

Appendix 45

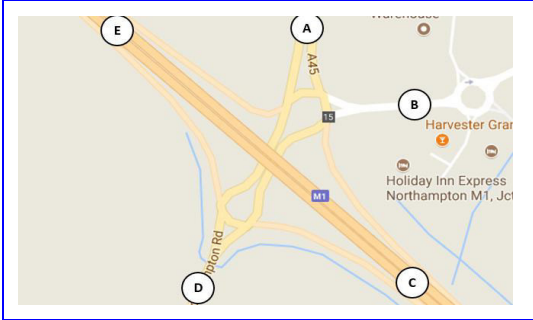
2021 Opening Year NSTM2 study area traffic flows

2021 REFERENCE CASE (SCENARIO B1)

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

AMNSTM_2_2021_B1_AM_v12.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	47	34	1028	669	1416		3194
	B	47	0	17	17	35		116
	C	1351	39	0	70	0		1460
	D	530	14	73	0	299		916
	E	1084	81	0	485	1		1651
	F							
	G							
TOTAL	3059	168	1118	1241	1751		7337	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	45	33	820	594	997		2489
	B	47	0	15	17	35		114
	C	1036	9	0	62	0		1107
	D	497	14	71	0	180		762
	E	858	81	0	392	0		1331
	F							
	G							
TOTAL	2483	137	906	1065	1212		5803	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	2	1	95	50	45		193
	B	0	0	1	0	0		1
	C	66	0	0	5	0		71
	D	29	0	0	0	5		34
	E	53	0	0	9	0		62
	F							
	G							
TOTAL	150	1	96	64	50		361	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	113	25	374		512
	B	0	0	1	0	0		1
	C	249	30	0	3	0		282
	D	4	0	2	0	114		120
	E	173	0	0	84	1		258
	F							
	G							
TOTAL	426	30	116	112	489		1173	

PMNSTM_2_2021_B1_PM_v12.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	211	85	951	729	1260		3236
	B	21	0	122	12	86		241
	C	1203	20	0	61	0		1284
	D	584	9	28	0	225		846
	E	1139	77	0	308	0		1524
	F							
	G							
TOTAL	3158	191	1101	1110	1571		7131	

By Vehicle Type:

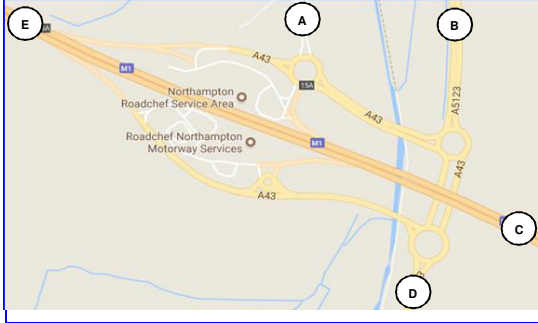
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	208	82	844	652	1107		2893
	B	20	0	79	12	12		123
	C	940	13	0	59	0		1012
	D	554	9	22	0	135		720
	E	894	33	0	182	0		1109
	F							
	G							
TOTAL	2616	137	945	905	1254		5857	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	3	2	38	11	23		77
	B	1	0	0	0	1		2
	C	49	1	0	2	0		52
	D	24	0	5	0	2		31
	E	68	2	0	16	0		86
	F							
	G							
TOTAL	145	5	43	29	26		248	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	69	66	130		266
	B	0	0	43	0	73		116
	C	214	6	0	0	0		220
	D	6	0	1	0	88		95
	E	177	42	0	110	0		329
	F							
	G							
TOTAL	397	49	113	176	291		1026	

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	762	16	0			777
	B	0	0	221	1117	419			1757
	C	25	406	10	342	0			782
	D	153	1156	172	0	365			1846
	E	11	378	0	533	0			922
	F								
	G								
	TOTAL	189	1940	1164	2007	785			6085

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	604	16	0			620
	B	0	0	212	775	286			1273
	C	23	299	9	317	0			649
	D	137	804	161	0	351			1453
	E	11	359	0	264	0			633
	F								
	G								
	TOTAL	170	1462	986	1372	637			4628

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	47	0	0			47
	B	0	0	6	95	8			109
	C	2	29	0	24	0			55
	D	4	49	10	0	7			70
	E	0	6	0	36	0			43
	F								
	G								
	TOTAL	5	84	63	156	15			323

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	111	0	0			111
	B	0	0	3	247	125			375
	C	1	78	0	0	0			79
	D	13	303	0	0	7			323
	E	0	13	0	233	0			246
	F								
	G								
	TOTAL	14	394	114	480	132			1134

PMNSTM_2_2021_B1_PM_v12.DAT

MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	443	124	0			567
	B	0	0	285	1059	209			1553
	C	59	531	0	245	0			835
	D	59	1155	318	0	322			1854
	E	0	399	0	437	0			836
	F								
	G								
	TOTAL	119	2085	1045	1865	532			5646

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	410	122	0			532
	B	0	0	229	851	203			1284
	C	2	428	0	230	0			661
	D	56	814	309	0	299			1478
	E	0	216	0	419	0			636
	F								
	G								
	TOTAL	58	1458	948	1623	502			4590

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	30	2	0			33
	B	0	0	7	44	4			55
	C	0	15	0	3	0			18
	D	3	64	9	0	23			99
	E	0	14	0	15	0			29
	F								
	G								
	TOTAL	3	93	47	64	28			234

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	48	164	2			214
	C	57	88	0	12	0			157
	D	0	277	0	0	0			277
	E	0	169	0	2	0			171
	F								
	G								
	TOTAL	57	534	50	178	2			822

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

AMNSTM2_2031_B1_AM_v12.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0				0
	B	2578	0	320				2898
	C	371	0	0				371
	D							
	E							
	F							
	G							
	TOTAL	2949	0	320				3269

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0				0
	B	2054	0	286				2340
	C	342	0	0				342
	D							
	E							
	F							
	G							
	TOTAL	2396	0	286				3285

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0				0
	B	121	0	34				155
	C	29	0	0				29
	D							
	E							
	F							
	G							
	TOTAL	150	0	34				262

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0				0
	B	403	0	0				403
	C	0	0	0				0
	D							
	E							
	F							
	G							
	TOTAL	403	0	0				547

PMNSTM2_2031_B1_PM_v12.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0				0
	B	3015	0	217				3232
	C	168	0	0				168
	D							
	E							
	F							
	G							
	TOTAL	3183	0	217				3400

By Vehicle Type:

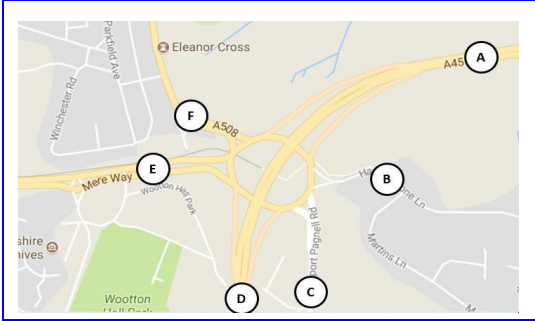
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0				0
	B	2480	0	214				2694
	C	140	0	0				140
	D							
	E							
	F							
	G							
	TOTAL	2620	0	214				3542

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0				0
	B	148	0	3				151
	C	28	0	0				28
	D							
	E							
	F							
	G							
	TOTAL	176	0	3				210

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	0				0
	B	387	0	0				387
	C	0	0	0				0
	D							
	E							
	F							
	G							
	TOTAL	387	0	0				523

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_B1_AM_v12.DAT

MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	83	150	0	1298	480		2011
	B	234	0	0	9	87	173		503
	C	228	0	0	0	324	525		1077
	D	0	0	0	0	24	573		597
	E	1929	18	338	183	0	3		2471
	F	328	10	270	535	8	0		1151
	G								
TOTAL	2719	111	758	727	1741	1754		7810	

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	79	147	0	1020	391		1637
	B	232	0	0	9	86	171		498
	C	227	0	0	0	320	516		1063
	D	0	0	0	0	22	281		303
	E	1500	16	325	177	0	3		2021
	F	316	9	250	430	8	0		1013
	G								
TOTAL	2275	104	722	616	1456	1362		6535	

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	4	3	0	59	32		98
	B	2	0	0	0	1	2		5
	C	1	0	0	0	3	7		11
	D	0	0	0	0	2	39		41
	E	35	2	4	6	0	0		47
	F	11	1	6	49	0	0		67
	G								
TOTAL	49	7	13	55	65	80		269	

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	0	0	219	57		276
	B	0	0	0	0	0	0		0
	C	0	0	0	0	1	2		3
	D	0	0	0	0	0	253		253
	E	394	0	9	0	0	0		403
	F	1	0	14	56	0	0		71
	G								
TOTAL	395	0	23	56	220	312		1006	

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MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	566	58	0	1208	179		2011
	B	487	0	0	12	43	171		713
	C	184	0	0	2	787	475		1448
	D	0	24	3	0	115	600		742
	E	1869	63	344	386	0	5		2667
	F	557	109	187	485	34	0		1372
	G								
TOTAL	3097	762	592	885	2187	1430		8953	

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	563	58	0	1073	158		1852
	B	466	0	0	12	42	168		688
	C	183	0	0	2	770	455		1410
	D	0	24	3	0	111	570		708
	E	1647	62	342	384	0	5		2440
	F	538	104	174	448	32	0		1296
	G								
TOTAL	2834	753	577	846	2028	1356		8394	

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	3	0	0	60	21		84
	B	15	0	0	0	1	3		19
	C	1	0	0	0	17	20		38
	D	0	0	0	0	2	13		15
	E	48	1	2	1	0	0		52
	F	19	5	6	4	2	0		36
	G								
TOTAL	83	9	8	5	82	57		244	

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	0	0	75	0		75
	B	6	0	0	0	0	0		6
	C	0	0	0	0	0	0		0
	D	0	0	0	0	2	17		19
	E	174	0	0	1	0	0		175
	F	0	0	7	33	0	0		40
	G								
TOTAL	180	0	7	34	77	17		315	

Junction Turning Flows

Junction: **A508/High St mini-roundabout**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	81041	21313	21313	81041	A508 North
B	90009	21313	21313	90009	High Street
C	70611	21313	21313	70611	A508 South
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2021 B1 AM v12.DAT

MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	53	819				873
	B	59	0	65				123
	C	677	8	0				685
	D							
	E							
	F							
	G							
	TOTAL	736	61	884				

By Vehicle Type:

MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	53	711				764
	B	55	0	65				119
	C	537	2	0				539
	D							
	E							
	F							
	G							
	TOTAL	592	54	776				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	12				12
	B	2	0	0				2
	C	29	0	0				29
	D							
	E							
	F							
	G							
	TOTAL	31	0	12				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	1	96				97
	B	2	0	0				2
	C	111	6	0				117
	D							
	E							
	F							
	G							
	TOTAL	113	7	96				

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MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	16	460				475
	B	16	0	183				199
	C	720	43	0				763
	D							
	E							
	F							
	G							
	TOTAL	736	58	643				

By Vehicle Type:

