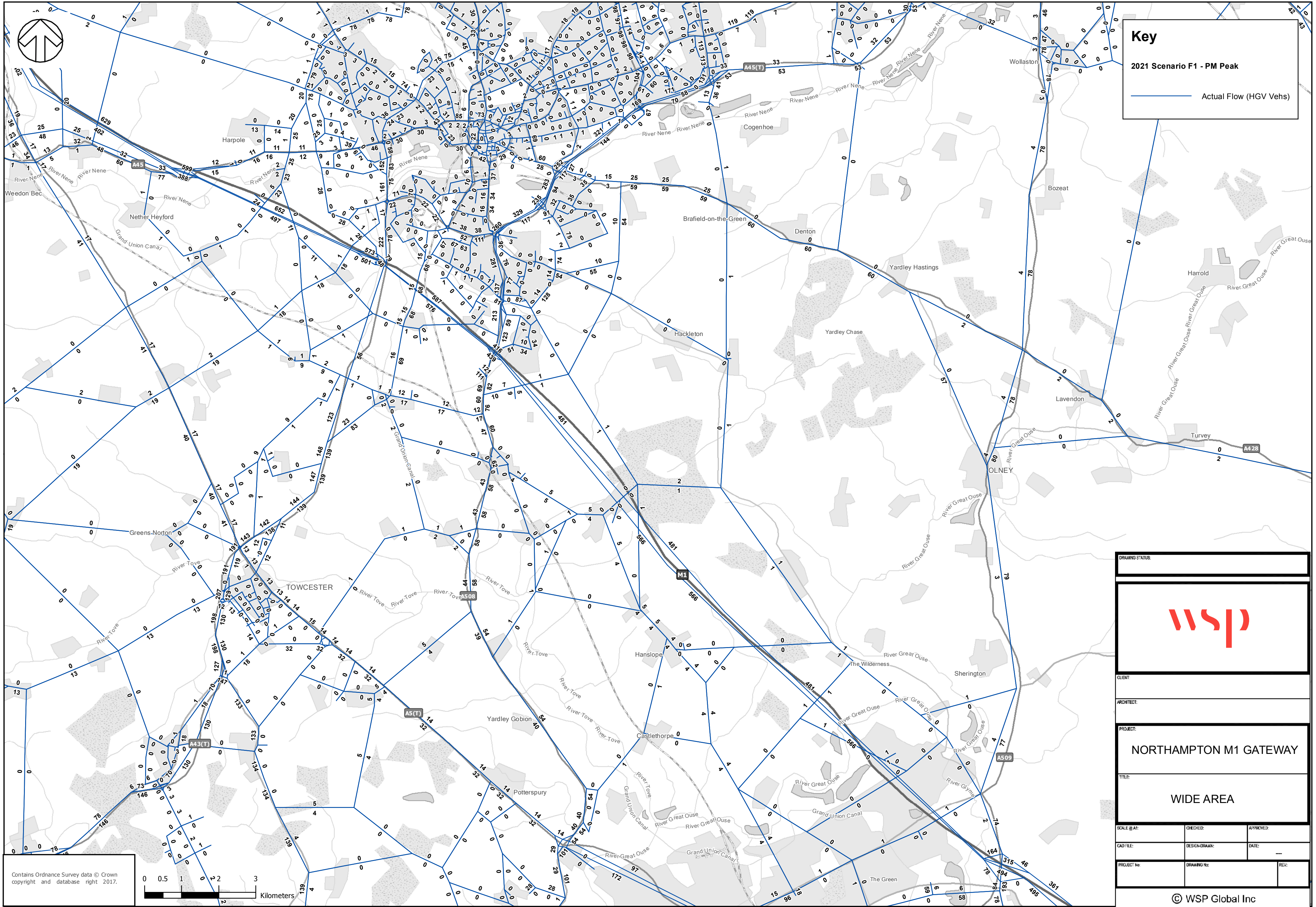
2021 Scenario F1 - PM Peak

— Actual Flow (HGV Vehs)

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ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
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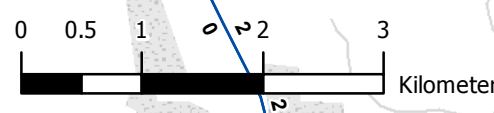



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2021 Scenario F1 - PM Peak

— Actual Flow (HGV Vehs)

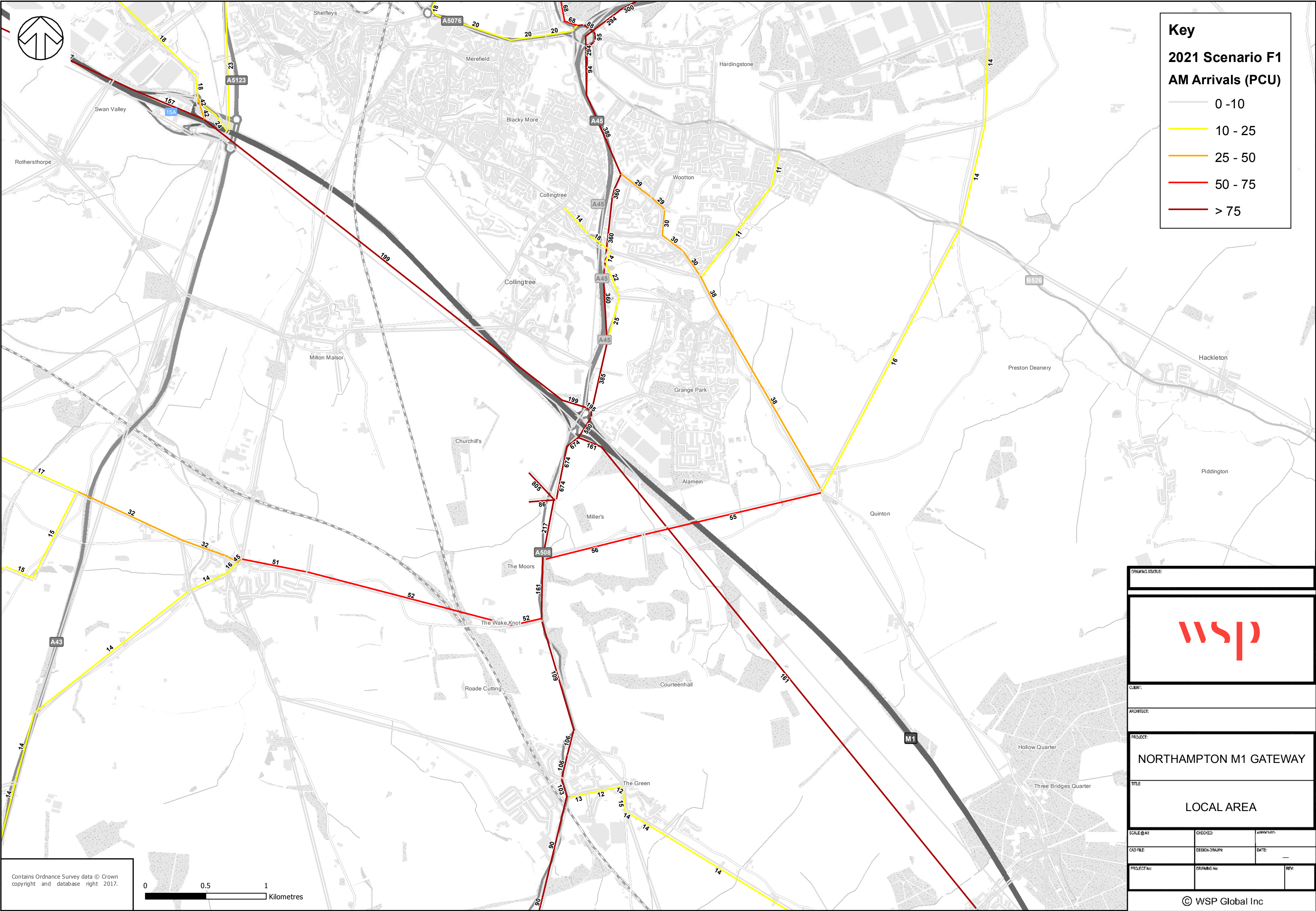
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SCALE @ A1:	CHECKED:	APPROVED:
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DEVELOPMENT CASE NO HIGHWAY MITIGATION
(SCENARIO F1)

NSTM2 Select Link Analysis



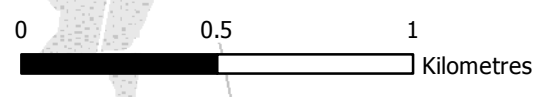
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2021 Scenario F1

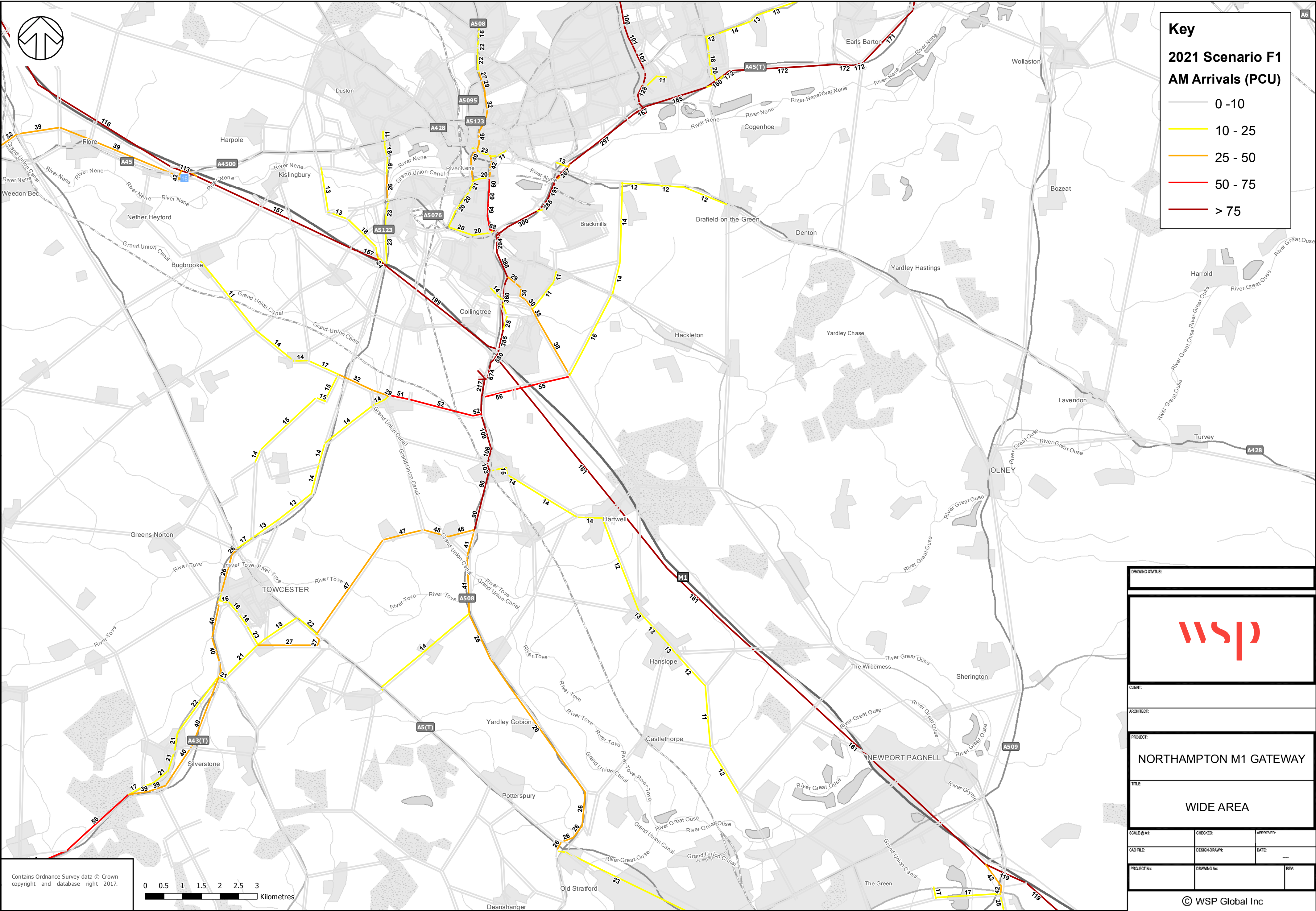
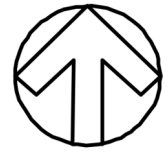
AM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:		
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TITLE: LOCAL AREA		
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Key

2021 Scenario F1


AM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:



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ARCHITECT:

PROJECT:

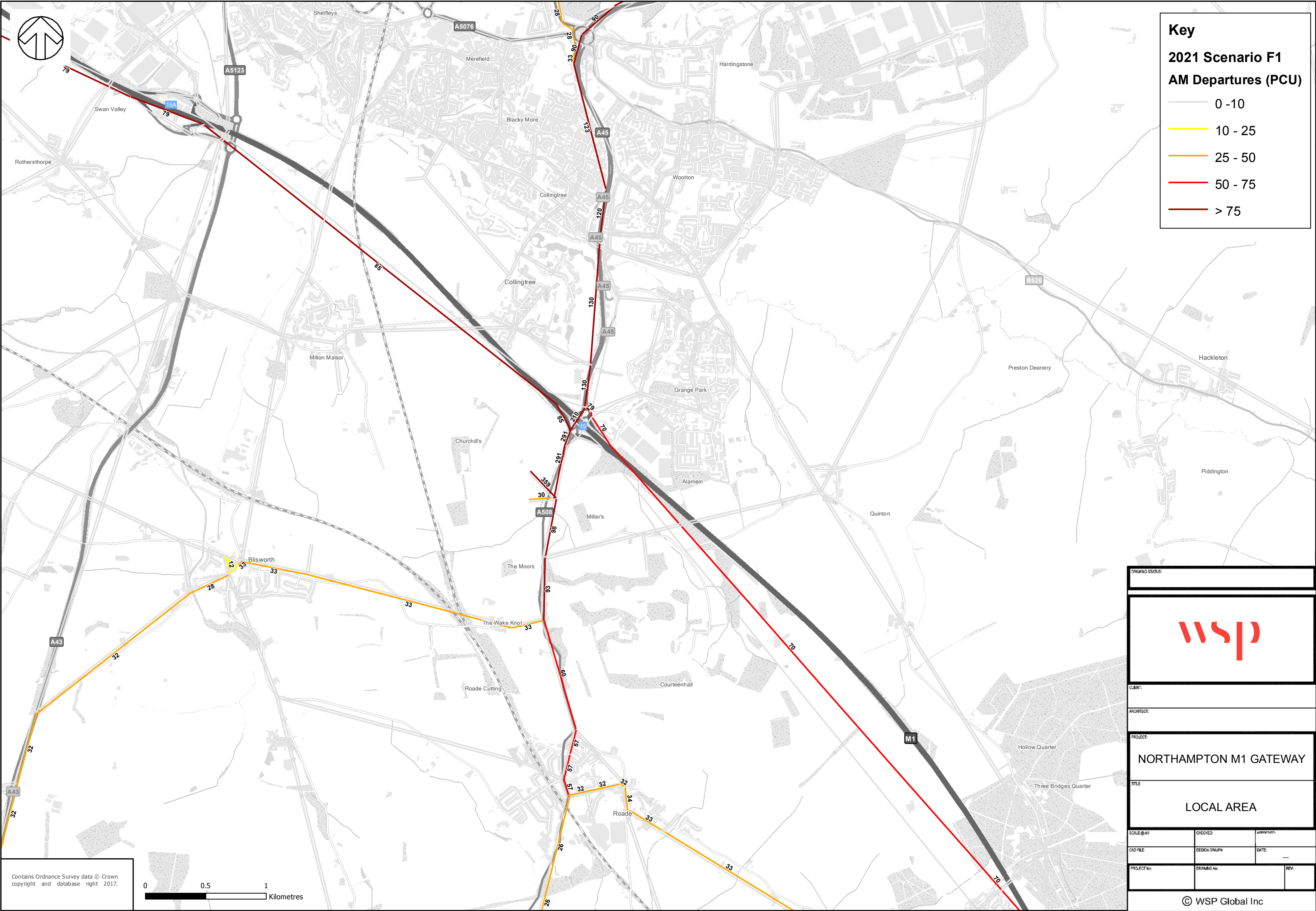
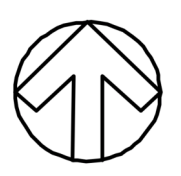
NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
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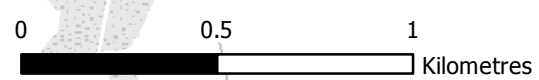
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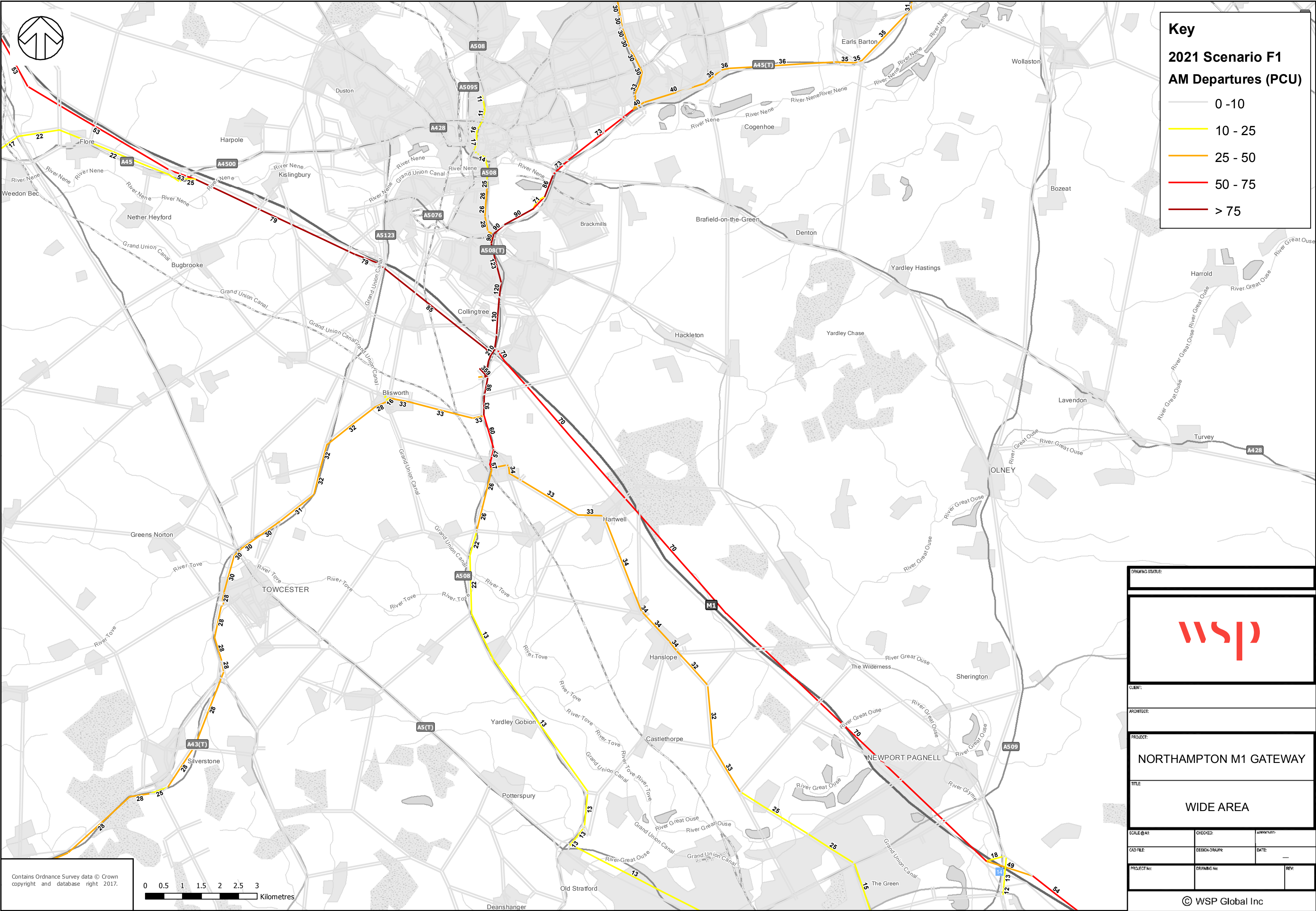
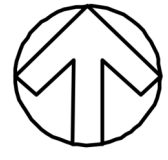
Key
2021 Scenario F1
AM Departures (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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CLIENT:		
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PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:



Key

2021 Scenario F1


AM Departures (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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ARCHITECT:

PROJECT:

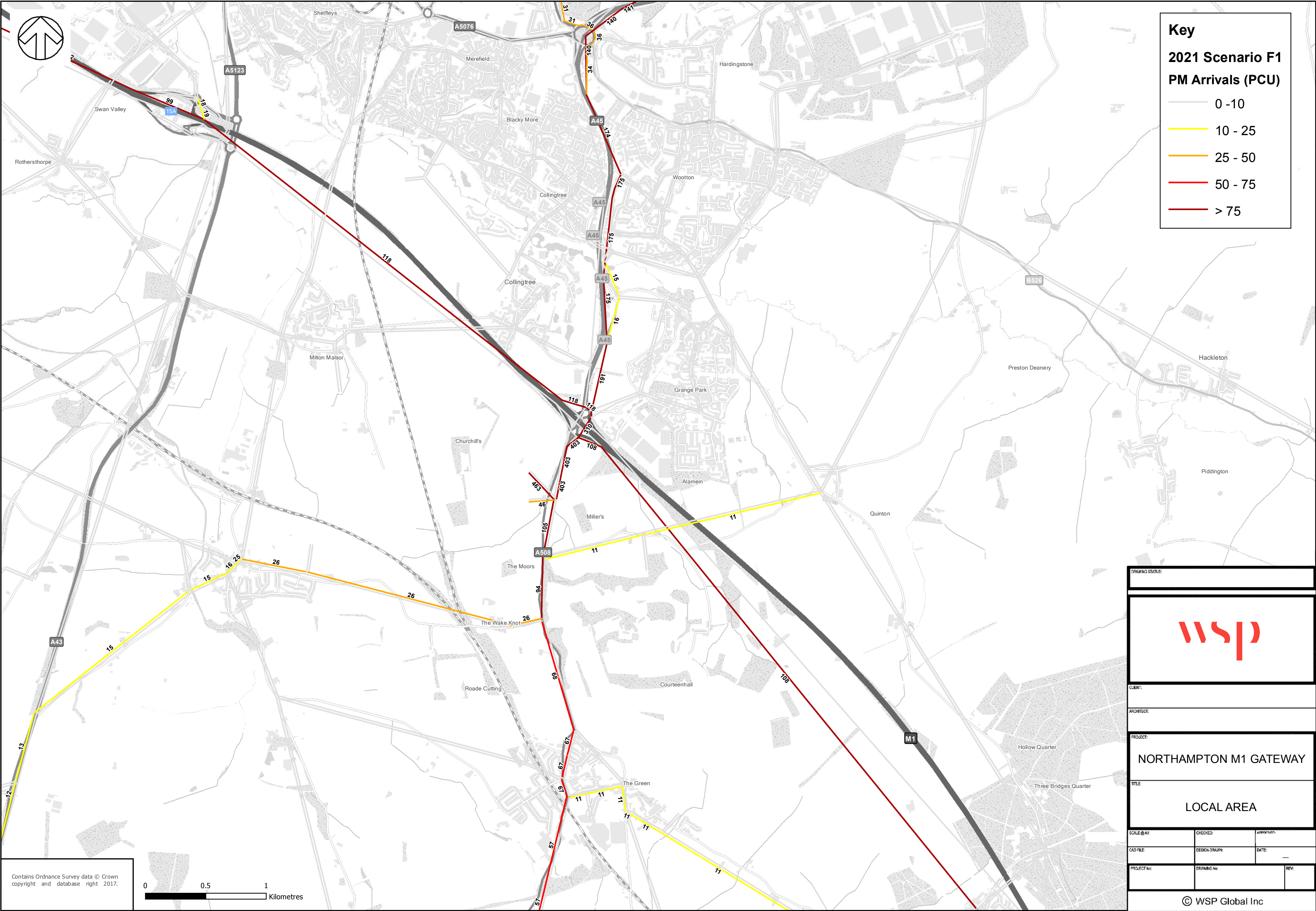
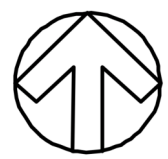
NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1	CHECKED:	APPROVED:
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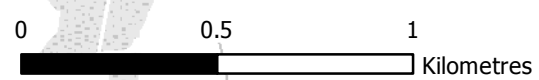
Key

2021 Scenario F1

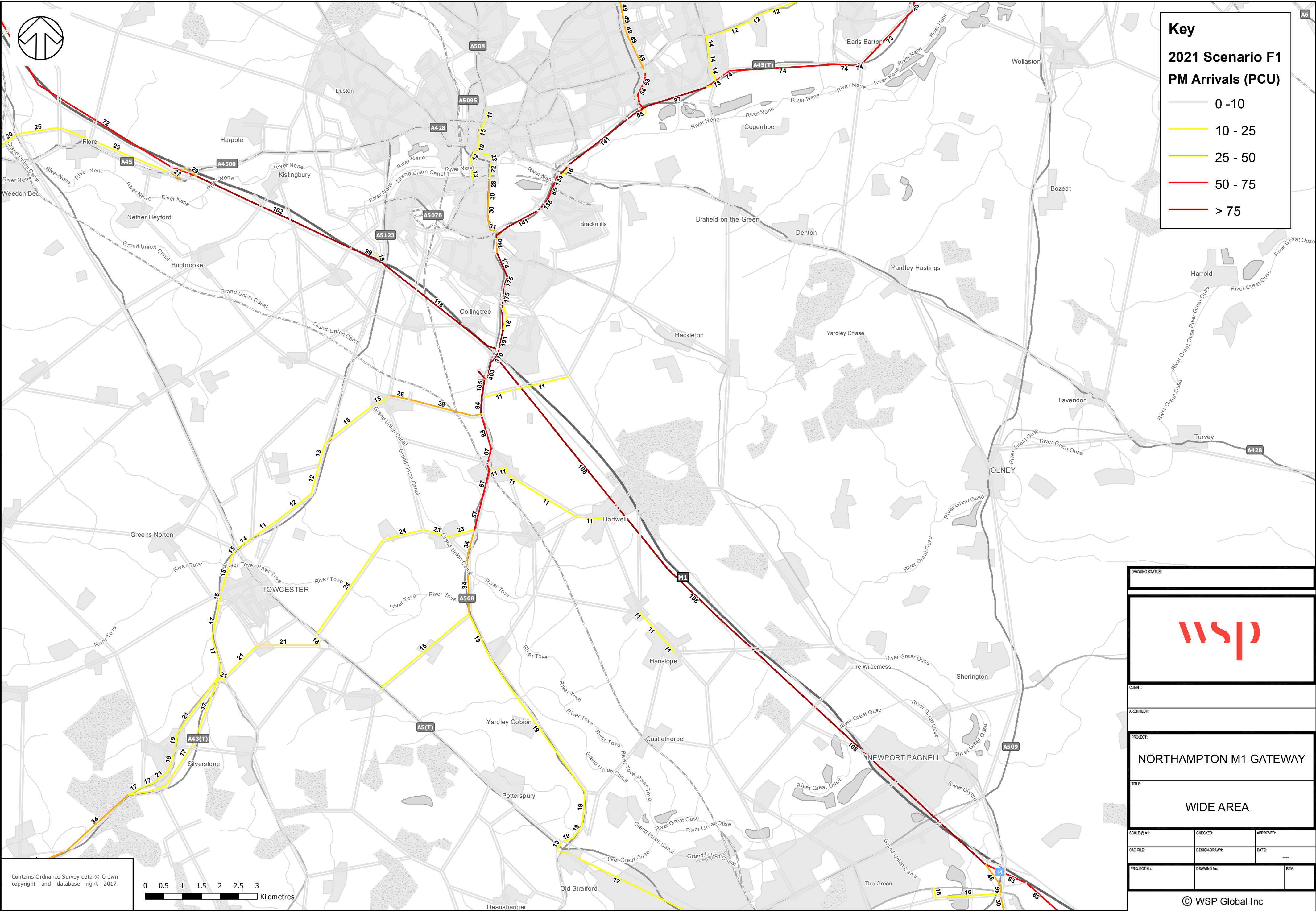
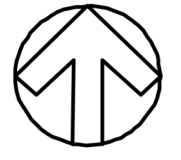
PM Arrivals (PCU)

—	0 - 10
—	10 - 25
—	25 - 50
—	50 - 75
—	> 75

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN/DRAWN:	DATE:
PROJECT No.:	DRAWING No.:	REV:



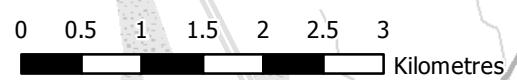
Key

2021 Scenario F1


PM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

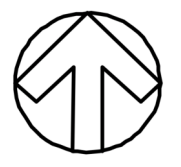
NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
PROJECT No:	DRAWING No:	REV:

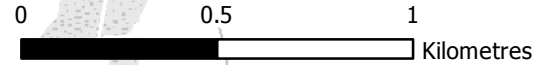
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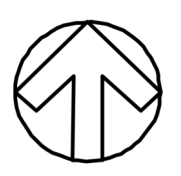
Key
2021 Scenario F1
PM Departures (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN/DRAWN:	DATE:
PROJECT No.:	DRAWING No.:	REV:
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Key

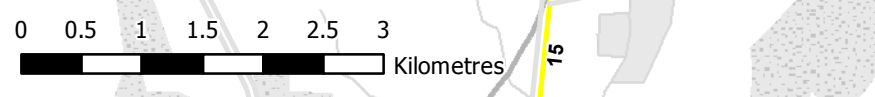
2021 Scenario F1

PM Departures (PCU)


- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75



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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
PROJECT No:	DRAWING No:	REV:

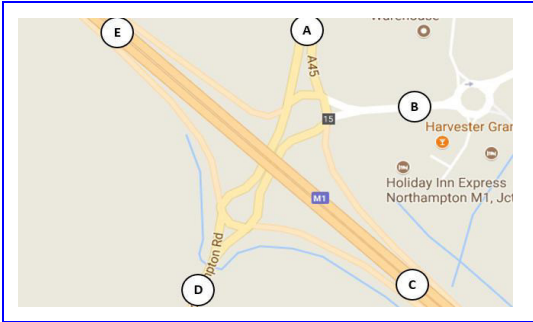
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DfT 02/2013 CIRCULAR COMPLIANT
DEVELOPMENT CASE WITH HIGHWAY MITIGATION
(SCENARIO I1)

NSTM2 Study Area Turning Counts

Junction Turning Flows

Junction: M1 Junction 15



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	3355	3104	9220	83008	A45
B	27014	83009	3104	27014	Saxon Avenue
C	83025	9221	83009	9107	M1 East
D	1252	9117	9221	1252	A508
E	83007	9220	9117	83011	M1 West
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM_2_2021_AM_I1.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	87	40	1015	1175	1553		3870
	B	26	0	32	15	27		100
	C	1523	76	0	231	0		1830
	D	544	21	176	39	578		1358
	E	1146	96	0	878	0		2120
	F							
	G							
TOTAL	3326	233	1223	2338	2158		9278	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	83	39	837	999	1153		3111
	B	26	0	30	13	26		95
	C	1149	49	0	153	0		1351
	D	391	20	109	0	427		947
	E	916	96	0	644	0		1656
	F							
	G							
TOTAL	2565	204	976	1809	1606		7160	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	4	1	69	74	42		190
	B	0	0	1	0	1		2
	C	83	0	0	7	0		90
	D	34	0	1	0	9		44
	E	58	0	0	17	0		75
	F							
	G							
TOTAL	179	1	71	98	52		401	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	109	102	358		569
	B	0	0	1	2	0		3
	C	291	27	0	71	0		389
	D	119	1	66	39	142		367
	E	172	0	0	217	0		389
	F							
	G							
TOTAL	582	28	176	431	500		1717	

PMNSTM_2_2021_PM_I1.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	93	76	862	1087	1270		3388
	B	16	0	81	9	109		215
	C	1474	31	0	209	0		1714
	D	1103	24	195	53	814		2189
	E	879	103	0	516	0		1498
	F							
	G							
TOTAL	3565	234	1138	1874	2193		9004	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	90	73	757	936	1168		3024
	B	16	0	39	7	34		96
	C	1201	31	0	138	0		1370
	D	953	23	122	0	636		1734
	E	665	70	0	279	0		1014
	F							
	G							
TOTAL	2925	197	918	1360	1838		7238	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	3	2	35	16	14		70
	B	0	0	1	0	1		2
	C	53	0	0	2	0		55
	D	39	0	6	0	16		61
	E	50	2	0	30	0		82
	F							
	G							
TOTAL	145	4	42	48	31		270	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	70	135	88		294
	B	0	0	41	2	74		117
	C	220	0	0	69	0		289
	D	111	1	67	53	162		394
	E	164	31	0	207	0		402
	F							
	G							
TOTAL	495	33	178	466	324		1496	