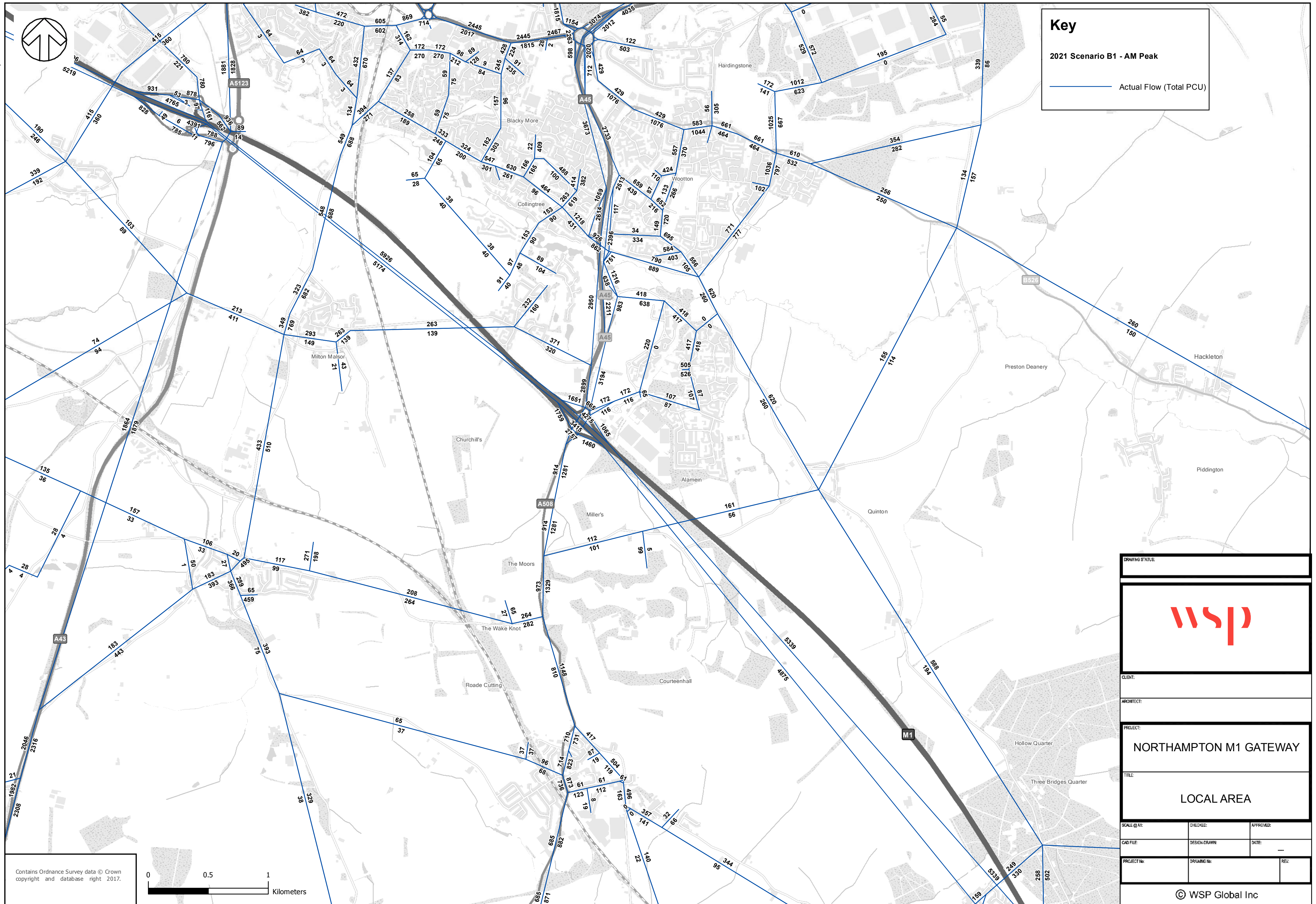
MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	15	360				375
	B	15	0	183				198
	C	627	43	0				670
	D							
	E							
	F							
	G							
	TOTAL	643	57	543				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	1	1				2
	B	1	0	0				1
	C	20	0	0				20
	D							
	E							
	F							
	G							
	TOTAL	20	1	1				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	99				99
	B	0	0	0				0
	C	73	0	0				73
	D							
	E							
	F							
	G							
	TOTAL	73	0	99				

2021 REFERENCE CASE (SCENARIO B1)

NSTM2 Actual Flow Plots (link flows)

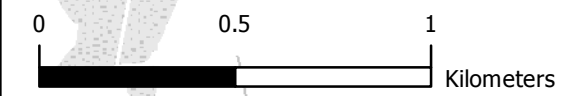


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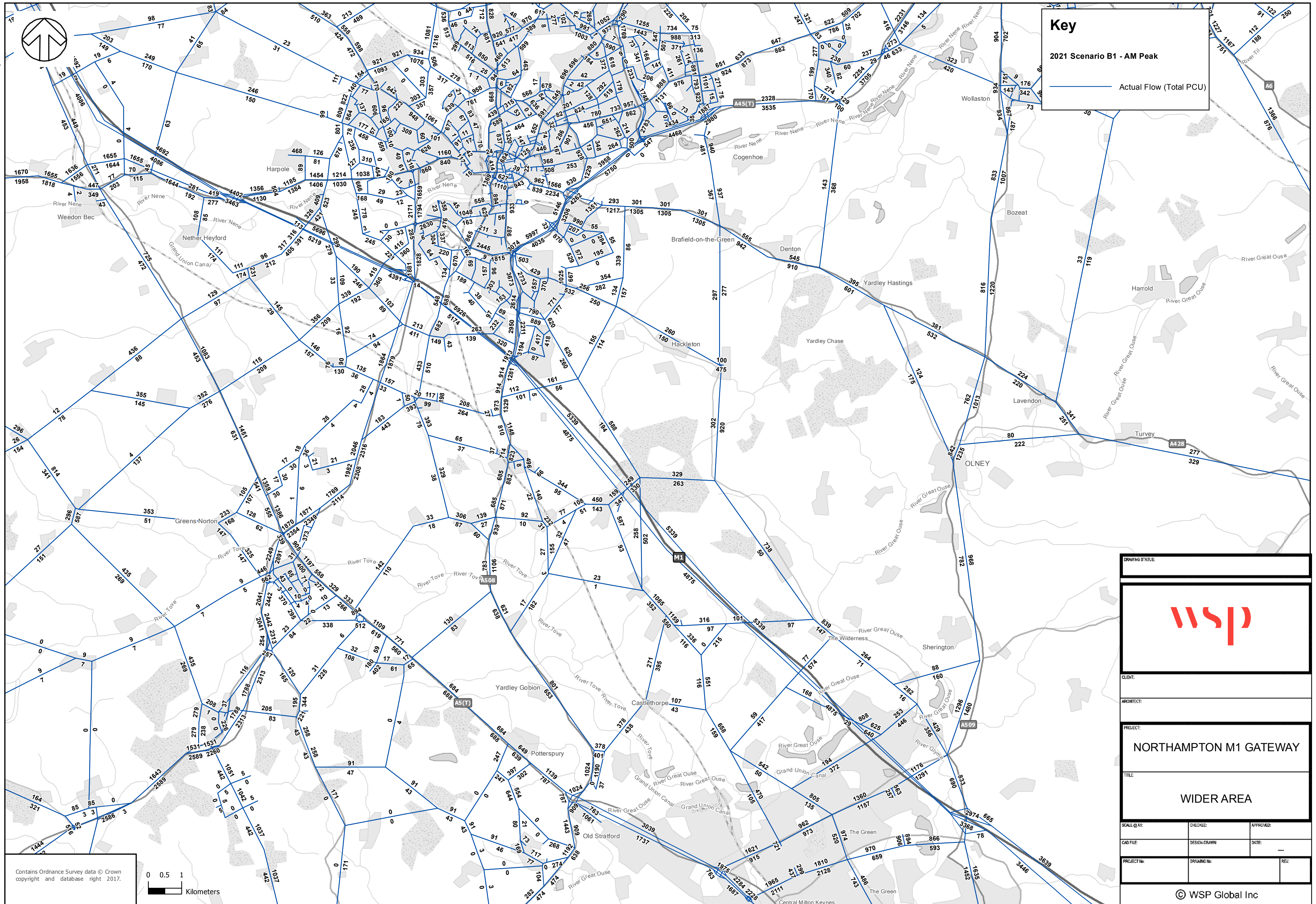
2021 Scenario B1 - AM Peak

— 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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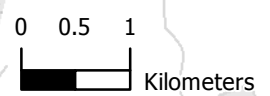


Key


2021 Scenario B1 - AM Peak

Actual Flow (Total PCU)

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

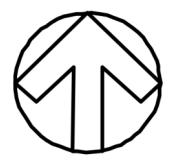
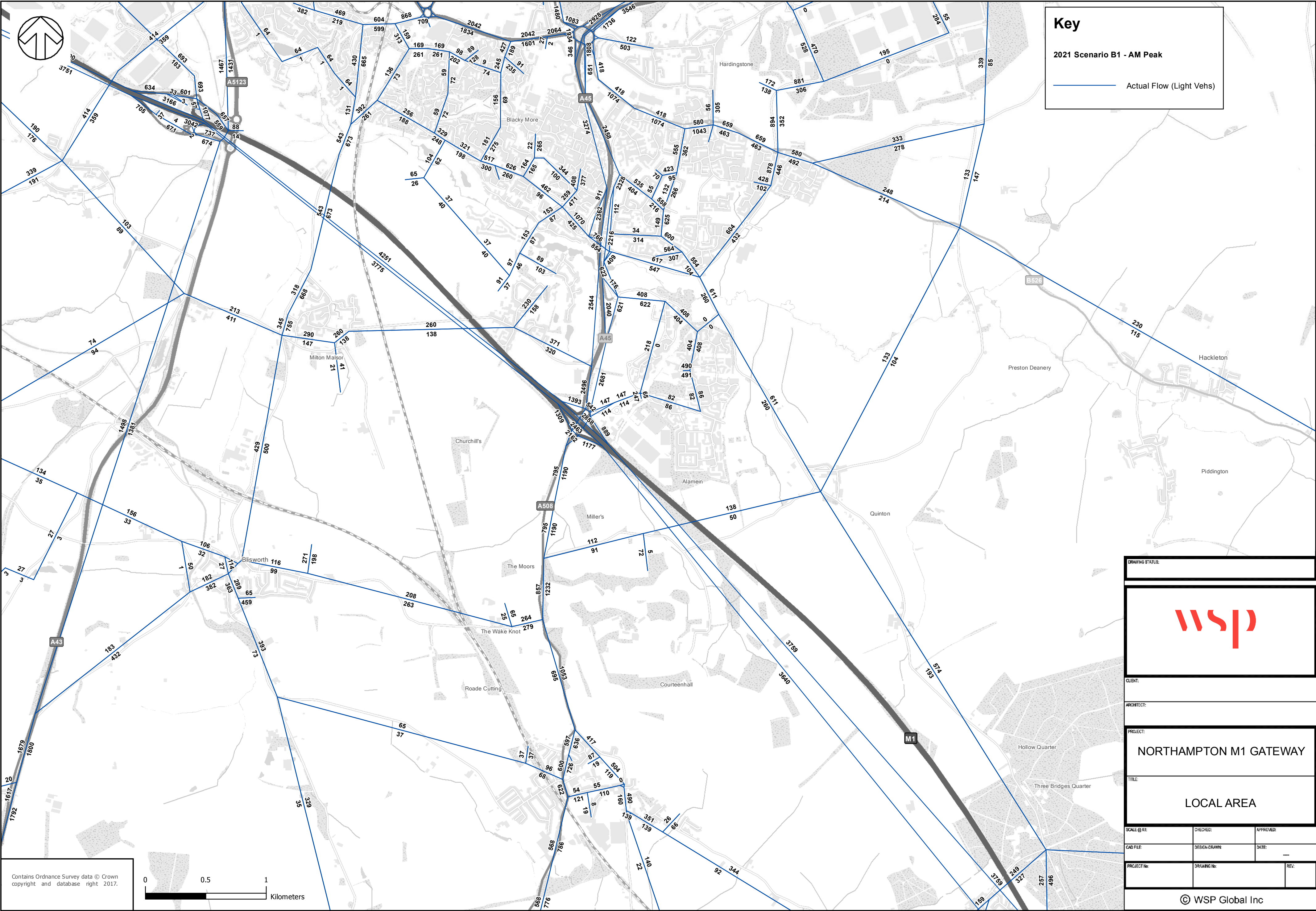
NORTHAMPTON M1 GATEWAY

TITLE:

WIDER AREA

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

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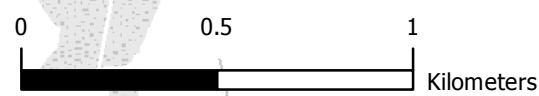


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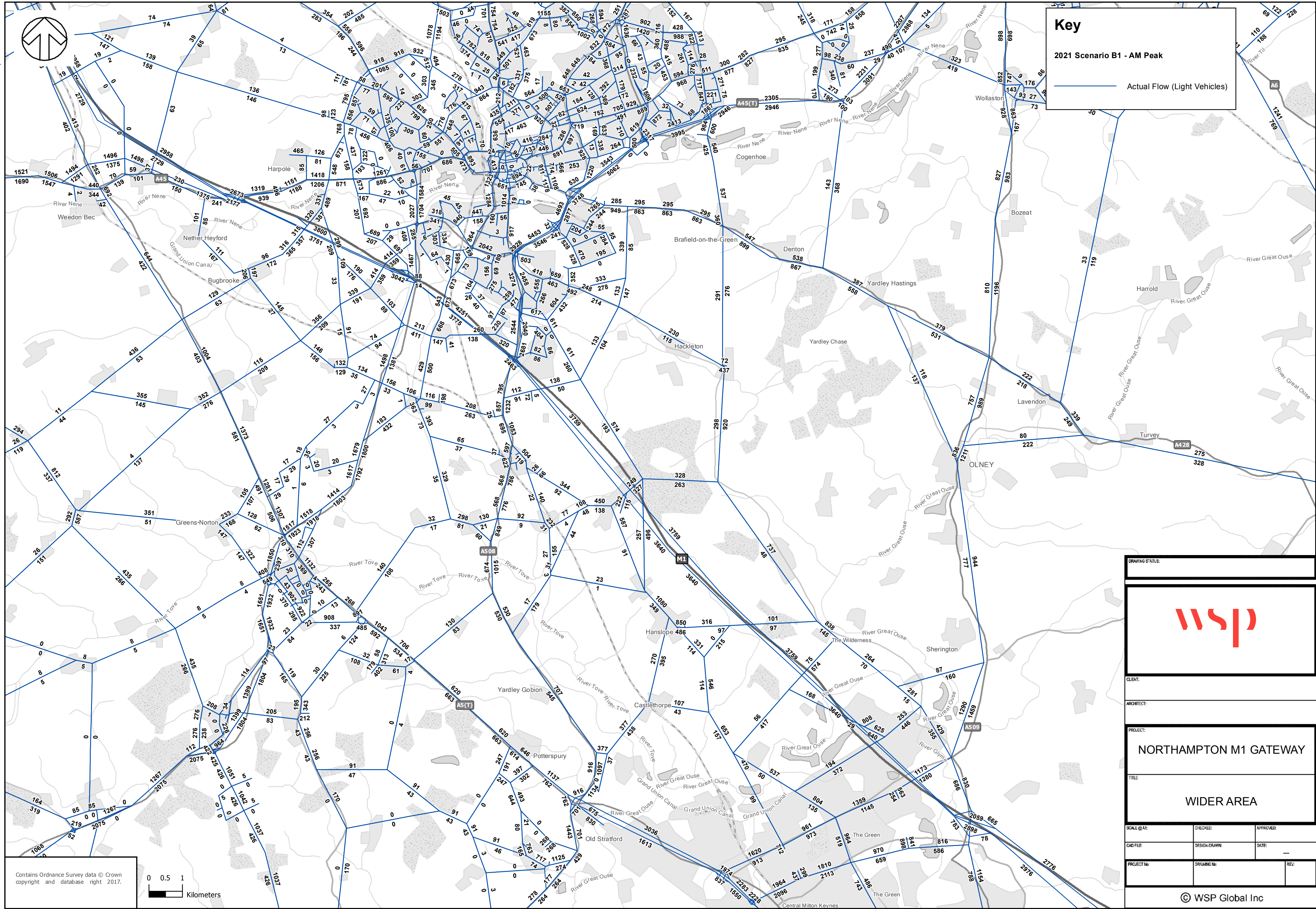
2021 Scenario B1 - AM Peak

— 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:
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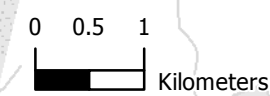


Key


2021 Scenario B1 - AM Peak

— Actual Flow (Light Vehicles)

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CLIENT:

ARCHITECT:

PROJECT:

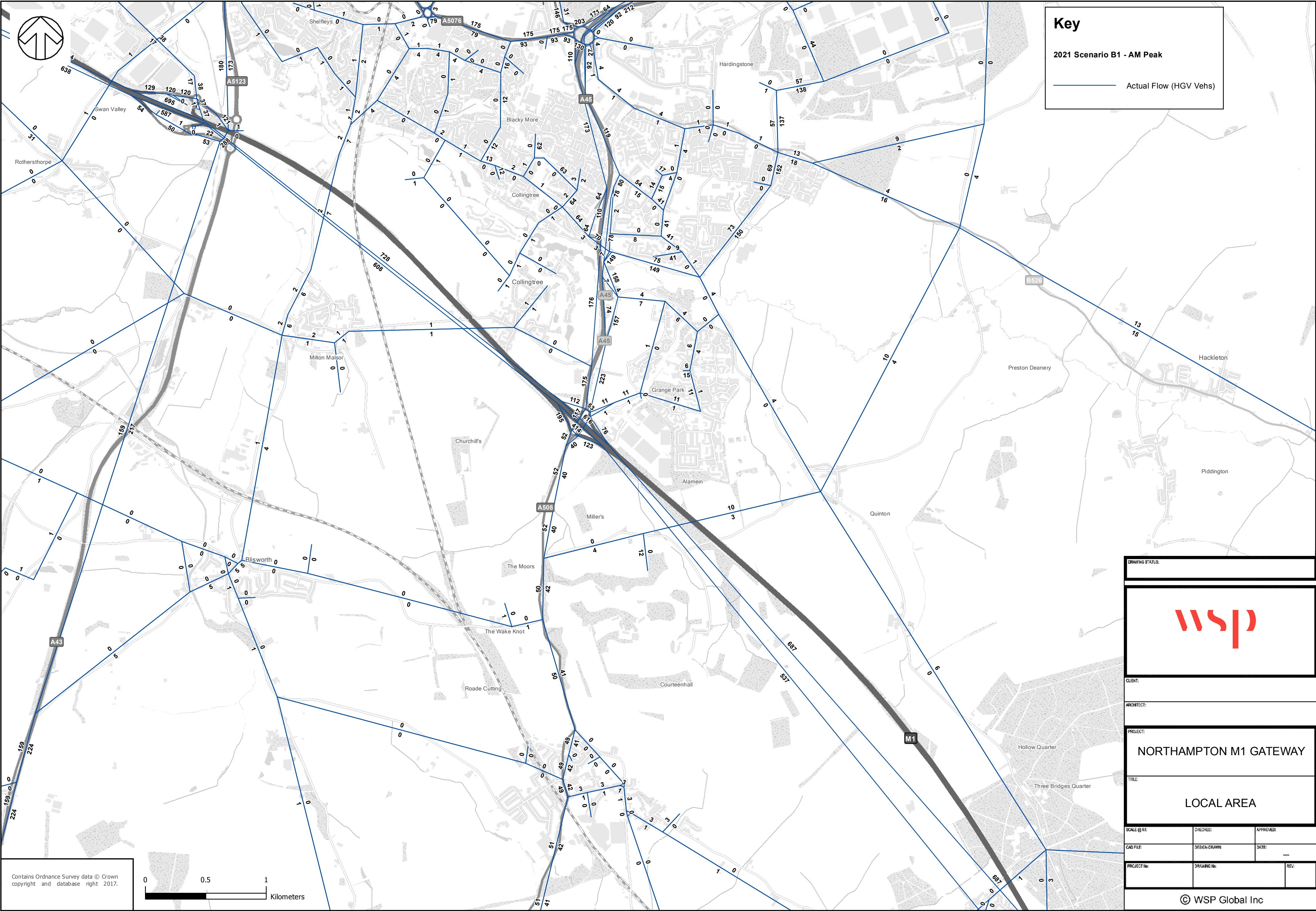
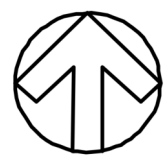
NORTHAMPTON M1 GATEWAY

TITLE:

WIDER AREA

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

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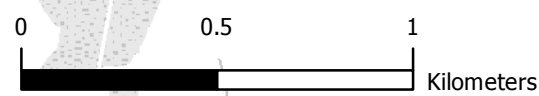


Key


2021 Scenario B1 - AM Peak

— Actual Flow (HGV Vehs)

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PROJECT:

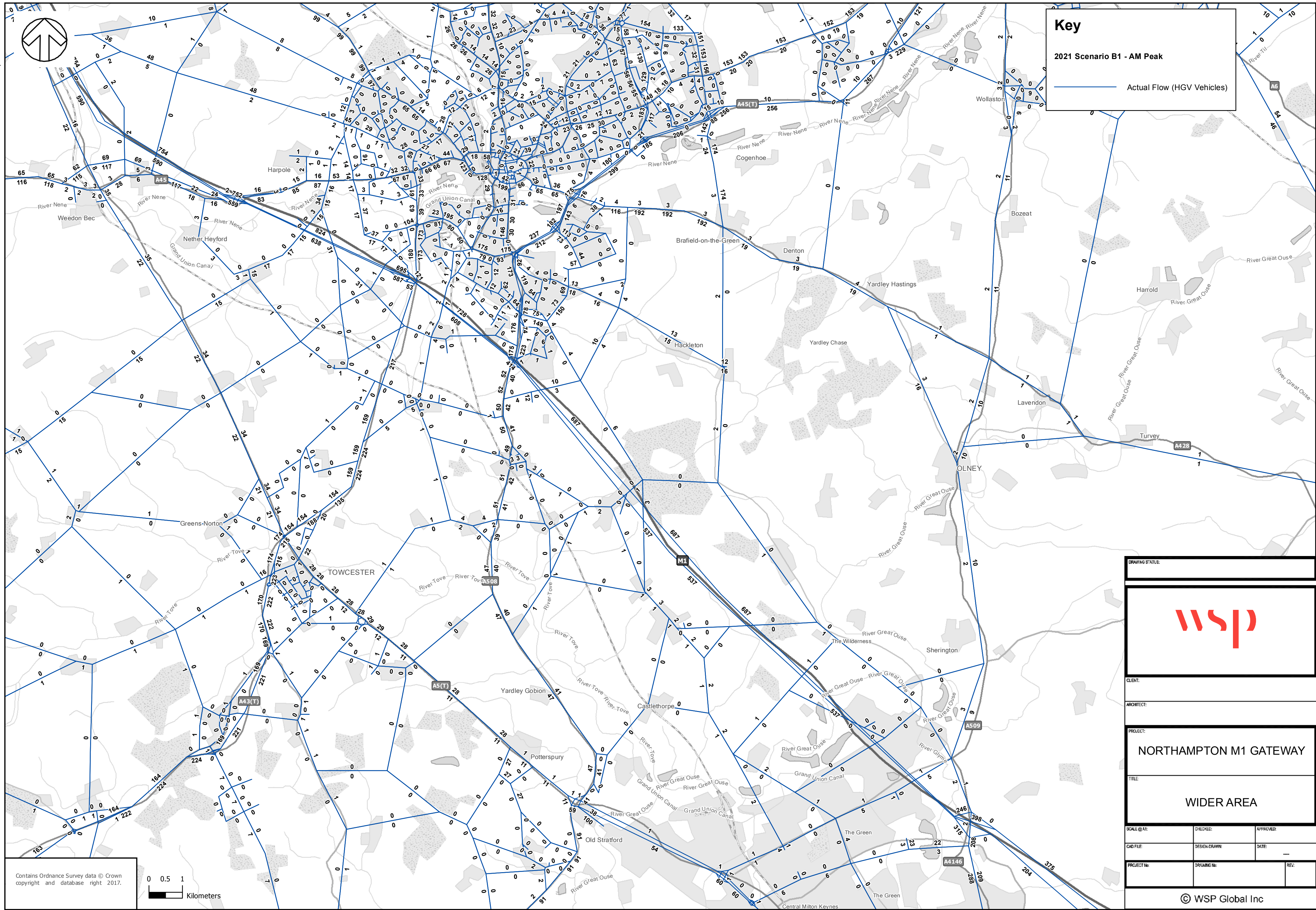
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TITLE:

LOCAL AREA

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

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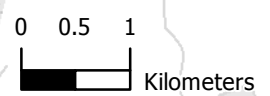


Key


2021 Scenario B1 - AM Peak

— Actual Flow (HGV Vehicles)

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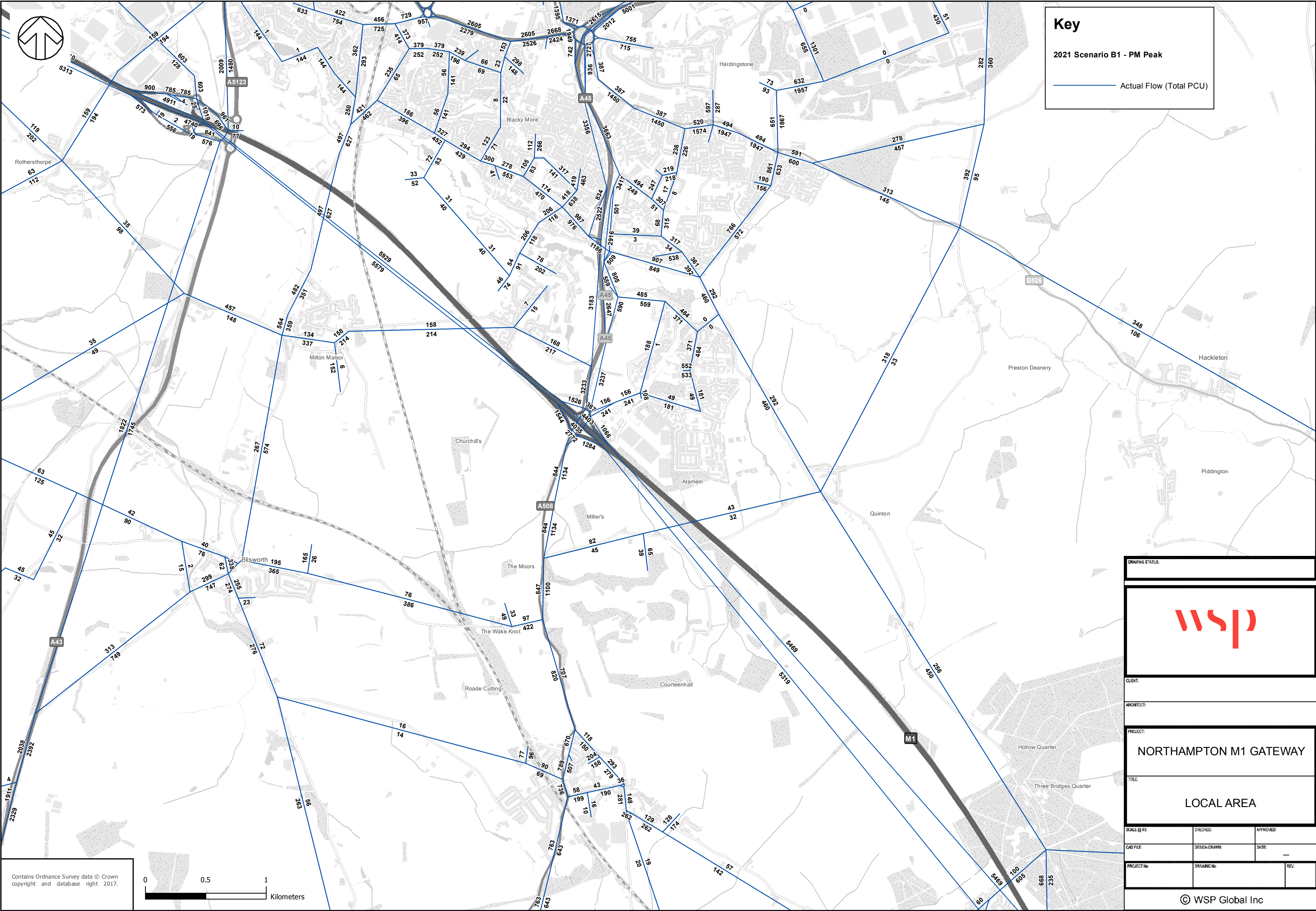
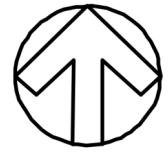
NORTHAMPTON M1 GATEWAY

TITLE:

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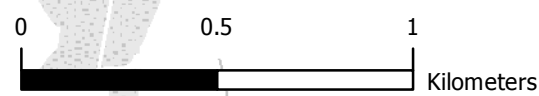


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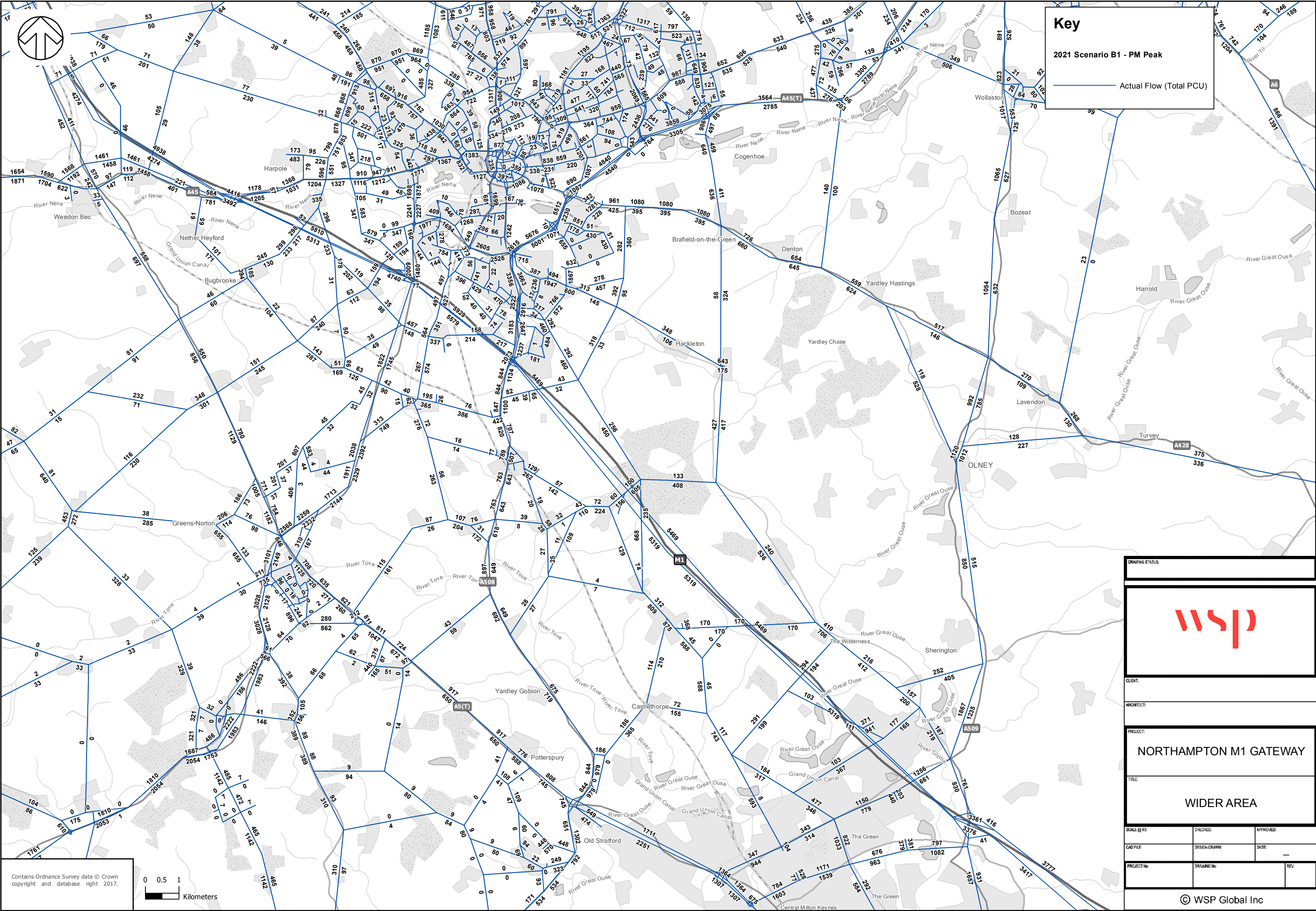
2021 Scenario B1 - PM Peak

— Actual Flow (Total PCU)

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DRAWING STATUS:		
CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
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PROJECT No:	DRAWING No:	REV:
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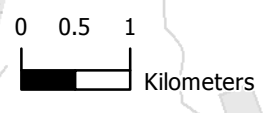


Key


2021 Scenario B1 - PM Peak

— Actual Flow (Total PCU)

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PROJECT:

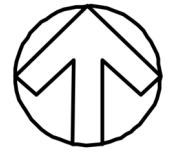
NORTHAMPTON M1 GATEWAY

TITLE:

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SCALE @ A1:	CHECKED:	APPROVED:
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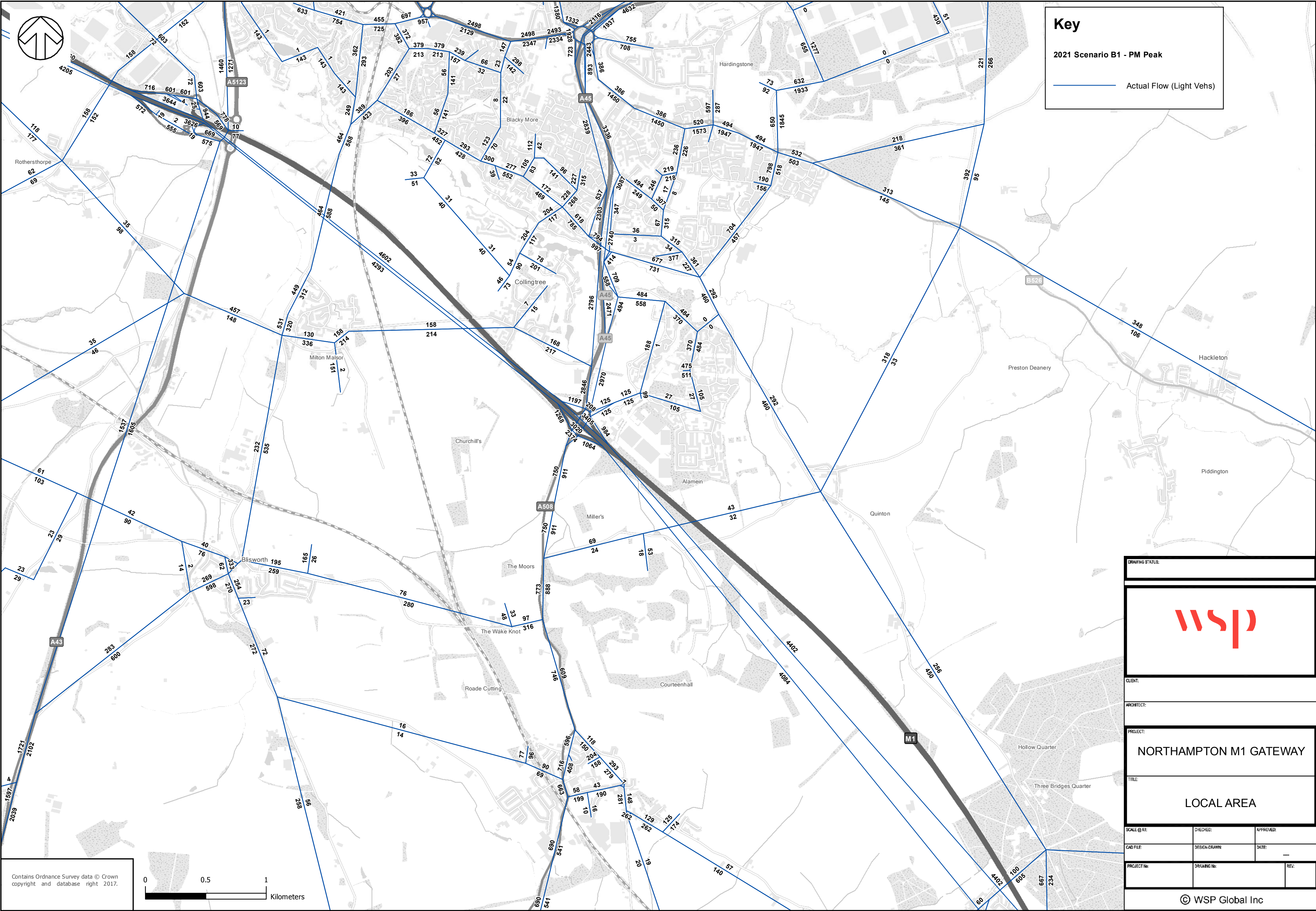
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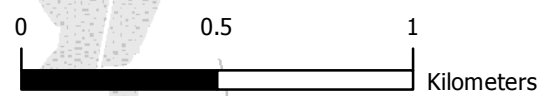
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2021 Scenario B1 - PM Peak


— Actual Flow (Light Vehs)



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PROJECT:

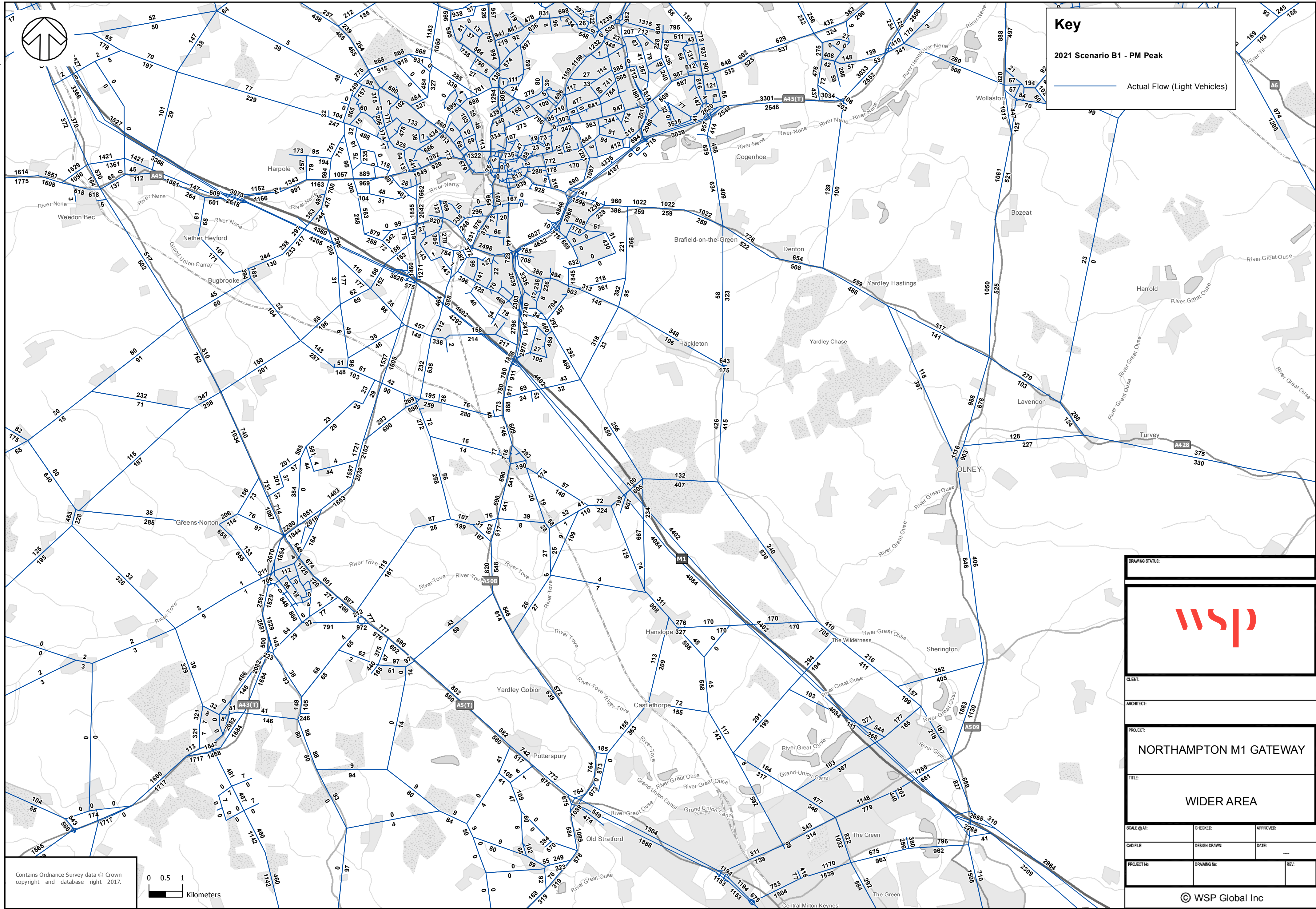
NORTHAMPTON M1 GATEWAY

TITLE:

LOCAL AREA

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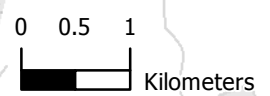


Key


2021 Scenario B1 - PM Peak

— Actual Flow (Light Vehicles)

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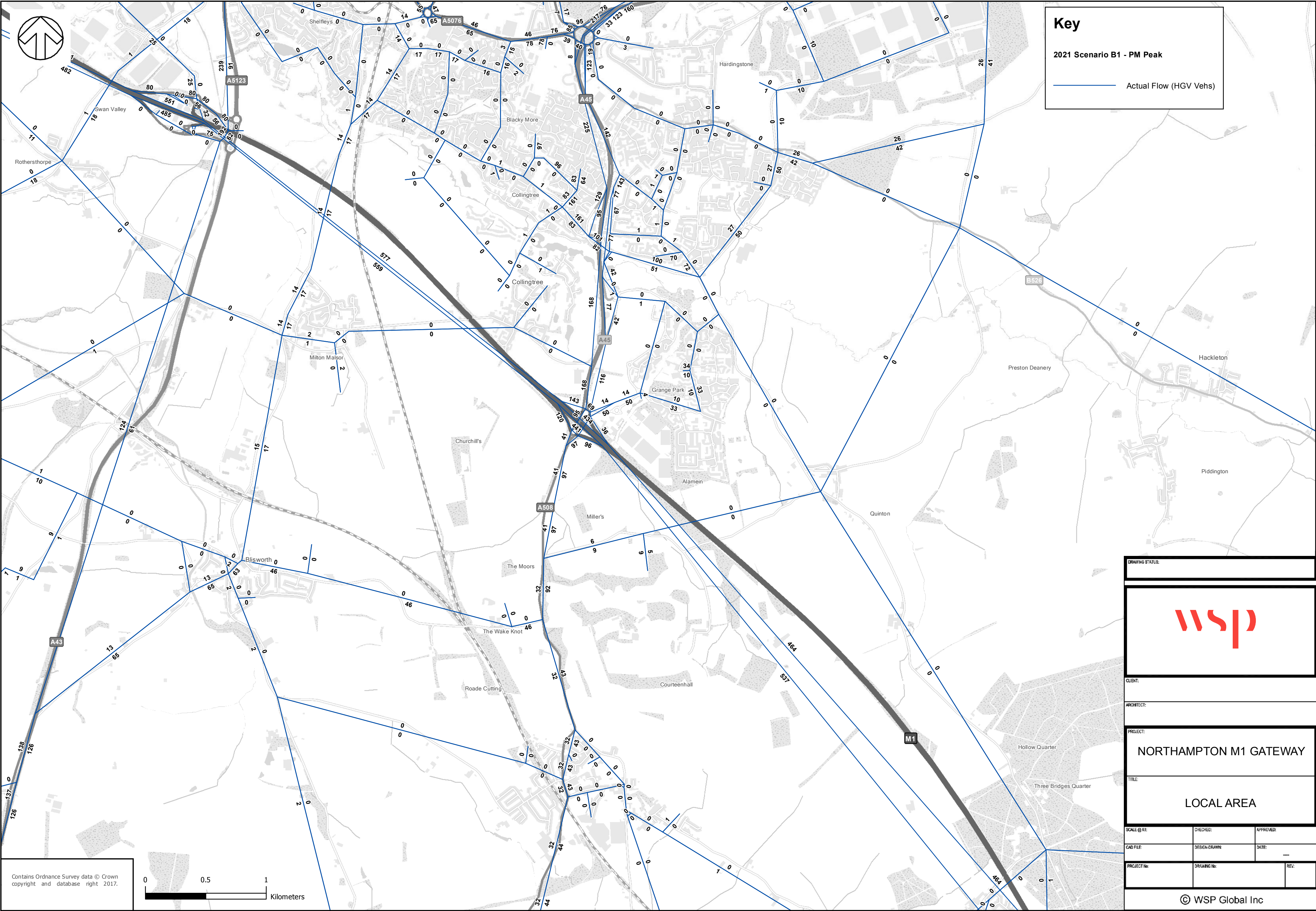
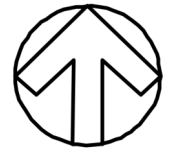
NORTHAMPTON M1 GATEWAY

TITLE:

WIDER AREA

SCALE @ A1:	CHECKED:	APPROVED:
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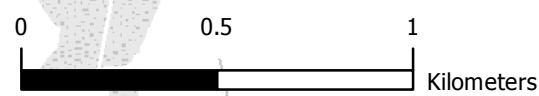


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2021 Scenario B1 - PM Peak

— Actual Flow (HGV Vehs)