Junction Turning Flows

Junction: **M1 Junction 15a**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	21265	21266	21266	21265	Swan Valley Way
B	2102	3246	3246	2102	A5123
C	1246	82005	82001	5246	M1 East
D	2309	4246	4246	2309	A43
E	6246	2266	82004	24119	M1 West
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM_2_2021_AM_I1.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	676	100	0		776
	B	0	0	199	1864	247		2311
	C	18	287	0	409	1		715
	D	133	1251	276	0	477		2137
	E	2	346	0	384	0		732
	F							
	G							
TOTAL	154	1884	1151	2758	725		6671	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	428	99	0		527
	B	0	0	186	1505	191		1882
	C	16	212	0	367	1		596
	D	128	864	266	0	461		1719
	E	2	333	0	144	0		479
	F							
	G							
TOTAL	146	1409	879	2116	652		5202	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	54	1	0		55
	B	0	0	6	116	8		131
	C	2	32	0	27	0		61
	D	4	51	10	0	8		72
	E	0	8	0	38	0		47
	F							
	G							
TOTAL	6	91	71	182	16		365	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	194	1	0		195
	B	0	0	6	243	49		298
	C	1	43	0	15	0		59
	D	1	337	0	0	8		346
	E	0	5	0	202	0		207
	F							
	G							
TOTAL	2	385	201	460	57		1104	

PMNSTM_2_2021_PM_I1.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	601	138	0		739
	B	0	0	297	1098	247		1642
	C	172	604	0	141	0		916
	D	86	1291	250	0	484		2112
	E	7	578	0	393	0		979
	F							
	G							
TOTAL	265	2473	1148	1770	732		6388	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	562	132	0		694
	B	0	0	252	898	234		1384
	C	30	546	0	130	0		705
	D	83	968	243	0	460		1754
	E	7	390	0	383	0		779
	F							
	G							
TOTAL	120	1903	1057	1542	694		5317	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	34	6	0		40
	B	0	0	7	57	3		67
	C	1	19	0	1	0		21
	D	3	40	7	0	24		74
	E	0	16	0	9	0		25
	F							
	G							
TOTAL	4	74	48	73	28		228	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	5	0	0		5
	B	0	0	37	143	10		190
	C	141	39	0	10	0		190
	D	0	284	0	0	0		284
	E	0	173	0	1	0		174
	F							
	G							
TOTAL	141	496	42	154	10		844	

Junction Turning Flows

Junction: A45/Watering Ln



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A			2104	2093	A45 North
B	83008	2104			A45 South
C	1104	2104	2104	1104	Watering Lane
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2021 AM I1.DAT

		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	0	0					0
	B	2884	0	347					3231
	C	303	0	0					303
	D								
	E								
	F								
	G								
TOTAL		3187	0	347					3534

By Vehicle Type:

		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	0	0					0
	B	2180	0	299					2479
	C	283	0	0					283
	D								
	E								
	F								
	G								
TOTAL		2463	0	299					2762

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	0	0					0
	B	140	0	48					188
	C	20	0	0					20
	D								
	E								
	F								
	G								
TOTAL		160	0	48					208

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	0	0					0
	B	564	0	0					564
	C	0	0	0					0
	D								
	E								
	F								
	G								
TOTAL		564	0	0					564

PMNSTM 2 2021 PM I1.DAT

		MODELLED							TOTAL
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	
	A	0	0	0					0
	B	3340	0	257					3597
	C	129	0	0					129
	D								
	E								
	F								
	G								
TOTAL		3469	0	257					3726

By Vehicle Type:

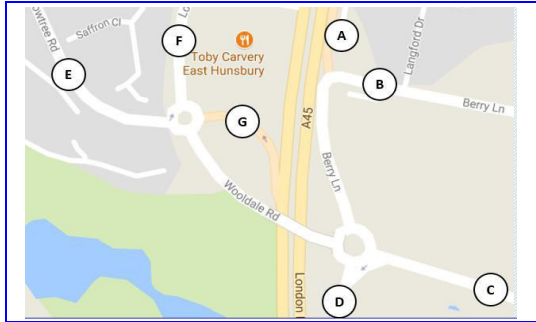
		MODELLED							TOTAL
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	
	A	0	0	0					0
	B	2709	0	250					2959
	C	94	0	0					94
	D								
	E								
	F								
	G								
TOTAL		2803	0	250					3053

		MODELLED							TOTAL
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	
	A	0	0	0					0
	B	135	0	7					142
	C	35	0	0					35
	D								
	E								
	F								
	G								
TOTAL		170	0	7					177

		MODELLED							TOTAL
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	
	A	0	0	0					0
	B	496	0	0					496
	C	0	0	0					0
	D								
	E								
	F								
	G								
TOTAL		496	0	0					496

Junction Turning Flows

Junction: **A45 Wootton Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	6082	5082			A45 SB Off-slip
B	4082	5082	5082	4082	Berry Lane East
C	3081	75031	75031	3081	Wooldale Road
D	1355	75032	75032	1355	unnamed road
E	24752	1093	1093	24752	Rowtree Road
F			1093	26031	London Road
G	2093	1093			A45 NB On-slip

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM_2_2021_AM_I1.DAT

		MODELLED							
		To Arm							
PCU		A	B	C	D	E	F	G	TOTAL
From Arm	A	0	2	0	0	161	32	0	195
	B	0	0	0	196	52	119	0	367
	C	0	0	0	675	119	144	0	938
	D	0	25	166	0	80	384	0	655
	E	0	31	316	484	0	671	0	1502
	F	0	0	0	0	0	0	0	0
	G	0	40	365	16	155	0	0	576
	TOTAL	0	98	847	1371	567	1350	0	4233

By Vehicle Type:

		MODELLED							
		To Arm							
Car		A	B	C	D	E	F	G	TOTAL
From Arm	A	0	2	0	0	144	31	0	177
	B	0	0	0	175	52	116	0	343
	C	0	0	0	345	115	143	0	603
	D	0	25	151	0	80	368	0	624
	E	0	30	305	480	0	505	0	1320
	F	0	0	0	0	0	0	0	0
	G	0	27	207	15	135	0	0	384
	TOTAL	0	84	663	1015	526	1163	0	3451

		MODELLED							
		To Arm							
LGV		A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0	0	7	1	0	8
	B	0	0	0	3	0	2	0	5
	C	0	0	0	25	4	1	0	30
	D	0	0	2	0	0	14	0	16
	E	0	1	11	2	0	21	0	35
	F	0	0	0	0	0	0	0	0
	G	0	1	15	1	6	0	0	23
	TOTAL	0	2	28	31	17	39	0	117

		MODELLED							
		To Arm							
HGV (PCU)		A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0	0	10	0	0	10
	B	0	0	0	18	0	1	0	19
	C	0	0	0	305	0	0	0	305
	D	0	0	13	0	0	2	0	15
	E	0	0	0	2	0	145	0	147
	F	0	0	0	0	0	0	0	0
	G	0	12	143	0	14	0	0	169
	TOTAL	0	12	156	325	24	148	0	665

PMNSTM_2_2021_PM_I1.DAT

		MODELLED							
		To Arm							
PCU		A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	12	0	473	62	0	547
	B	0	0	0	0	0	0	0	0
	C	0	0	0	476	318	124	0	918
	D	0	23	238	0	71	252	0	584
	E	0	10	210	329	0	570	0	1119
	F	0	0	0	0	0	0	0	0
	G	0	25	503	9	240	0	0	777
	TOTAL	0	58	963	814	1102	1008	0	3945

By Vehicle Type:

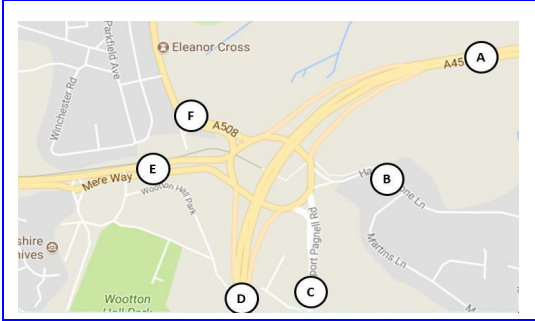
		MODELLED							
		To Arm							
Car		A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	12	0	446	60	0	518
	B	0	0	0	0	0	0	0	0
	C	0	0	0	306	167	120	0	593
	D	0	23	221	0	70	243	0	557
	E	0	9	174	322	0	208	0	713
	F	0	0	0	0	0	0	0	0
	G	0	23	315	4	220	0	0	562
	TOTAL	0	55	722	632	903	631	0	2943

		MODELLED							
		To Arm							
LGV		A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0	0	9	2	0	11
	B	0	0	0	0	0	0	0	0
	C	0	0	0	19	3	4	0	26
	D	0	0	17	0	1	7	0	25
	E	0	1	7	5	0	23	0	36
	F	0	0	0	0	0	0	0	0
	G	0	0	18	5	12	0	0	35
	TOTAL	0	1	42	29	25	36	0	133

		MODELLED							
		To Arm							
HGV (PCU)		A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0	0	18	0	0	18
	B	0	0	0	0	0	0	0	0
	C	0	0	0	151	148	0	0	299
	D	0	0	0	0	2	0	0	2
	E	0	0	29	2	0	339	0	370
	F	0	0	0	0	0	0	0	0
	G	0	2	170	0	8	0	0	180
	TOTAL	0	2	199	153	174	341	0	869

Junction Turning Flows

Junction: **A45 Queen Eleanor Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9168	2092	60137	9162	A45 North
B	1081	1079	1079	1081	Hardington Lane
C	24742	3082	3082	24742	Newport Pagnell Rd
D	9161	60134	60133	9169	A45 South
E	60203	1092	1092	60203	Mere Way
F	2088	60136	60136	2088	A508 - London Road
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM_2_2021_AM_I1.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	59	100	0	1403	451	2013
	B	221	0	0	5	110	130	466
	C	176	0	0	0	469	555	1200
	D	0	0	0	0	23	632	655
	E	1814	20	382	268	0	2	2486
	F	350	8	270	649	34	0	1311
	G							
	TOTAL	2561	87	752	922	2039	1770	8131

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	54	96	0	1102	343	1595
	B	218	0	0	5	109	128	460
	C	175	0	0	0	465	545	1185
	D	0	0	0	0	22	278	300
	E	1400	19	361	255	0	2	2037
	F	340	8	259	578	32	0	1217
	G							
	TOTAL	2133	81	716	838	1730	1296	6794

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	5	4	0	89	33	131
	B	3	0	0	0	1	2	6
	C	1	0	0	0	3	7	11
	D	0	0	0	0	0	37	37
	E	42	1	4	11	0	0	58
	F	7	0	4	24	1	0	36
	G							
	TOTAL	53	6	12	35	94	79	279

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	0	212	75	287
	B	0	0	0	0	0	0	0
	C	0	0	0	0	1	3	4
	D	0	0	0	0	1	317	318
	E	372	0	17	2	0	0	391
	F	3	0	7	47	1	0	58
	G							
	TOTAL	375	0	24	49	215	395	1058

PMNSTM_2_2021_PM_I1.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	335	57	0	1299	323	2014
	B	456	0	0	11	40	148	655
	C	214	0	0	0	618	496	1328
	D	0	21	0	0	61	643	725
	E	1593	181	339	296	0	2	2411
	F	314	109	236	599	44	0	1302
	G							
	TOTAL	2577	646	632	906	2062	1612	8435

By Vehicle Type:

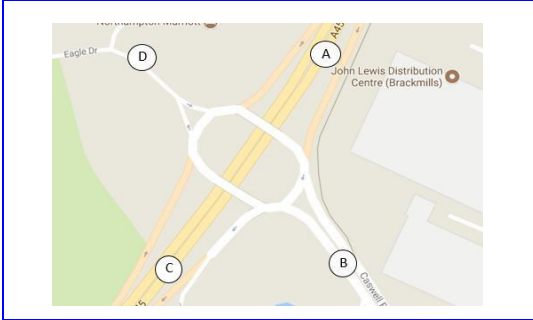
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	333	57	0	1063	303	1756
	B	436	0	0	11	39	144	630
	C	213	0	0	0	598	474	1285
	D	0	21	0	0	61	590	672
	E	1398	180	336	286	0	2	2202
	F	298	105	220	500	41	0	1164
	G							
	TOTAL	2345	639	613	797	1802	1513	7709

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	2	0	0	69	20	91
	B	15	0	0	0	1	3	19
	C	1	0	0	0	20	22	43
	D	0	0	0	0	0	13	13
	E	24	1	2	1	0	0	28
	F	16	4	9	6	3	0	38
	G							
	TOTAL	56	7	11	7	93	58	232

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	0	167	0	167
	B	5	0	0	0	0	1	6
	C	0	0	0	0	0	0	0
	D	0	0	0	0	0	40	40
	E	171	0	1	9	0	0	181
	F	0	0	7	93	0	0	100
	G							
	TOTAL	176	0	8	102	167	41	494

Junction Turning Flows

Junction: **A45 Brackmills Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	75028	3084	2084	7084	A45/ Nene Valley Way
B	2345	4084	3084	2345	Caswell Road
C	9163	6084	4084	5084	A45/ Nene Valley Way
D	1084	2084	6084	1084	Eagle Drive
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	895	94	9			998
	B	510	0	457	2			969
	C	559	1216	0	17			1792
	D	45	13	14	0			72
	E							
	F							
	G							
	TOTAL	1114	2124	565	28			3831

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	725	87	9			821
	B	445	0	309	1			755
	C	498	1146	0	12			1656
	D	30	8	12	0			50
	E							
	F							
	G							
	TOTAL	973	1879	408	22			3282

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	6	4	0			10
	B	17	0	28	1			46
	C	19	13	0	5			37
	D	15	5	2	0			22
	E							
	F							
	G							
	TOTAL	51	24	34	6			115

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	164	3	0			167
	B	48	0	120	0			168
	C	42	57	0	0			99
	D	0	0	0	0			0
	E							
	F							
	G							
	TOTAL	90	221	123	0			434

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MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	375	372	0			747
	B	504	0	440	1			945
	C	1382	624	0	6			2012
	D	328	103	161	0			592
	E							
	F							
	G							
	TOTAL	2214	1102	973	7			4296

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	368	361	0			729
	B	502	0	403	1			906
	C	1176	567	0	3			1746
	D	311	83	151	0			545
	E							
	F							
	G							
	TOTAL	1989	1018	915	4			3926

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	7	8	0			15
	B	2	0	16	0			18
	C	50	13	0	3			66
	D	8	8	10	0			26
	E							
	F							
	G							
	TOTAL	60	28	34	3			125

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	3	0			3
	B	0	0	21	0			21
	C	156	44	0	0			200
	D	9	12	0	0			21
	E							
	F							
	G							
	TOTAL	165	56	24	0			245

Junction Turning Flows

Junction: **A45 Barnes Meadow Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9166	9176	9175	9165	A45/NeneValley Way
B	24740	2053	2053	24740	A428/Bedford Road
C	9164	9173	9177	75027	A45/NeneValley Way
D	2051	9174	9174	2051	A428/Bedford Road
E	1054	9175	9175	1054	A5095/ Rushmere Road
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM_2_2021_AM_I1.DAT

MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	535	240	941	9			1725
	B	61	0	151	340	123			675
	C	0	149	0	1006	200			1355
	D	771	648	185	0	102			1706
	E	100	597	503	8	0			1208
	F								
	G								
	TOTAL	932	1929	1079	2295	434			6669

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	431	202	847	9			1489
	B	55	0	123	291	119			588
	C	0	145	0	955	196			1296
	D	696	569	181	0	89			1535
	E	97	594	469	8	0			1168
	F								
	G								
	TOTAL	848	1739	975	2101	413			6076

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	4	7	31	0			42
	B	3	0	15	10	4			32
	C	0	3	0	49	4			56
	D	66	6	4	0	13			89
	E	3	2	31	0	0			36
	F								
	G								
	TOTAL	72	15	57	90	21			255

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	100	31	63	0			194
	B	3	0	13	39	0			55
	C	0	1	0	2	0			3
	D	9	73	0	0	0			82
	E	0	1	3	0	0			4
	F								
	G								
	TOTAL	12	175	47	104	0			338

PMNSTM_2_2021_PM_I1.DAT

MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	209	203	691	14			1117
	B	477	0	70	442	647			1636
	C	0	69	0	809	328			1206
	D	1725	460	508	9	30			2732
	E	307	307	301	11	0			926
	F								
	G								
	TOTAL	2509	1045	1082	1962	1019			7617

By Vehicle Type:

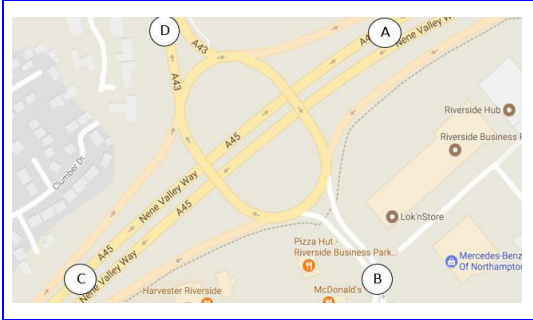
MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	205	189	632	14			1040
	B	469	0	69	435	640			1613
	C	0	69	0	778	316			1163
	D	1502	453	500	8	30			2493
	E	300	299	293	11	0			903
	F								
	G								
	TOTAL	2271	1026	1051	1864	1000			7212

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	2	4	8	0			14
	B	5	0	1	5	6			17
	C	0	0	0	31	12			43
	D	90	4	8	1	0			103
	E	7	7	5	0	0			19
	F								
	G								
	TOTAL	102	13	18	45	18			196

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	2	10	51	0			63
	B	3	0	0	2	1			6
	C	0	0	0	0	0			0
	D	133	3	0	0	0			136
	E	0	1	3	0	0			4
	F								
	G								
	TOTAL	136	6	13	53	1			209

Junction Turning Flows

Junction: **A45 Lumbertubs Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9213	9214	9211	9212	A45/ Nene Valley Way
B	4437	9215	9214	4436	Ferris Row
C	2075	9217	9215	9216	A45/ Nene Valley Way
D	9210	9211	9217	4068	A43/ Lumbertubs Way
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM_2_2021_AM_I1.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	84	0	319			403
	B	48	0	1037	220			1305
	C	0	105	5	1511			1621
	D	383	1085	1385	124			2977
	E							
	F							
	G							
	TOTAL	431	1274	2427	2174			6306

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	75	0	308			383
	B	46	0	946	189			1181
	C	0	95	5	1017			1117
	D	371	918	1133	121			2543
	E							
	F							
	G							
	TOTAL	417	1088	2084	1635			5224

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	9	0	11			20
	B	2	0	40	3			45
	C	0	10	0	75			85
	D	11	43	61	3			118
	E							
	F							
	G							
	TOTAL	13	62	101	92			268

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0	0			0
	B	0	0	51	28			79
	C	0	0	0	419			419
	D	1	124	191	0			316
	E							
	F							
	G							
	TOTAL	1	124	242	447			814

PMNSTM_2_2021_PM_I1.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	98	0	503			601
	B	102	0	944	429			1475
	C	74	128	0	1828			2030
	D	168	791	1128	31			2118
	E							
	F							
	G							
	TOTAL	344	1017	2072	2791			6224

By Vehicle Type:

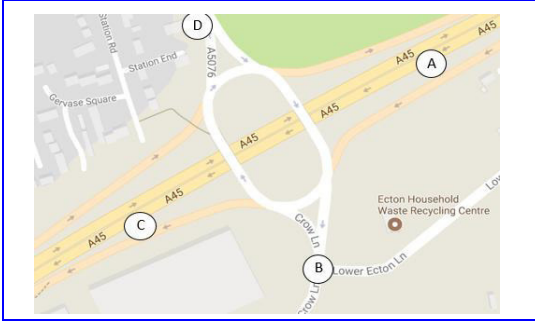
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	75	0	496			571
	B	97	0	934	426			1457
	C	53	14	0	1567			1634
	D	163	684	1023	31			1901
	E							
	F							
	G							
	TOTAL	313	773	1957	2520			5563

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	22	0	7			29
	B	5	0	9	3			17
	C	5	2	0	45			52
	D	5	19	24	0			48
	E							
	F							
	G							
	TOTAL	15	43	33	55			146

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	0	0			1
	B	0	0	1	0			1
	C	16	112	0	216			344
	D	0	88	81	0			169
	E							
	F							
	G							
	TOTAL	16	201	82	216			515

Junction Turning Flows

Junction: **A45 Great Billing Interchange**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	9259	9258	9253	9254	A45/ Nene Valley Way
B	1076	9257	9257	1076	Crow Lane
C	9250	9251	9256	9255	A45/ Nene Valley Way
D	24694	9252	9252	24694	Great Billing Way
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2021 AM I1.DAT

MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	395	42	369				806
	B	262	0	651	378				1291
	C	0	156	6	304				466
	D	324	404	725	0				1453
	E								
	F								
	G								
	TOTAL	586	955	1424	1051				4016

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	228	0	360				588
	B	216	0	371	259				846
	C	0	147	6	298				451
	D	319	329	666	0				1314
	E								
	F								
	G								
	TOTAL	535	704	1043	917				3199

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	2	0	6				8
	B	39	0	46	39				124
	C	0	9	0	4				13
	D	5	18	22	0				45
	E								
	F								
	G								
	TOTAL	44	29	68	49				190

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	165	42	3				210
	B	7	0	234	80				321
	C	0	0	0	2				2
	D	0	57	37	0				94
	E								
	F								
	G								
	TOTAL	7	222	313	85				627

PMNSTM 2 2021 PM I1.DAT

MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	184	0	101				285
	B	349	0	218	534				1101
	C	44	134	8	788				974
	D	340	257	255	0				852
	E								
	F								
	G								
	TOTAL	733	575	481	1423				3212

By Vehicle Type:

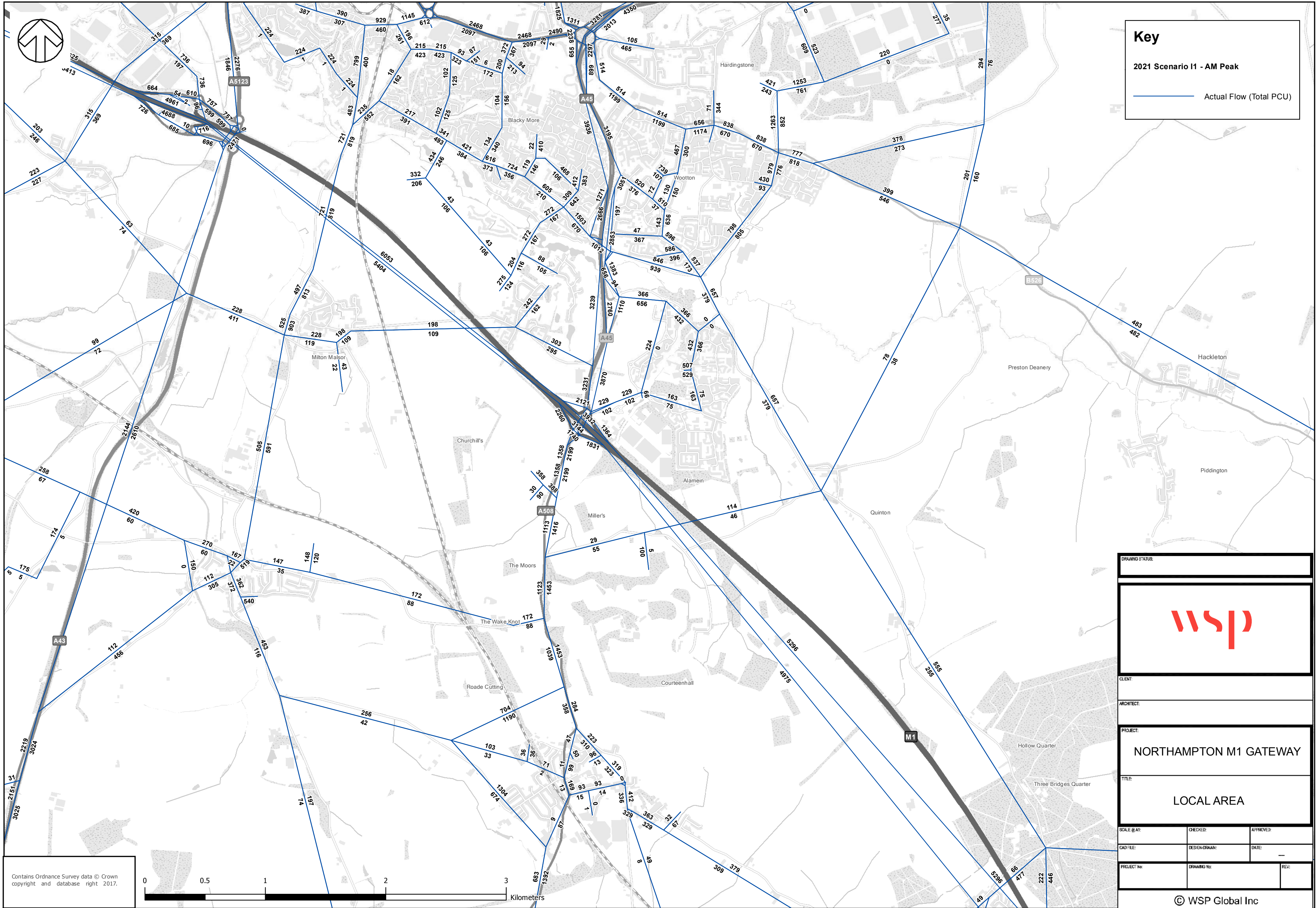
MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	182	0	100				282
	B	316	0	160	480				956
	C	38	23	8	548				617
	D	327	238	238	0				803
	E								
	F								
	G								
	TOTAL	681	443	406	1128				2658

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	2	0	1				3
	B	32	0	34	50				116
	C	4	17	0	28				49
	D	13	19	4	0				36
	E								
	F								
	G								
	TOTAL	49	38	38	79				204

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	0	0				0
	B	1	0	24	4				29
	C	2	94	0	212				308
	D	0	0	13	0				13
	E								
	F								
	G								
	TOTAL	3	94	37	216				350

DfT 02/2013 CIRCULAR COMPLIANT
DEVELOPMENT CASE WITH HIGHWAY MITIGATION
(SCENARIO I1)

[NSTM2 Actual Flow Plots \(link flows\)](#)



Key

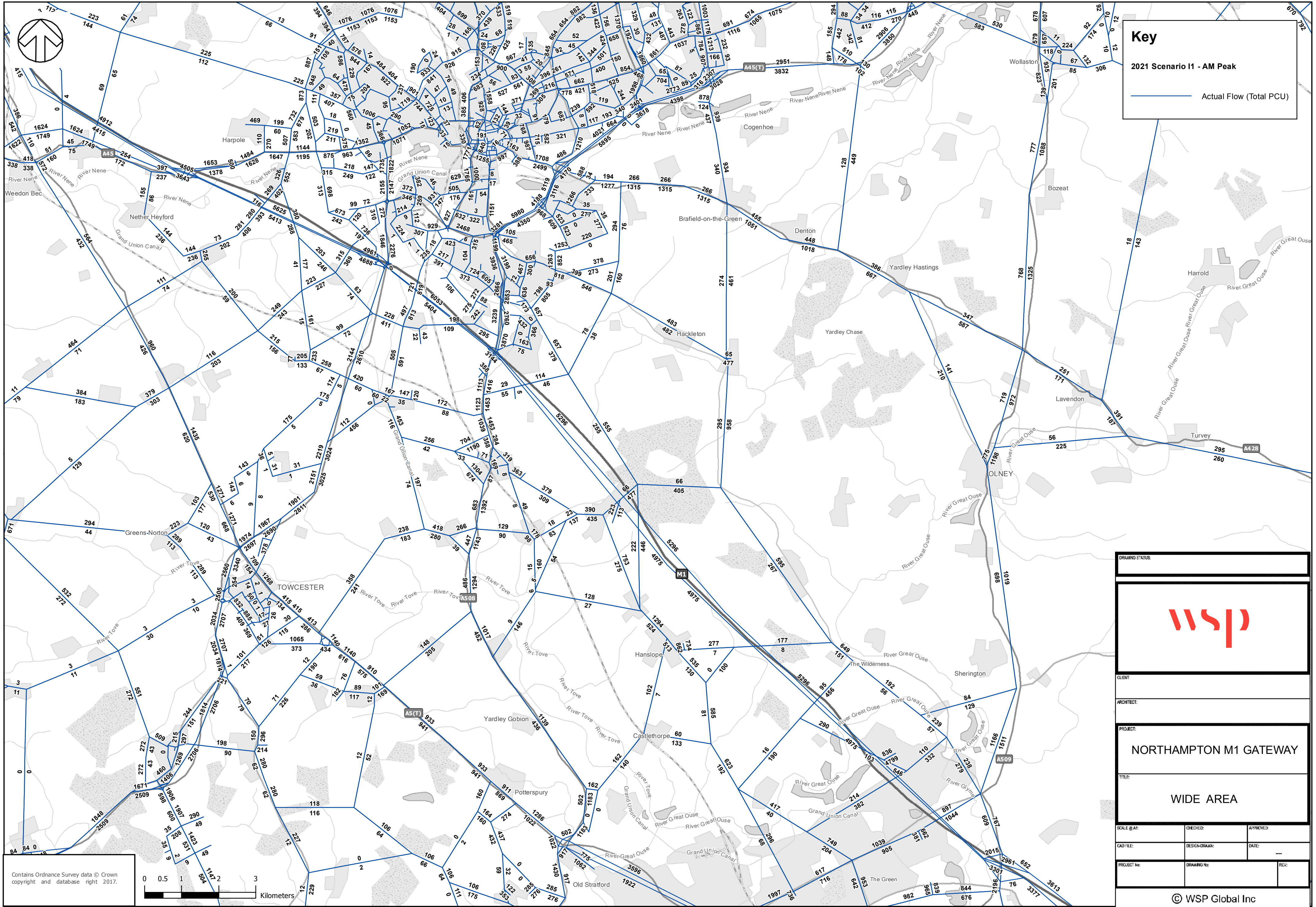
2021 Scenario I1 - AM Peak

— Actual Flow (Total PCU)

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CLIENT:		
ARCHITECT:		
PROJECT:		
NORTHAMPTON M1 GATEWAY		
TITLE:		
LOCAL AREA		
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CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:
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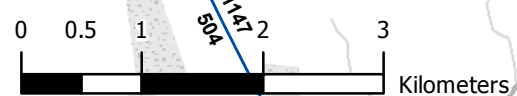


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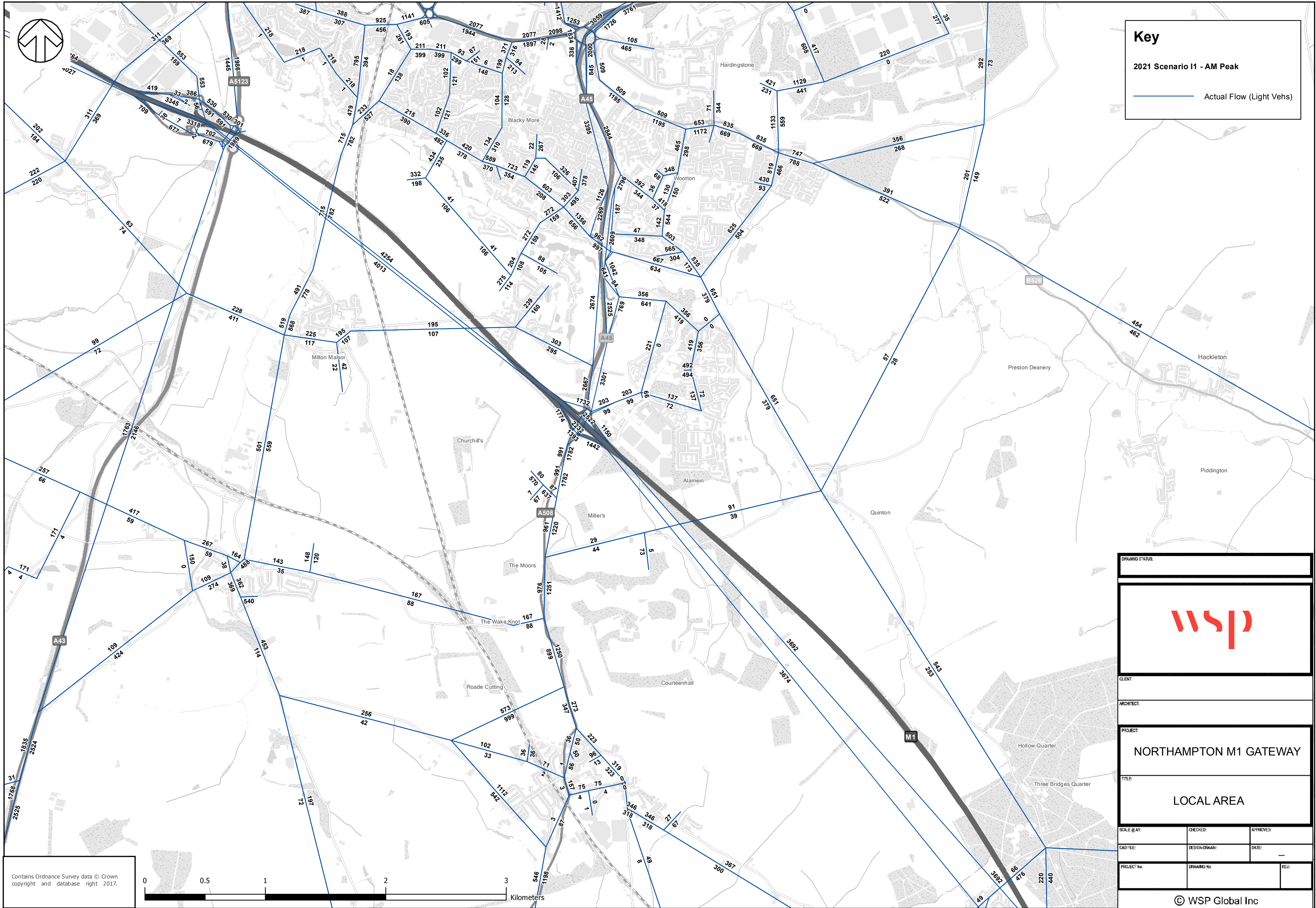
2021 Scenario I1 - AM Peak