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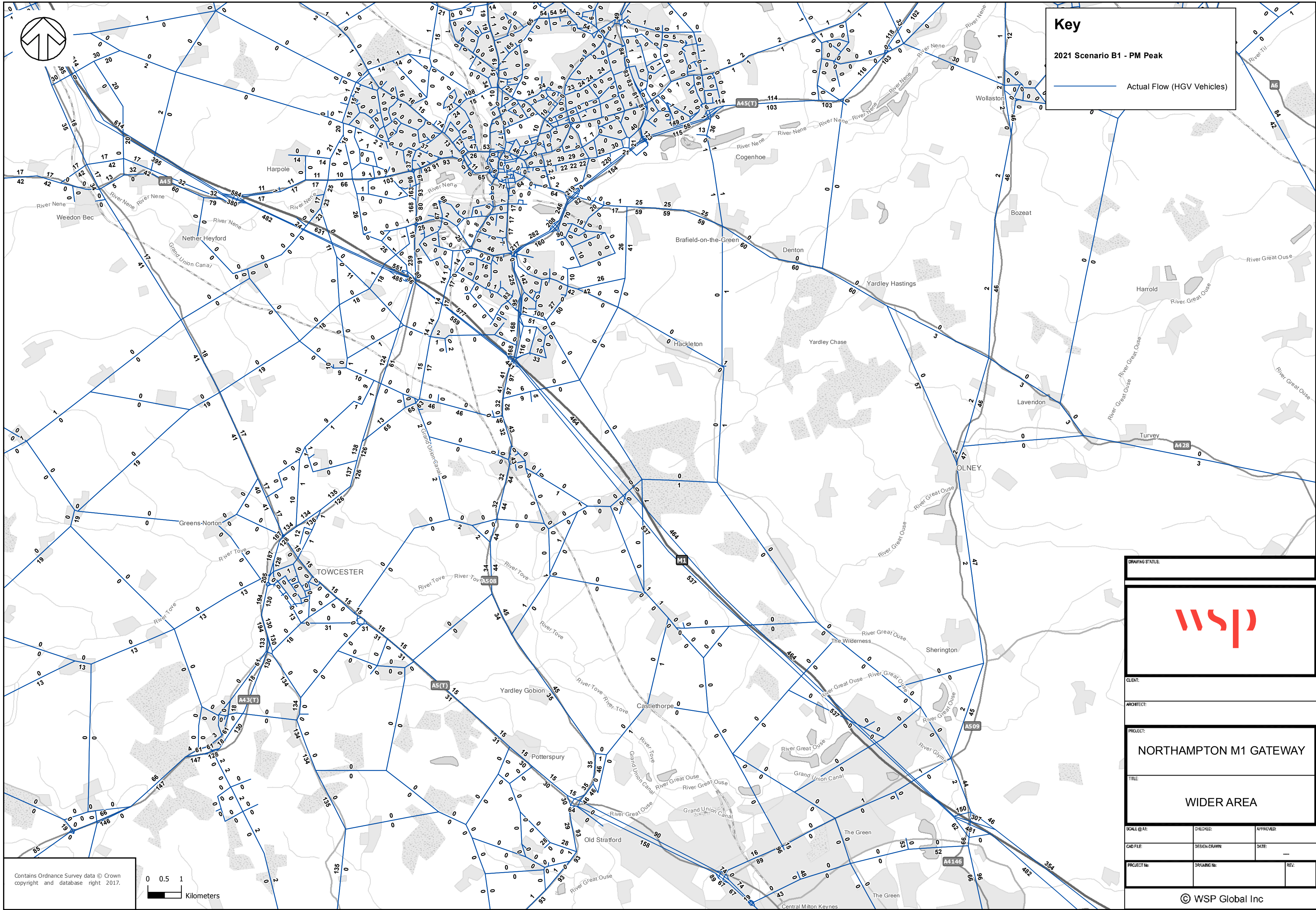
NORTHAMPTON M1 GATEWAY

TITLE:

LOCAL AREA

SCALE @ A1:	CHECKED:	APPROVED:
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PROJECT No:	DRAWING No:	REV:

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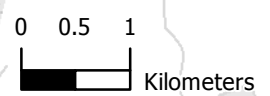


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2021 Scenario B1 - PM Peak

— Actual Flow (HGV Vehicles)

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NORTHAMPTON M1 GATEWAY

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2021 DEVELOPMENT CASE
NO HIGHWAY MITIGATION (SCENARIO E1)

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	9106	9220	9117	9118	M1 West
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AM2021 E1 AM v9.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	62	34	987	737	1393		3213
	B	45	0	18	21	29		113
	C	1302	38	0	121	0		1461
	D	593	15	103	0	332		1043
	E	1093	79	0	507	1		1680
	F							
	G							
TOTAL	3095	166	1108	1386	1755		7510	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	56	33	785	635	985		2494
	B	45	0	16	21	29		111
	C	1003	9	0	89	0		1101
	D	532	14	85	0	205		836
	E	866	79	0	395	0		1340
	F							
	G							
TOTAL	2502	135	886	1140	1219		5882	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	6	1	93	55	41		196
	B	0	0	1	0	0		1
	C	62	0	0	10	0		72
	D	29	0	1	0	6		36
	E	55	0	0	9	0		64
	F							
	G							
TOTAL	152	1	95	74	47		369	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	109	47	367		523
	B	0	0	1	0	0		1
	C	237	29	0	22	0		288
	D	32	1	17	0	121		171
	E	172	0	0	103	1		276
	F							
	G							
TOTAL	441	30	127	172	489		1259	

PM2021 E1 PM v9.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	170	87	909	757	1237		3160
	B	23	0	119	12	86		240
	C	1147	22	0	90	0		1259
	D	738	19	57	0	320		1134
	E	1143	93	0	293	1		1530
	F							
	G							
TOTAL	3221	221	1085	1152	1644		7323	

By Vehicle Type:

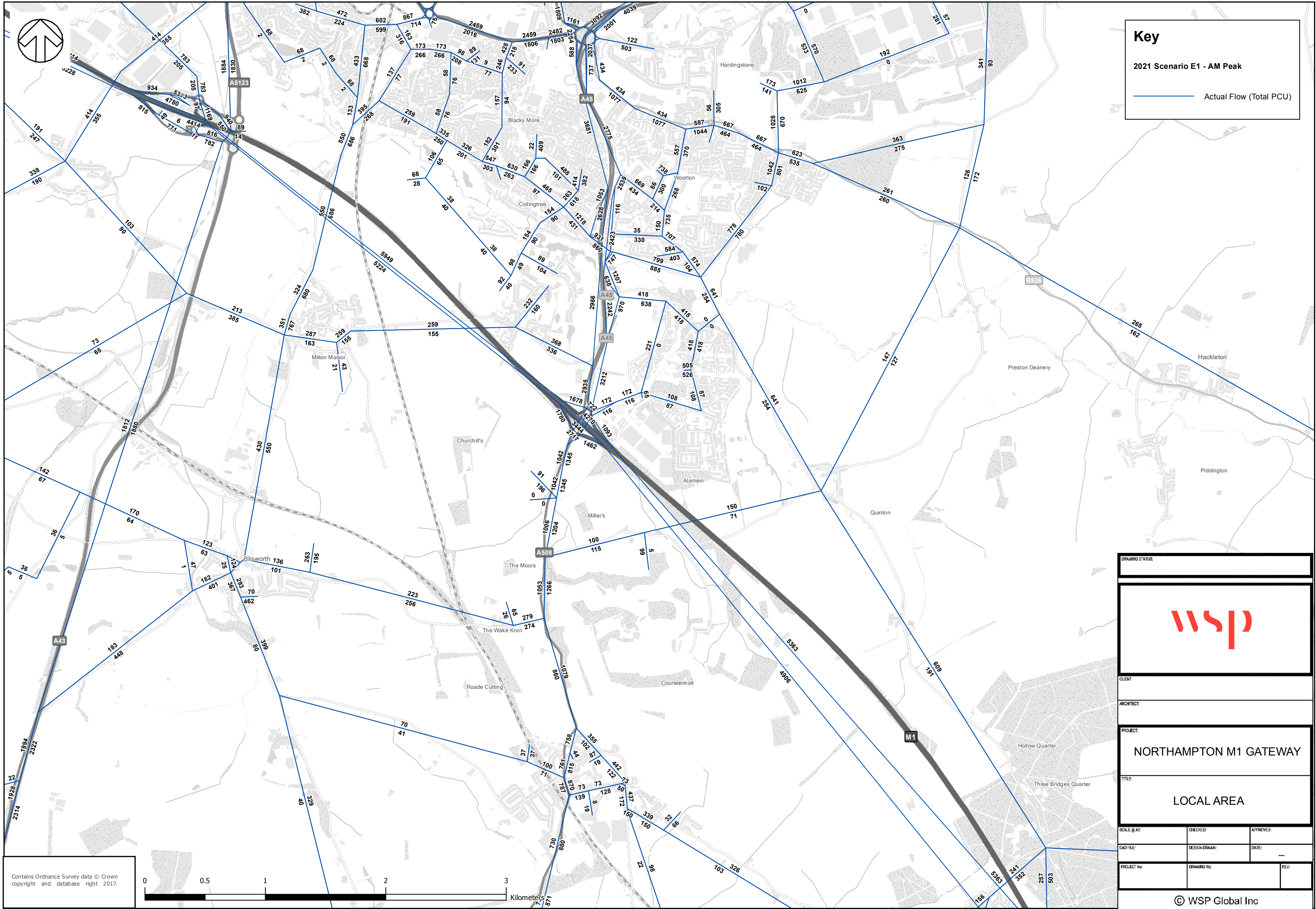
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	164	84	814	645	1105		2812
	B	22	0	77	12	12		123
	C	885	13	0	70	0		968
	D	682	17	37	0	212		948
	E	914	51	0	132	1		1098
	F							
	G							
TOTAL	2667	165	928	859	1330		5949	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	6	2	35	10	24		77
	B	1	0	0	0	0		1
	C	48	2	0	2	0		52
	D	26	0	5	0	3		34
	E	66	2	0	18	0		86
	F							
	G							
TOTAL	147	6	40	30	27		250	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	60	102	108		271
	B	0	0	42	0	74		116
	C	214	7	0	18	0		239
	D	30	2	15	0	105		152
	E	163	40	0	143	0		346
	F							
	G							
TOTAL	407	50	117	263	287		1124	