— Actual Flow (Total PCU)

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CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: WIDE AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:
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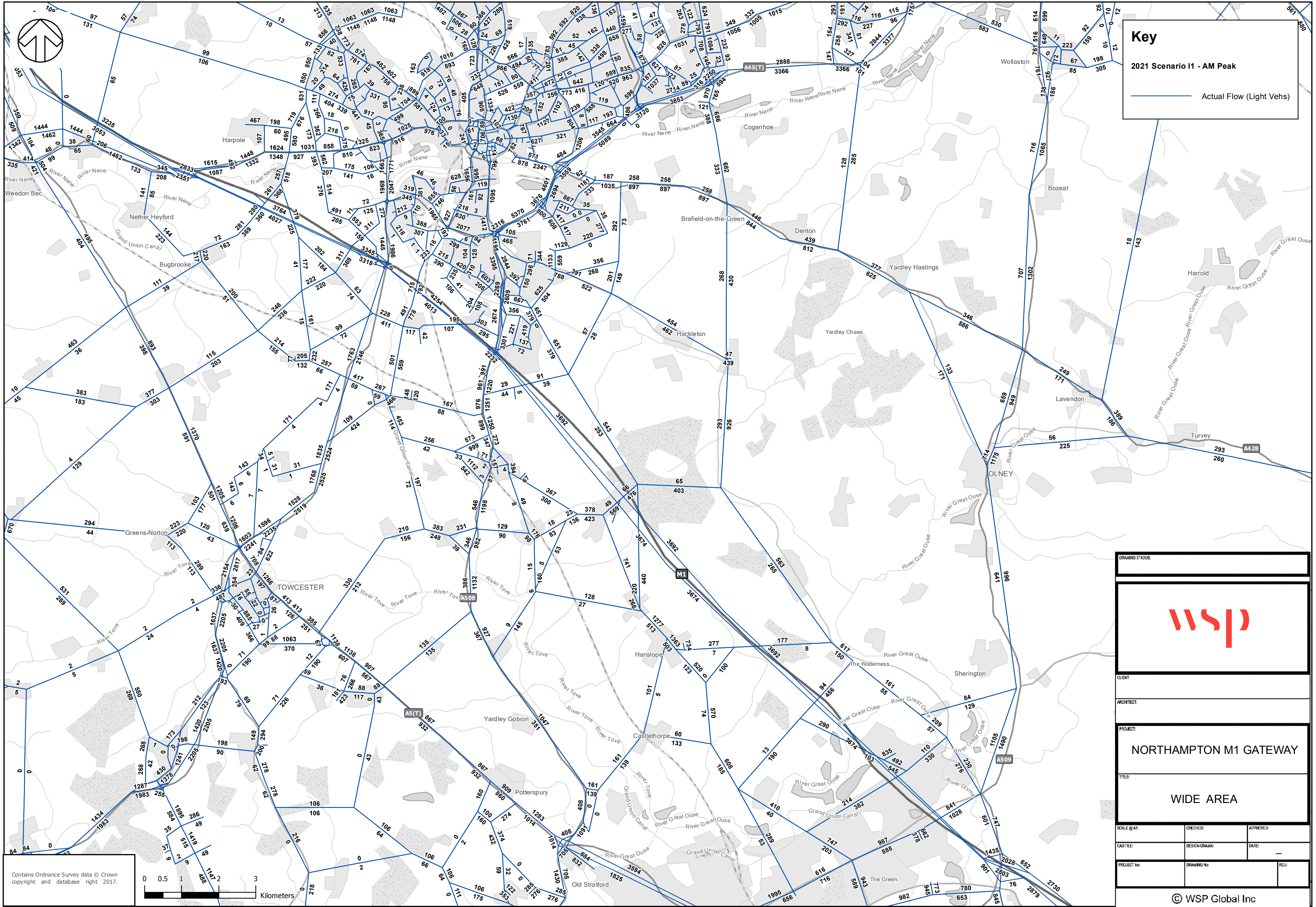
2021 Scenario I1 - AM Peak

— Actual Flow (Light Vehs)

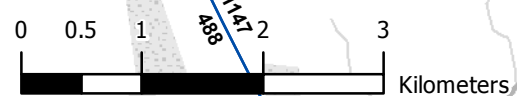
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CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
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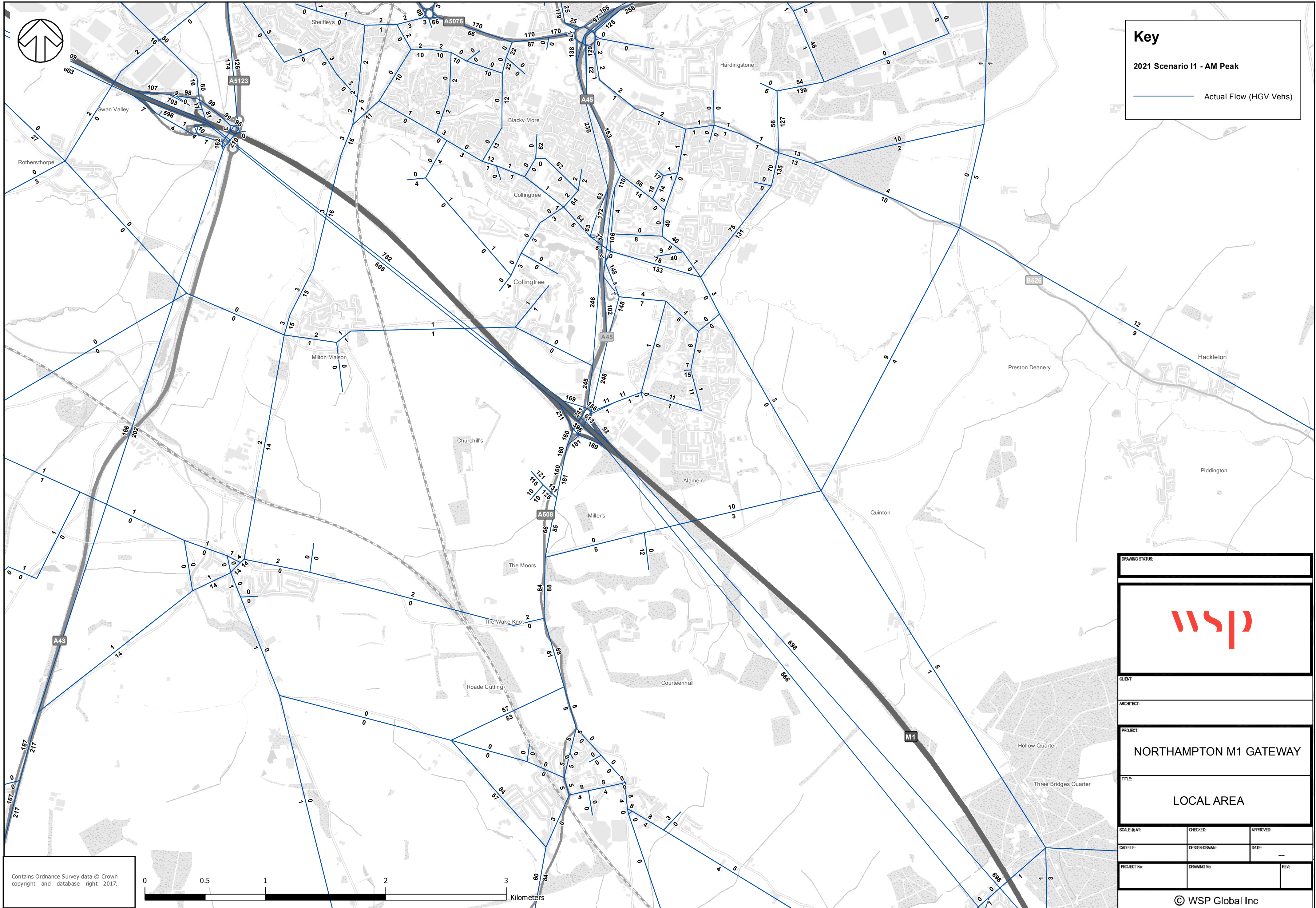


Key

2021 Scenario I1 - AM Peak

— Actual Flow (Light Vehs)

DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: WIDE AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
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Key

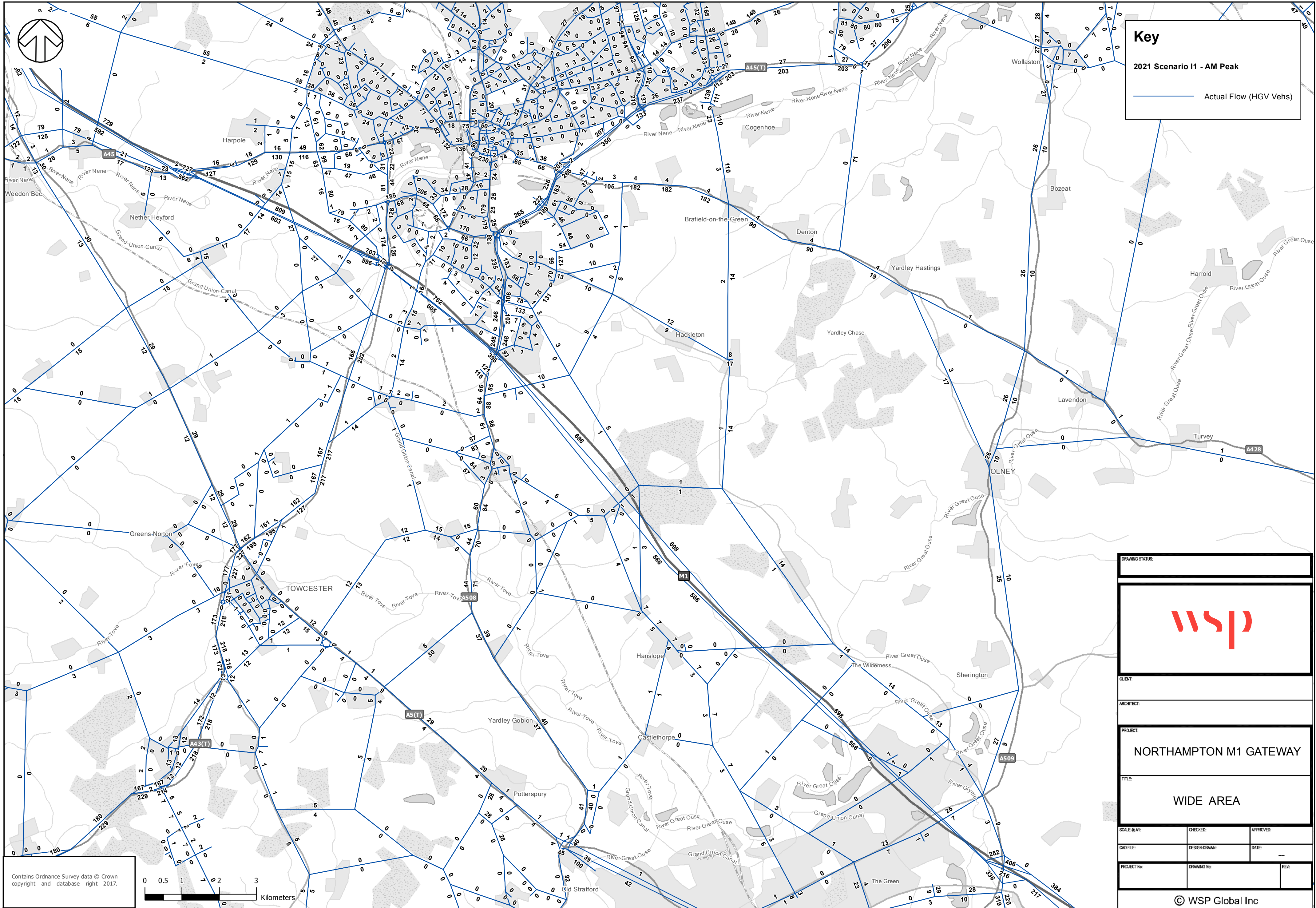
2021 Scenario I1 - AM Peak

— Actual Flow (HGV Vehs)

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CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:
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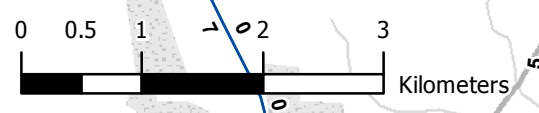


Key

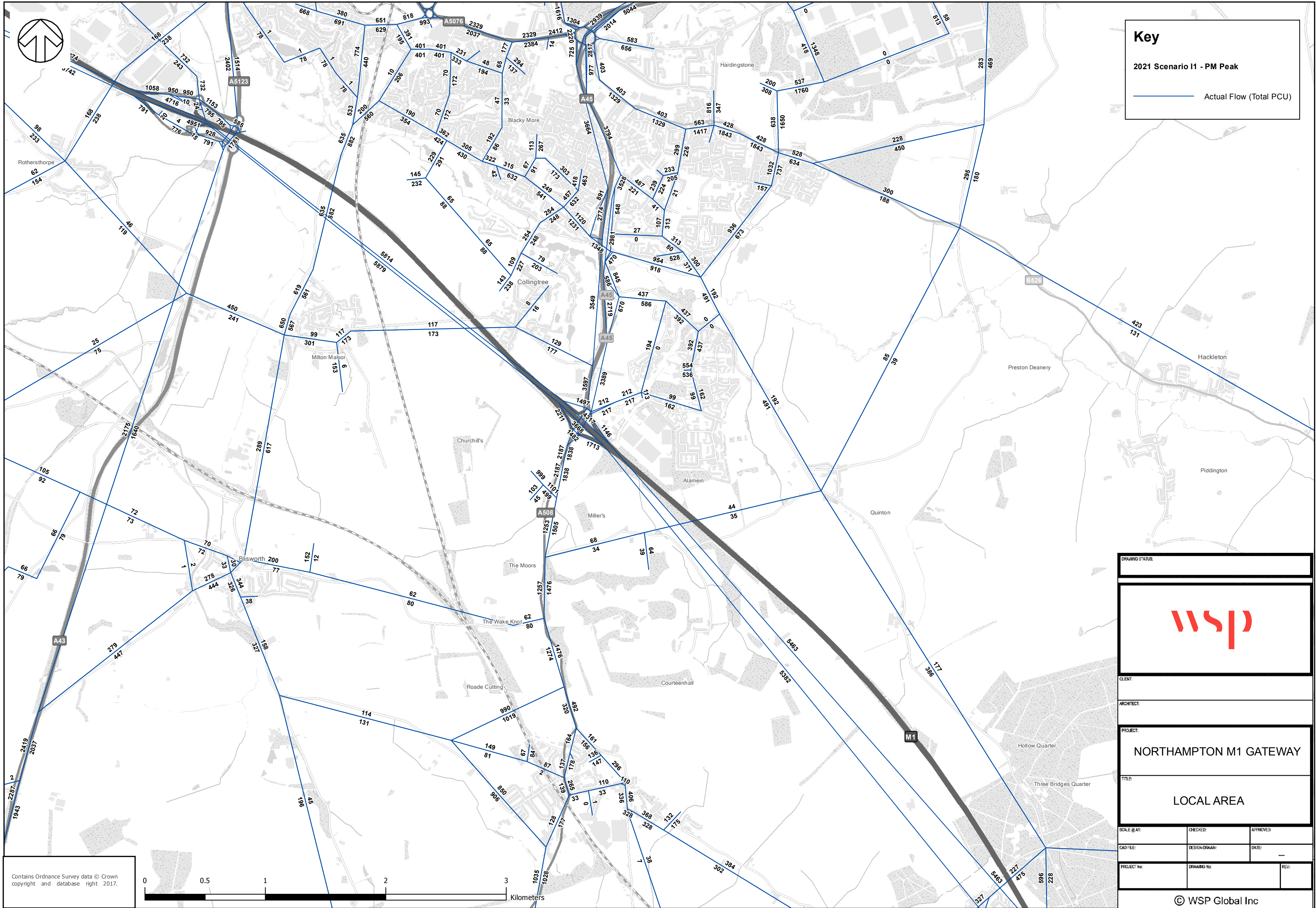
2021 Scenario I1 - AM Peak

— Actual Flow (HGV Vehs)

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: WIDE AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:
© WSP Global Inc		