2021 DEVELOPMENT CASE
NO HIGHWAY MITIGATION (SCENARIO E1)

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




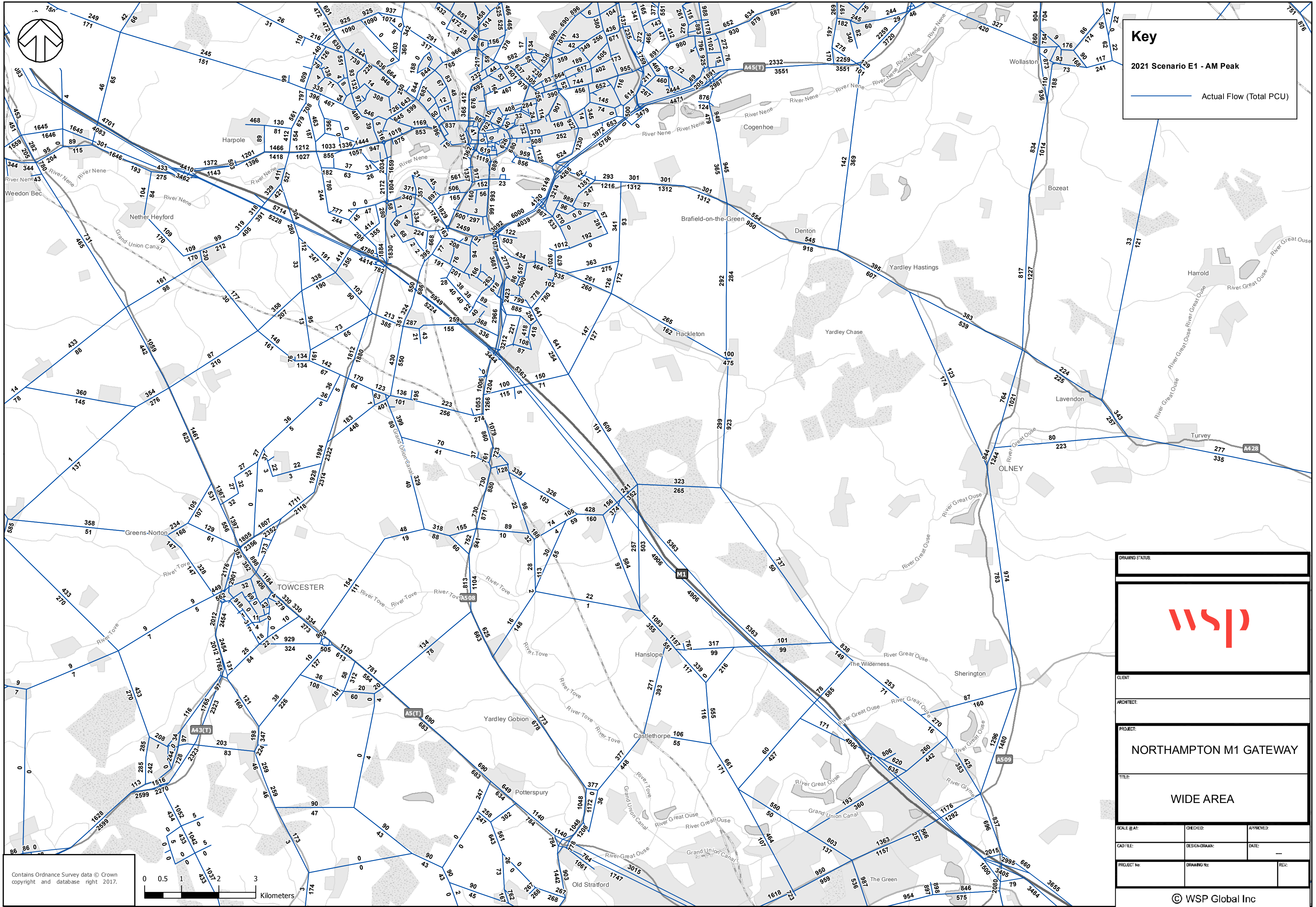
Key

2021 Scenario E1 - AM Peak

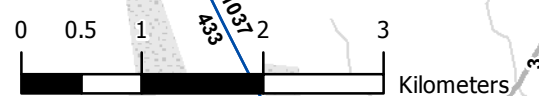
— Actual Flow (Total PCU)

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

2021 Scenario E1 - AM Peak

— Actual Flow (Total PCU)

DRAWING STATUS:



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PROJECT:

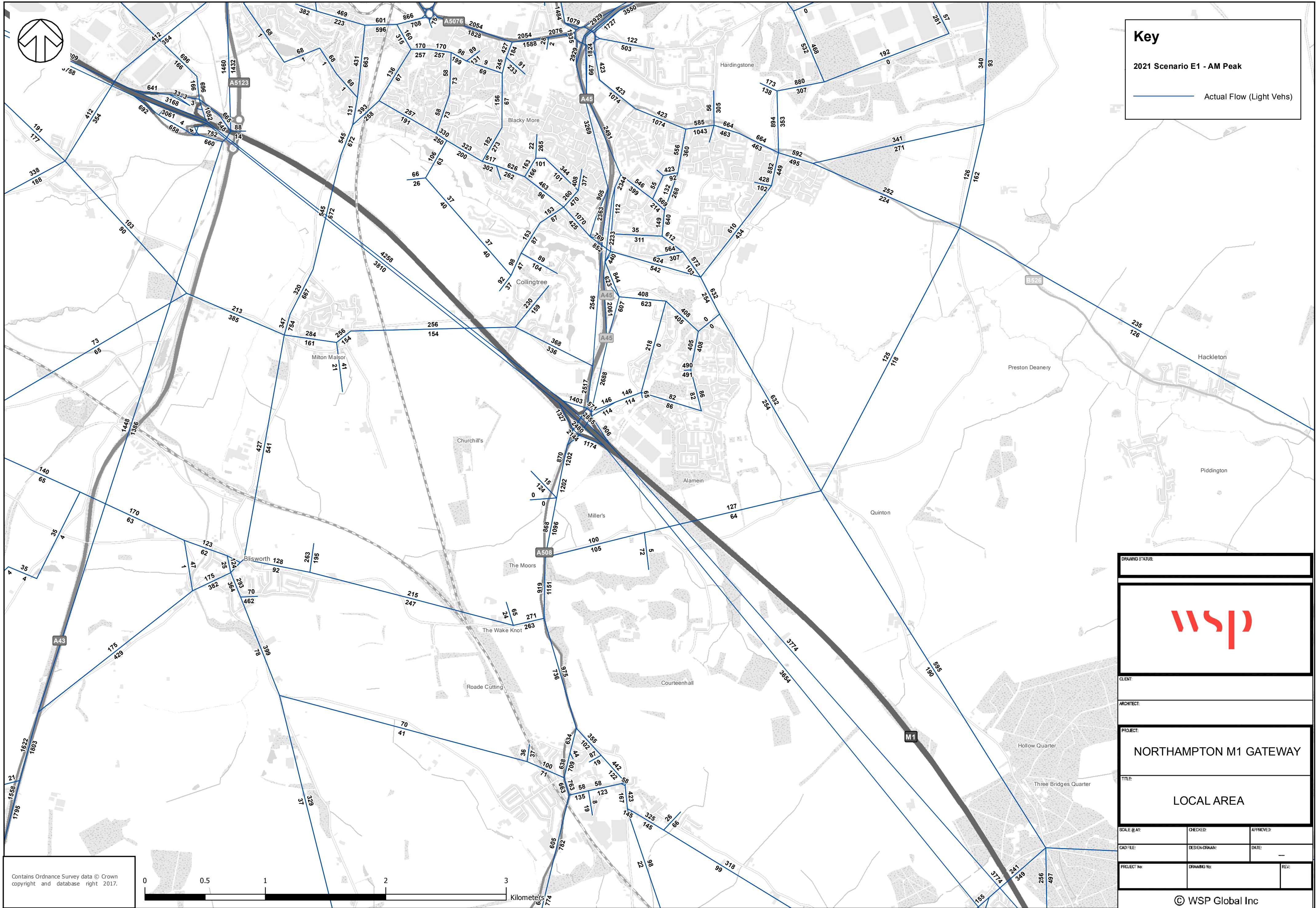
NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
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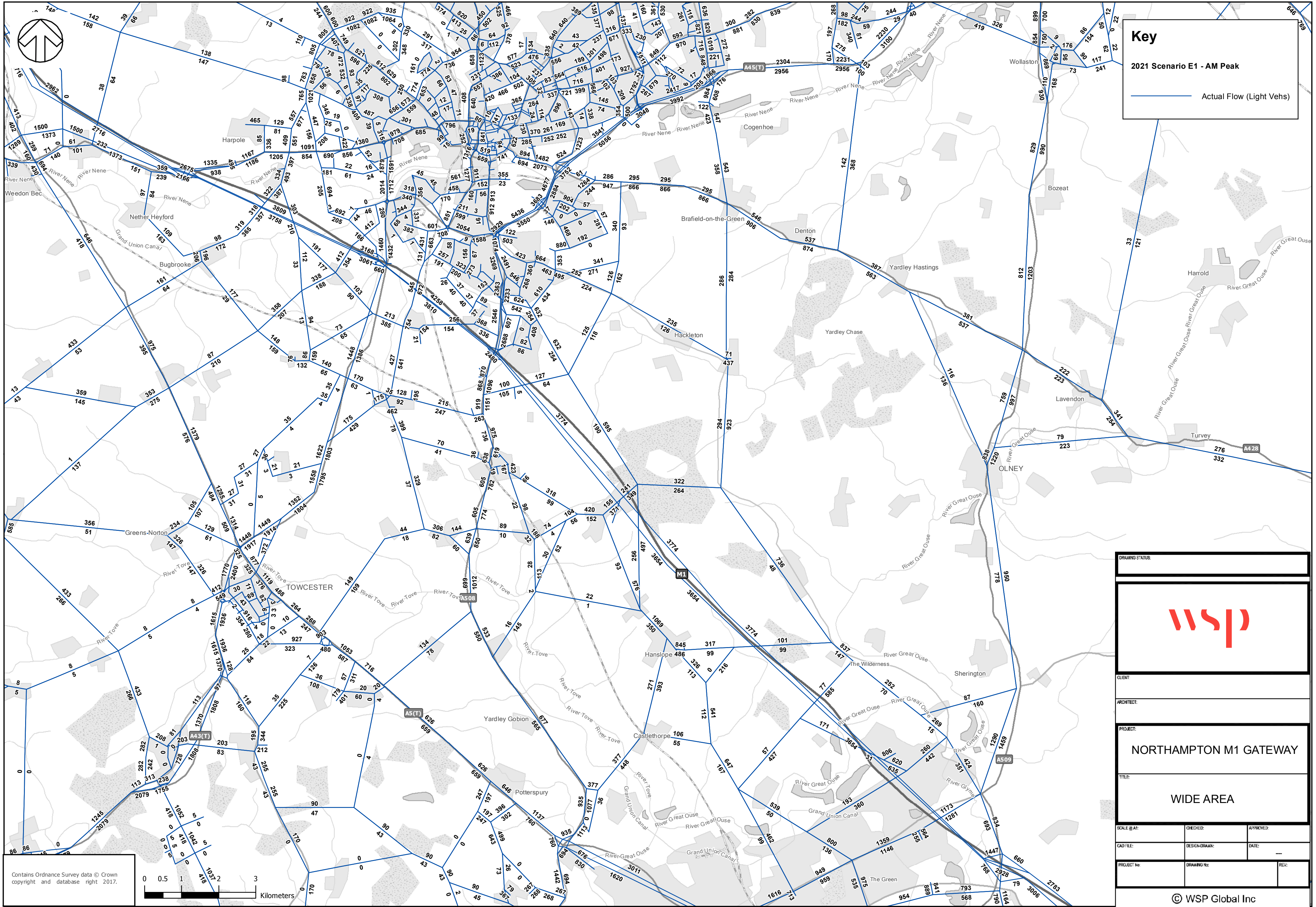
2021 Scenario E1 - AM Peak

— Actual Flow (Light Vechs)