Key

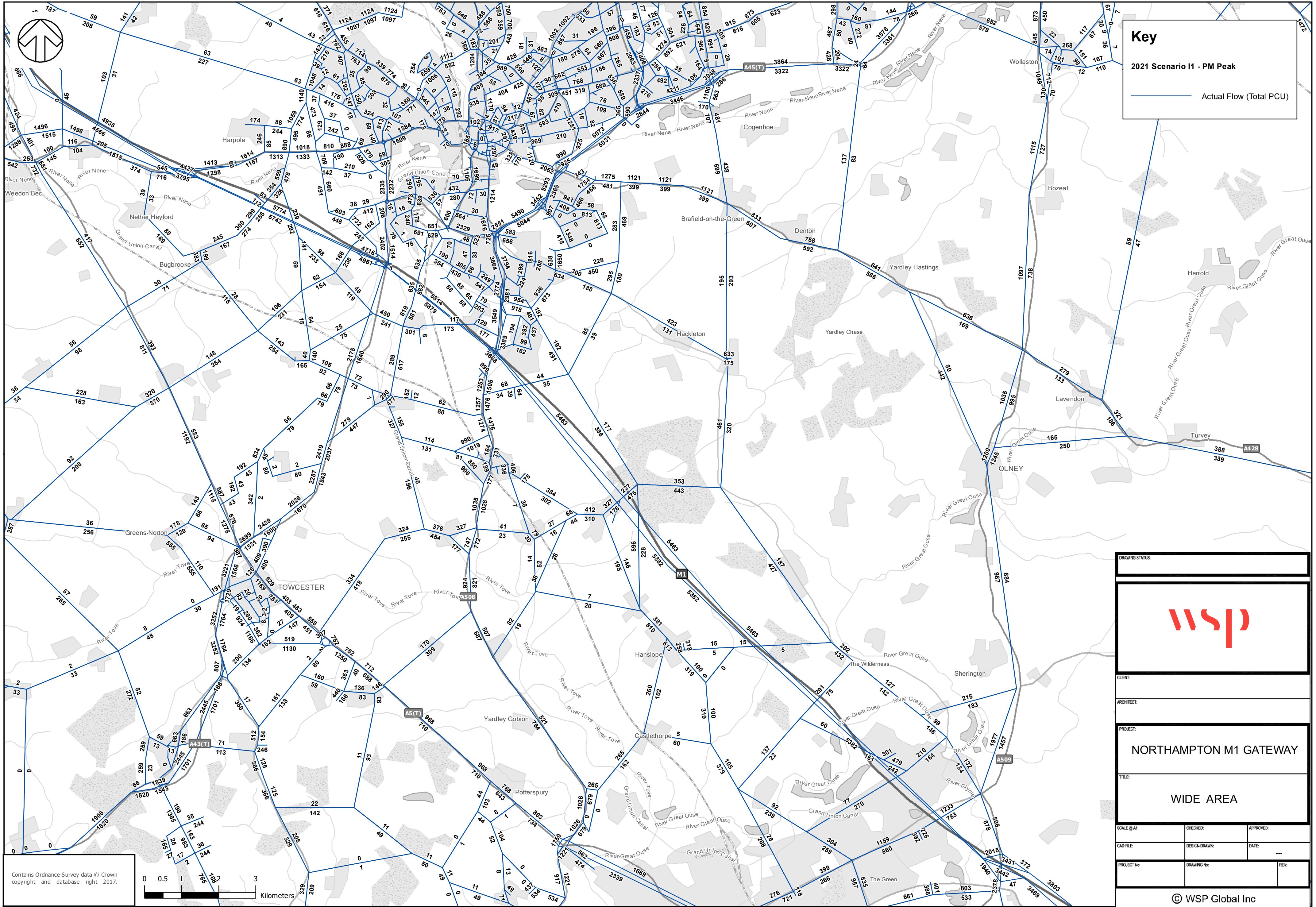
2021 Scenario I1 - PM Peak

— Actual Flow (Total PCU)

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DRAWING STATUS:		
		
CLIENT:		
ARCHITECT:		
PROJECT:		
NORTHAMPTON M1 GATEWAY		
TITLE:		
LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:
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Key

2021 Scenario I1 - PM Peak

— Actual Flow (Total PCU)

DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

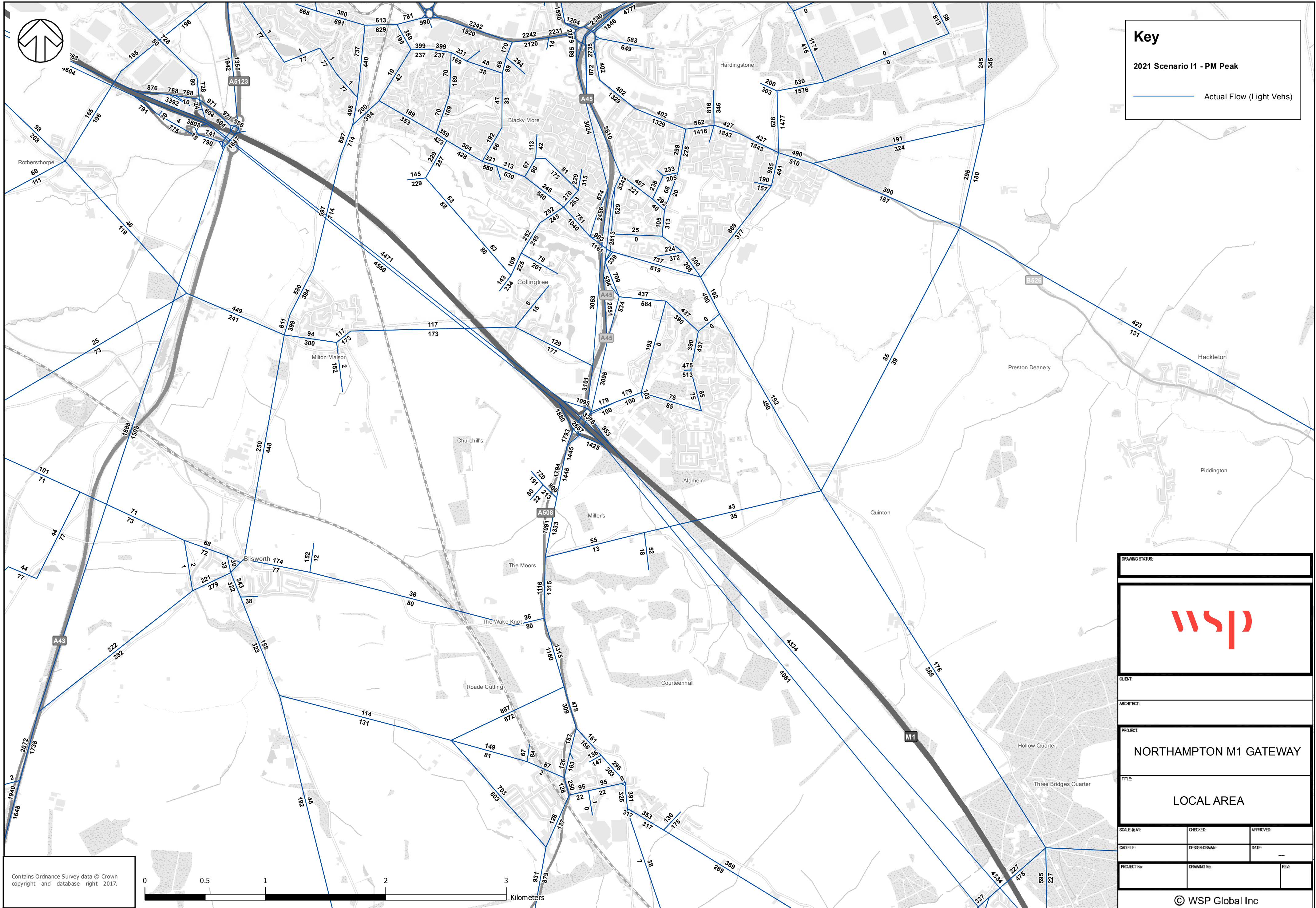
NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN/DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:

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Key

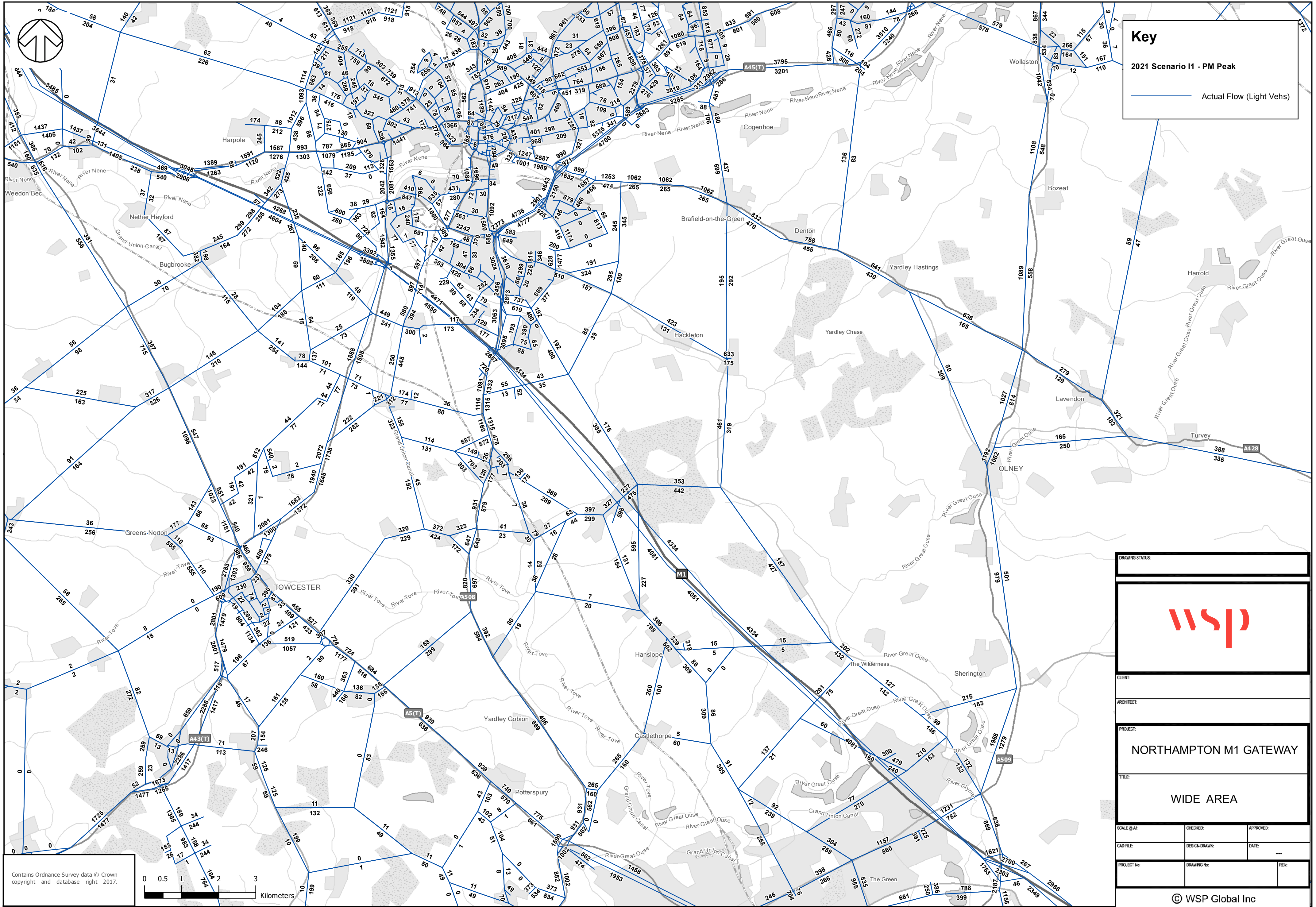
2021 Scenario I1 - PM Peak

— Actual Flow (Light Vehs)

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DRAWING STATUS:		
		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:
© WSP Global Inc		

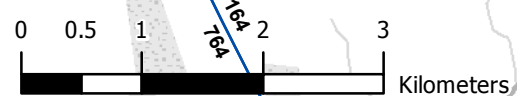


Key


2021 Scenario I1 - PM Peak

— Actual Flow (Light Vehs)

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

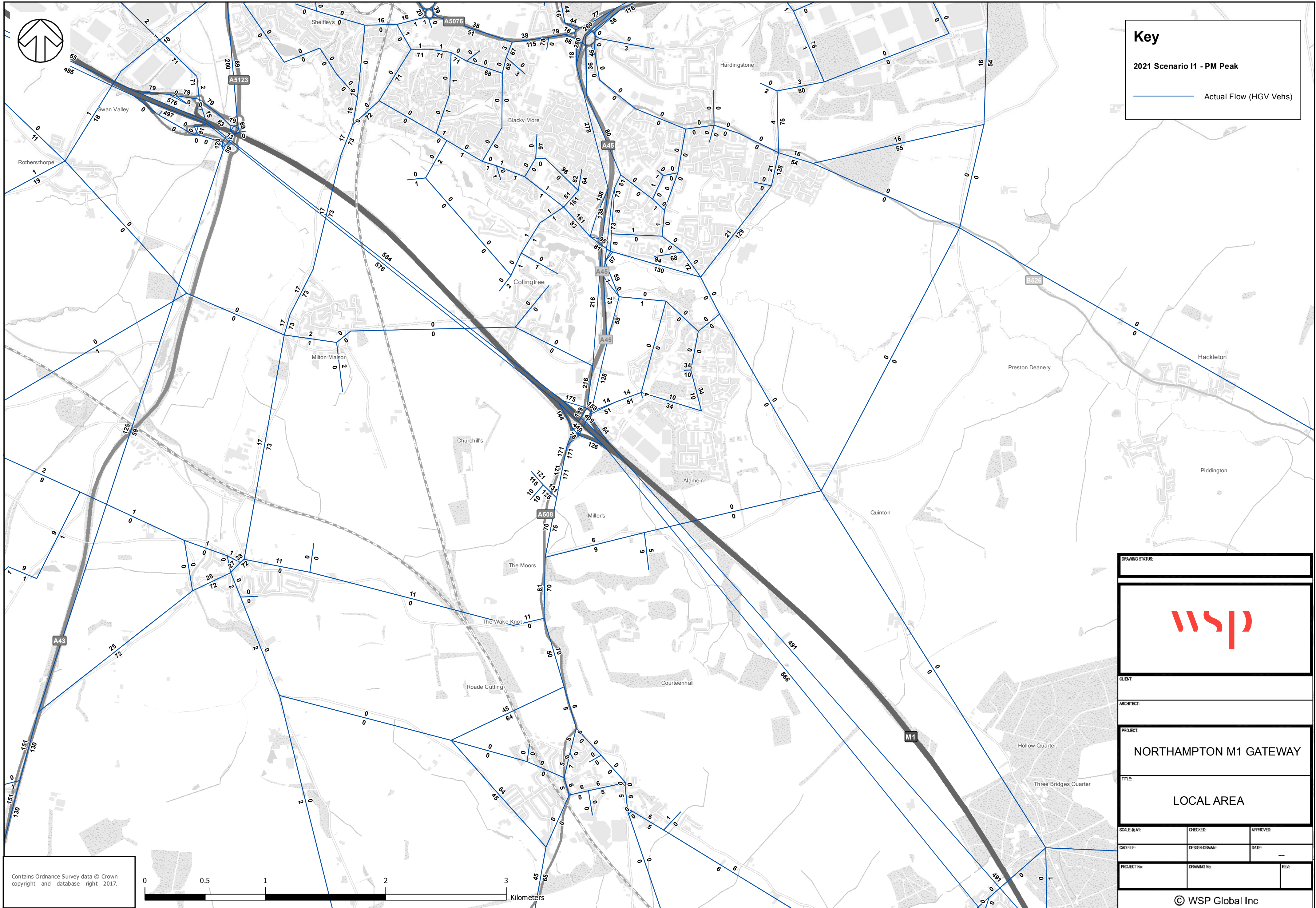
NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:

© WSP Global Inc



Key

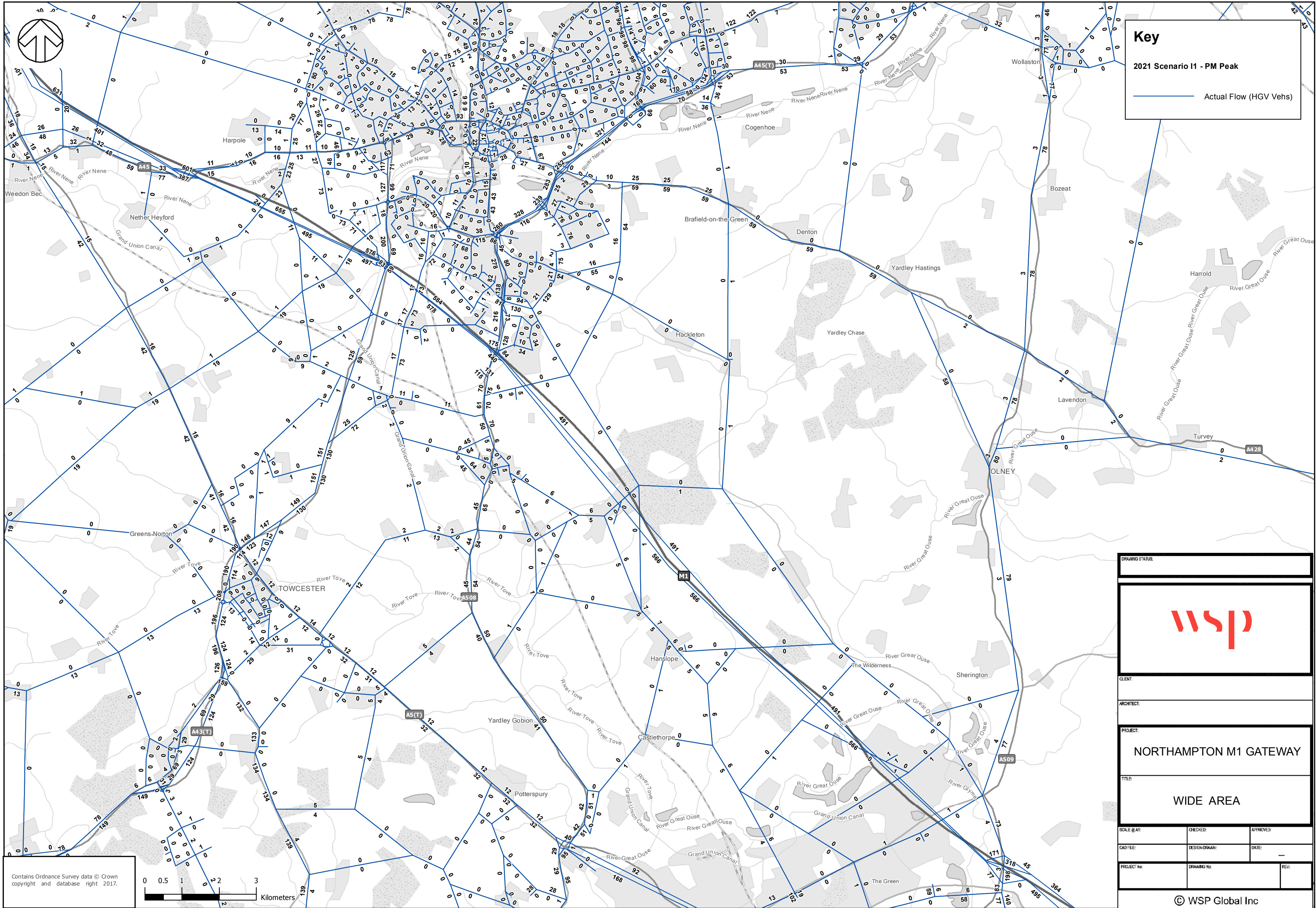
2021 Scenario I1 - PM Peak

— Actual Flow (HGV Vehs)

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:
© WSP Global Inc		

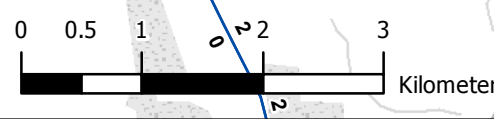


Key

2021 Scenario I1 - PM Peak

— Actual Flow (HGV Vehs)

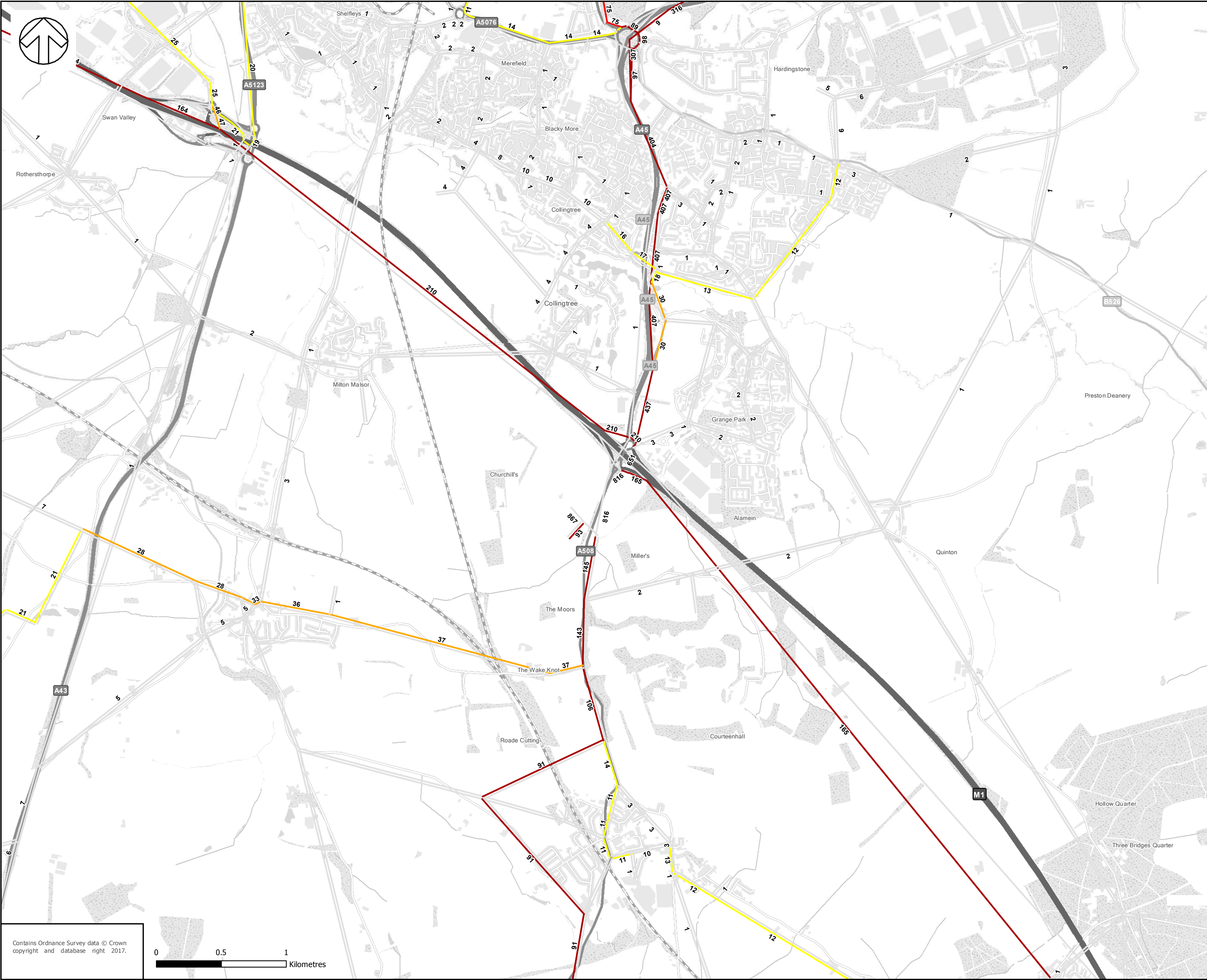
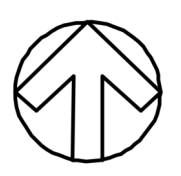
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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: WIDE AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWN:	DATE:
PROJECT No:	DRAWING No:	REV:
© WSP Global Inc		

DfT 02/2013 CIRCULAR COMPLIANT
DEVELOPMENT CASE WITH HIGHWAY MITIGATION
(SCENARIO I1)

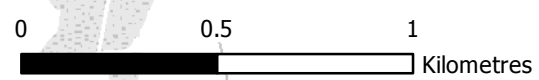
NSTM2 Select Link Analysis



Key
2021 Scenario I1
AM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:



CLIENT:

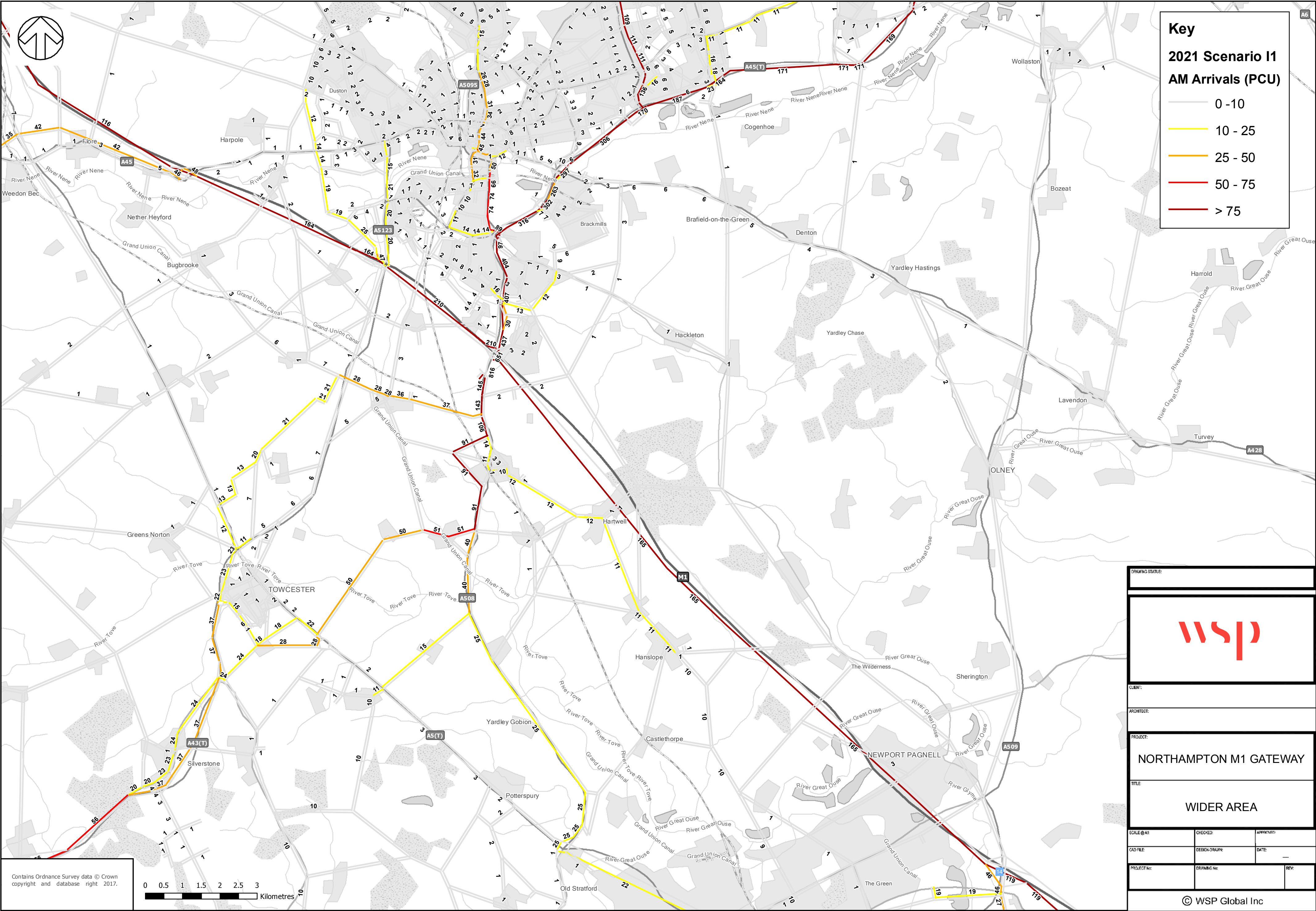
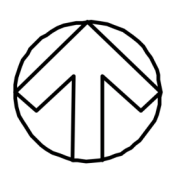
ARCHITECT:

PROJECT:
NORTHAMPTON M1 GATEWAY

TITLE:
LOCAL AREA

SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWN:	DATE:
PROJECT No.:	DRAWING No.:	REV:

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Key

2021 Scenario I1


AM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

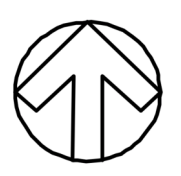
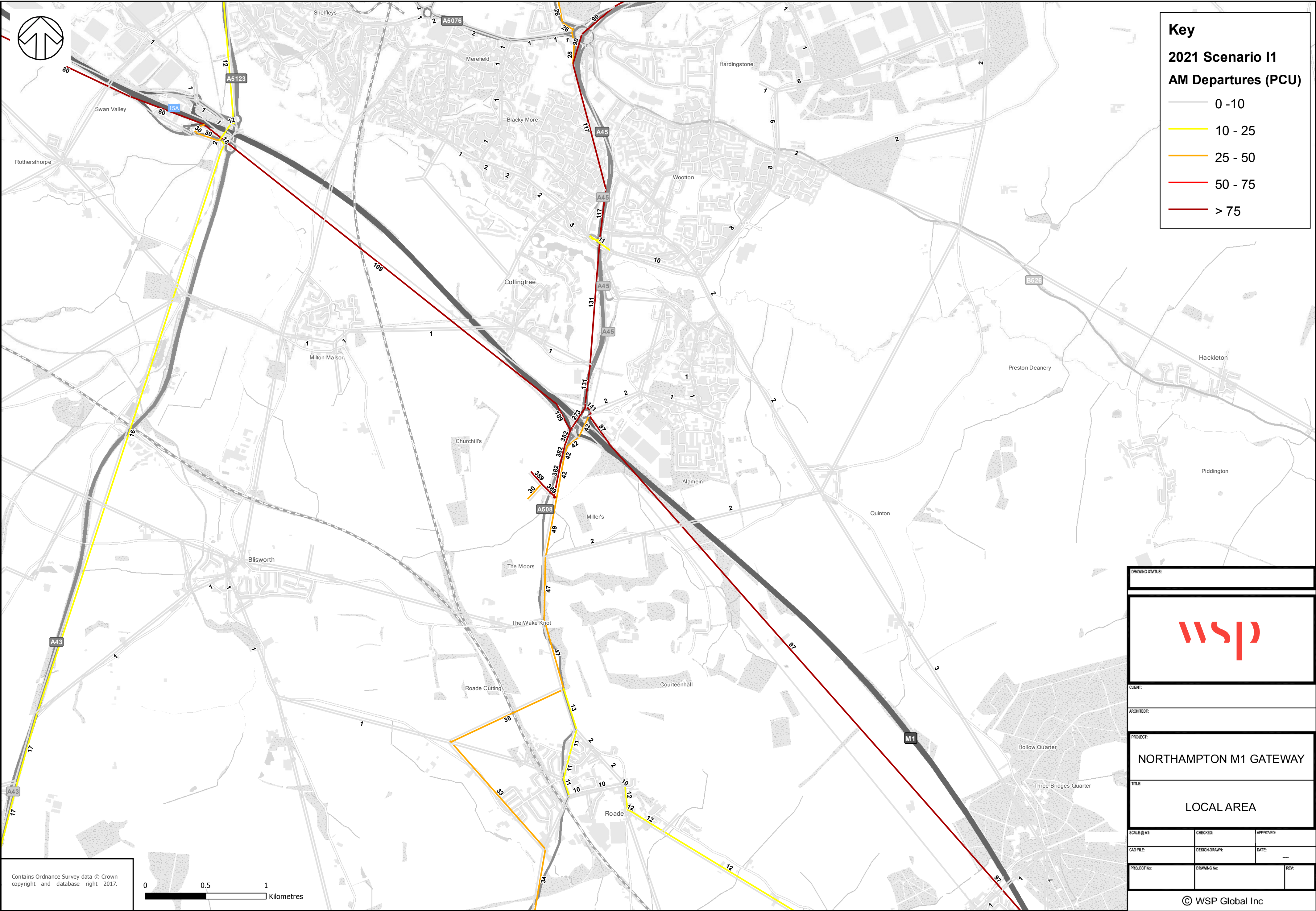
NORTHAMPTON M1 GATEWAY

TITLE:

WIDER AREA

SCALE @ A1	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
PROJECT No:	DRAWING No:	REV:

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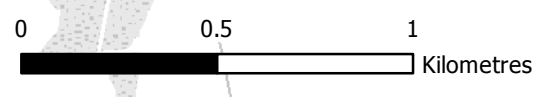
Key

2021 Scenario I1

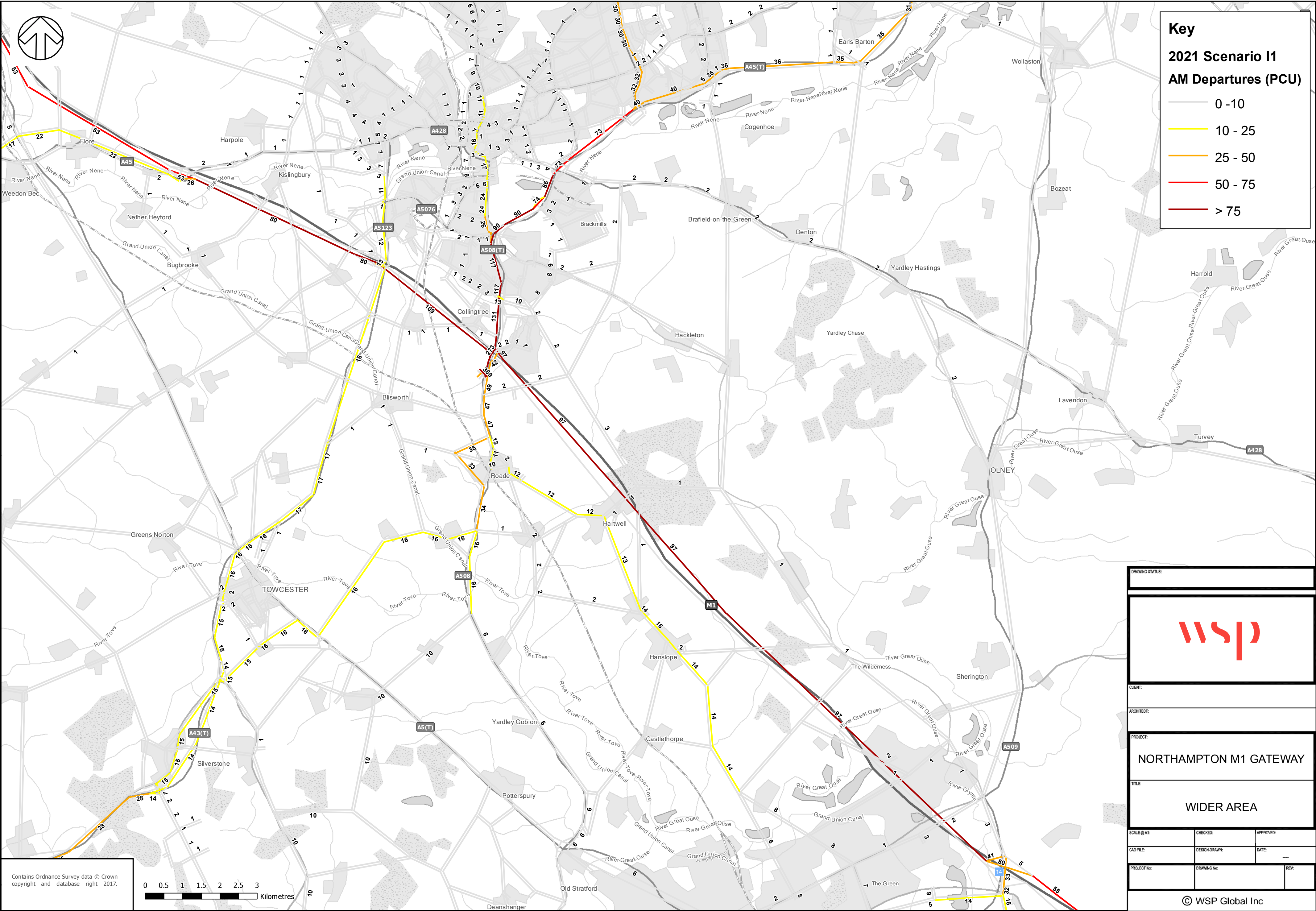
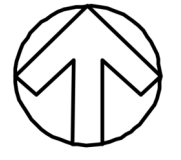
AM Departures (PCU)

Grey line	0 - 10
Yellow line	10 - 25
Orange line	25 - 50
Red line	50 - 75
Dark red line	> 75

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
PROJECT No.:	DRAWING No.:	REV:
© WSP Global Inc		



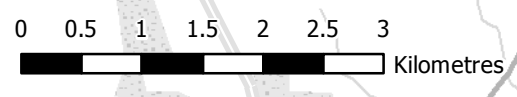
Key

2021 Scenario I1


AM Departures (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

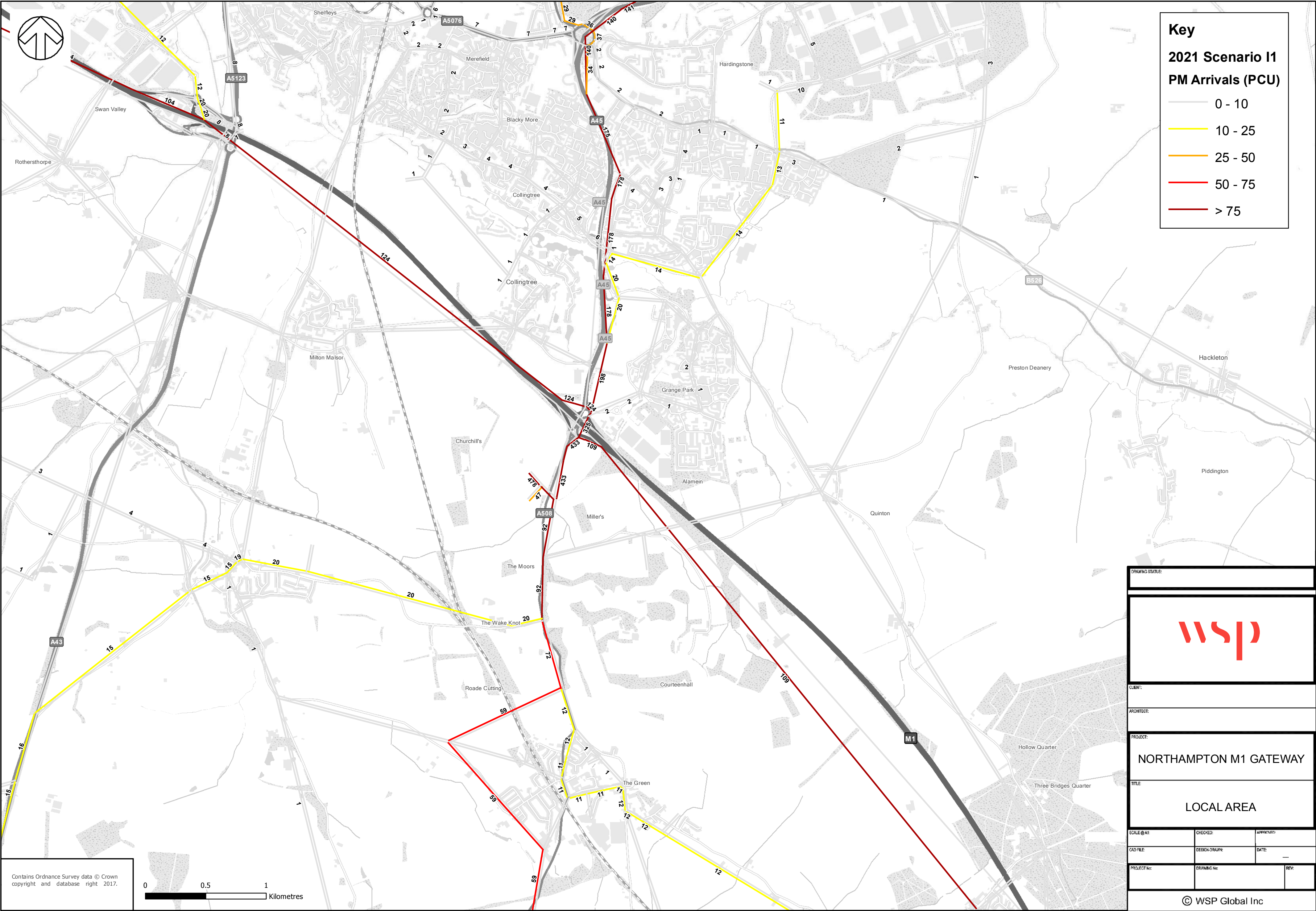
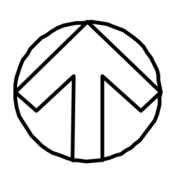
NORTHAMPTON M1 GATEWAY

TITLE:

WIDER AREA

SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
PROJECT No.:	DRAWING No.:	REV:

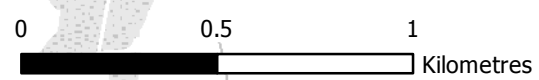
© WSP Global Inc



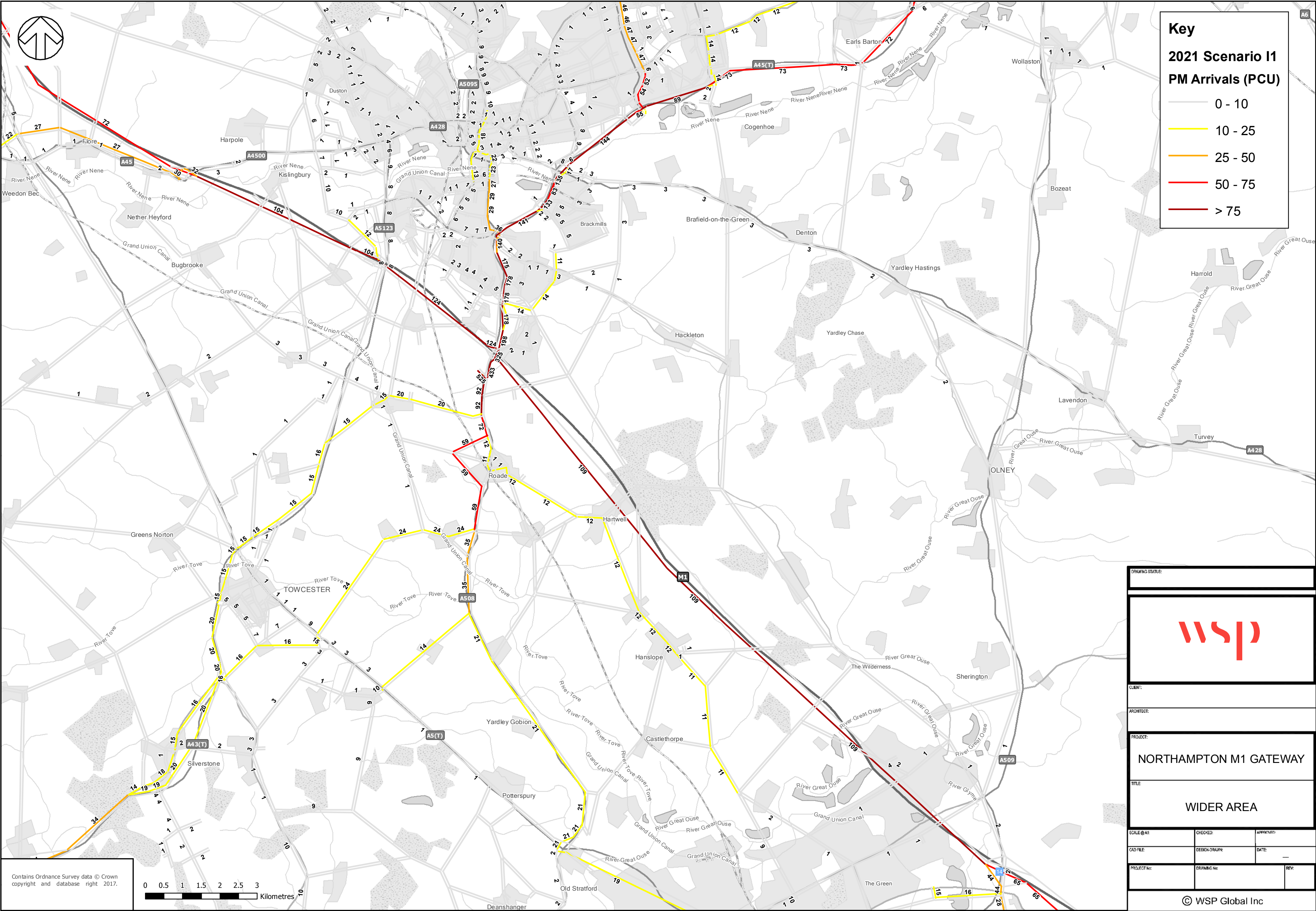
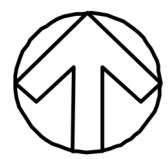
Key
2021 Scenario I1
PM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
PROJECT No.:	DRAWING No.:	REV.:
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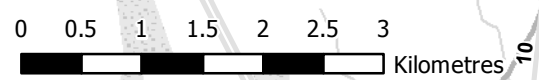
Key

2021 Scenario I1


PM Arrivals (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

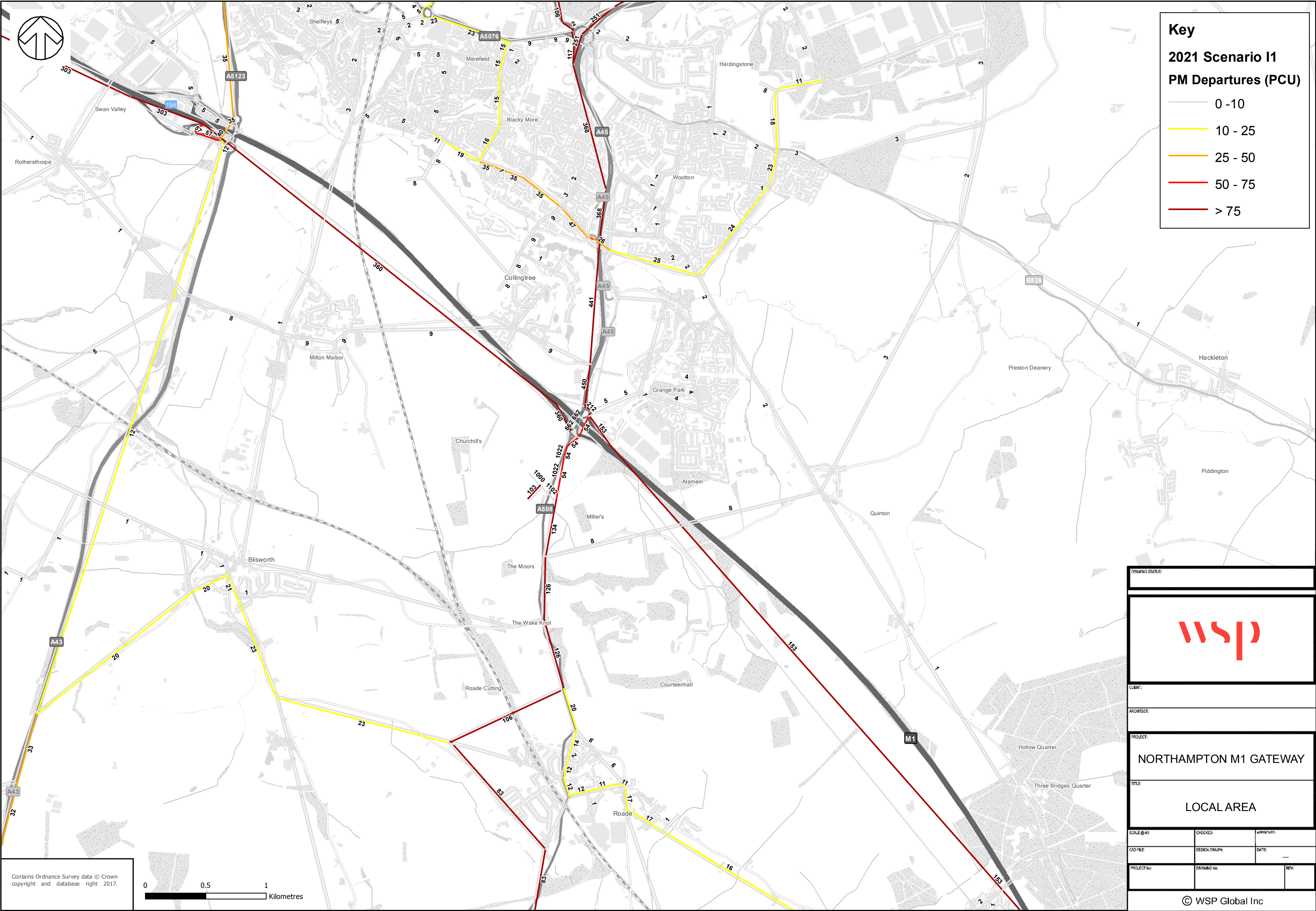
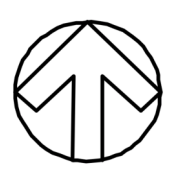
NORTHAMPTON M1 GATEWAY

TITLE:

WIDER AREA

SCALE @ A1	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
PROJECT No:	DRAWING No:	REV:

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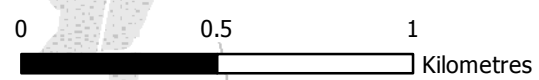
Key

2021 Scenario I1


PM Departures (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

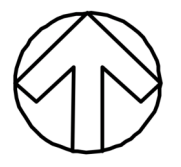
NORTHAMPTON M1 GATEWAY

TITLE:

LOCAL AREA

SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No.:	DRAWING No.:	REV:

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Key

2021 Scenario I1


PM Departures (PCU)

- 0 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- > 75

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

NORTHAMPTON M1 GATEWAY

TITLE:

WIDER AREA

SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
PROJECT No:	DRAWING No:	REV:

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