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CLIENT:		
ARCHITECT:		
PROJECT:		
NORTHAMPTON M1 GATEWAY		
TITLE:		
LOCAL AREA		
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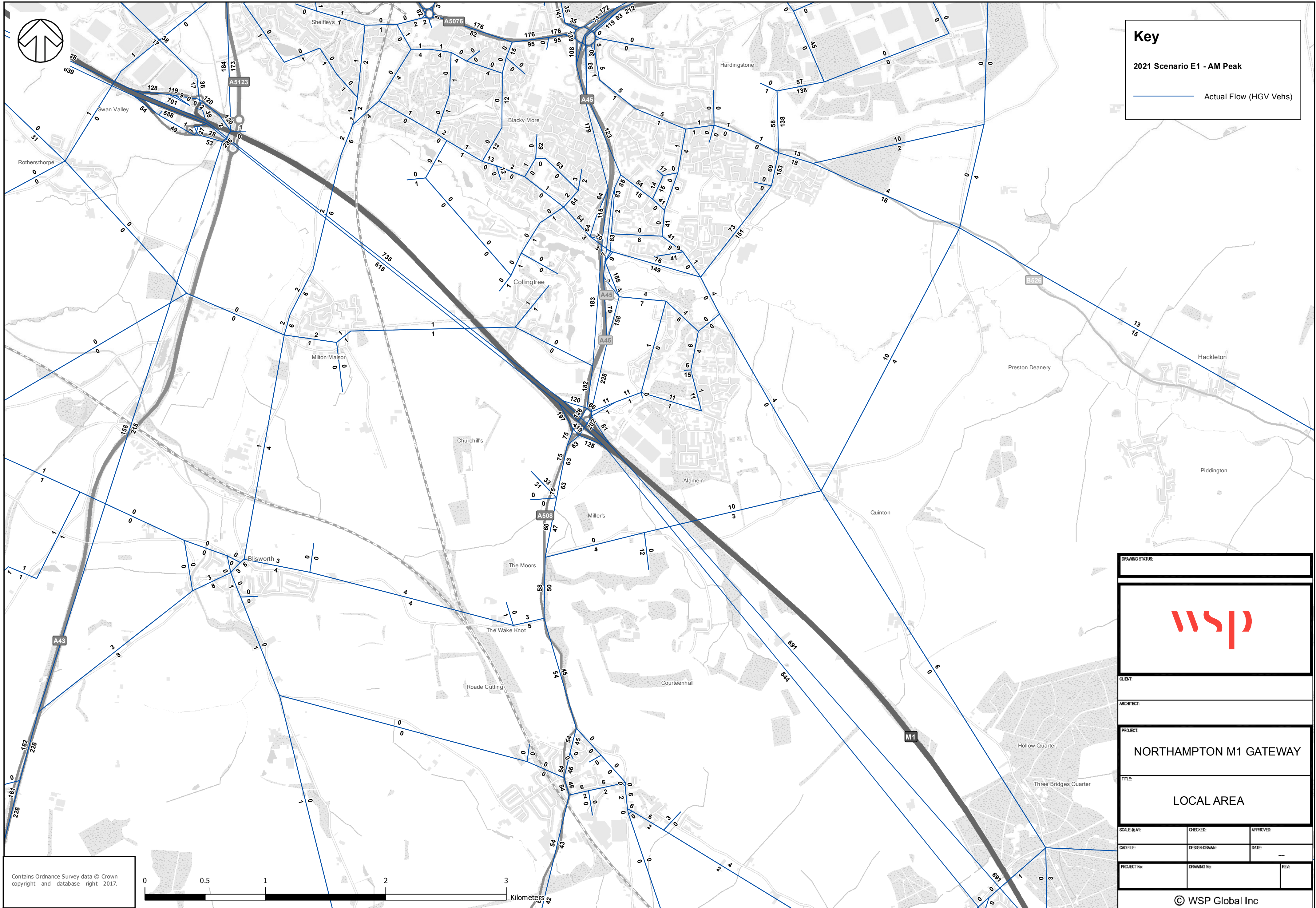
2021 Scenario E1 - AM Peak

— Actual Flow (Light Vehs)

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ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: WIDE AREA		
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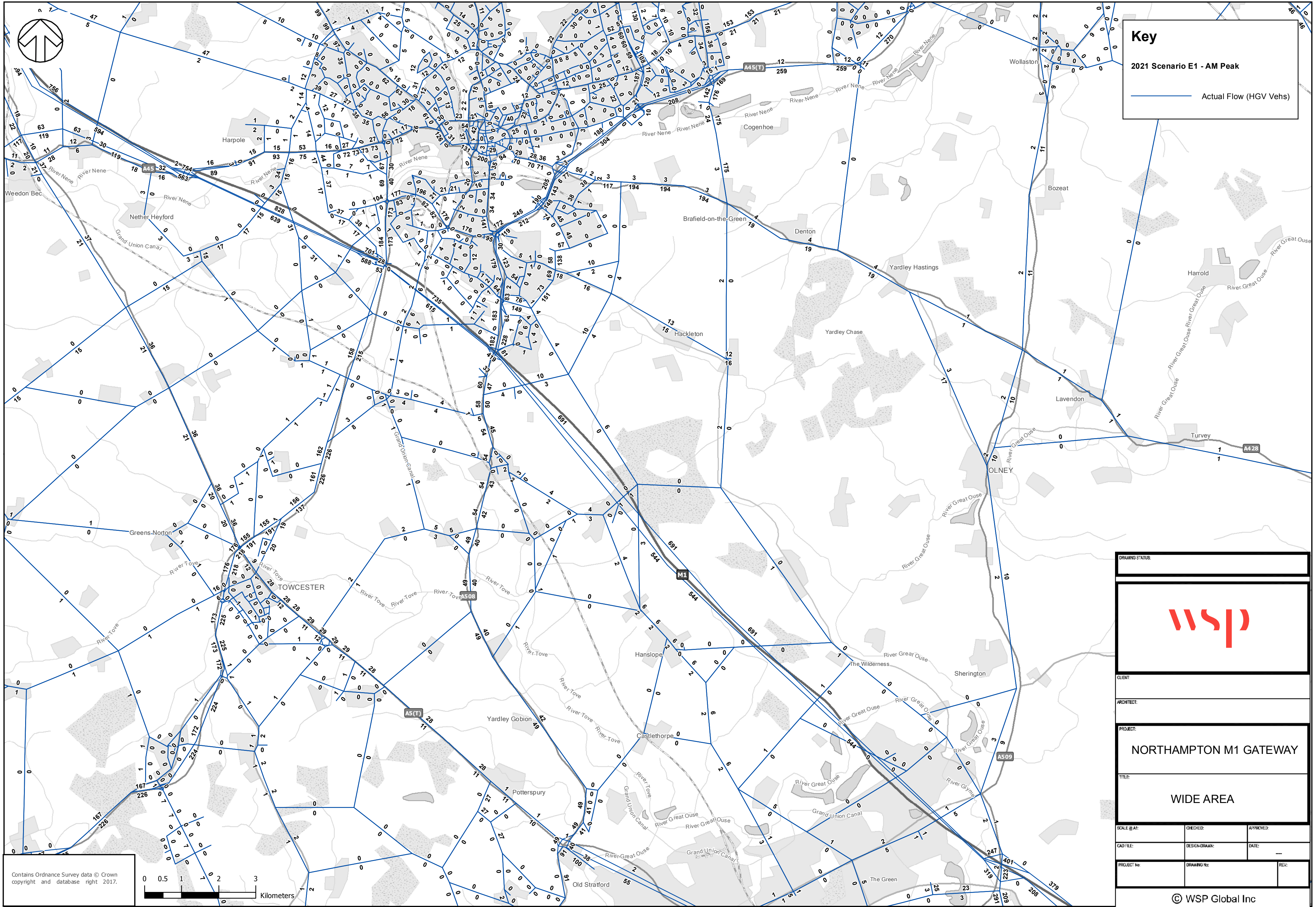
Key

2021 Scenario E1 - AM Peak

— Actual Flow (HGV Vehs)

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PROJECT: NORTHAMPTON M1 GATEWAY		
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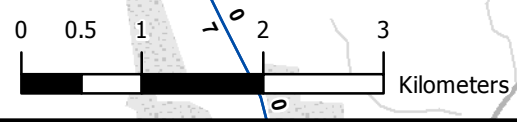


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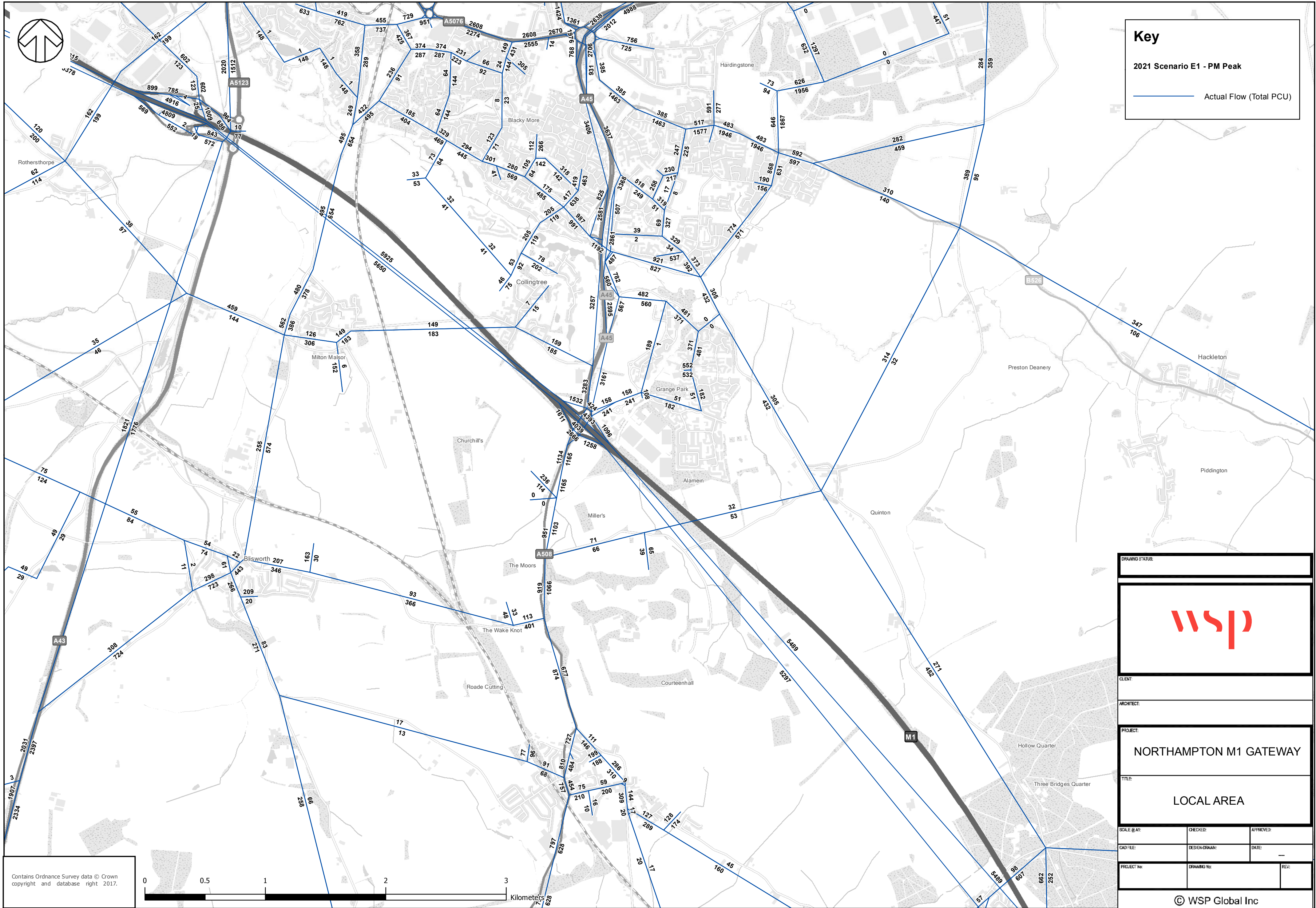
2021 Scenario E1 - AM Peak

— Actual Flow (HGv Vehs)

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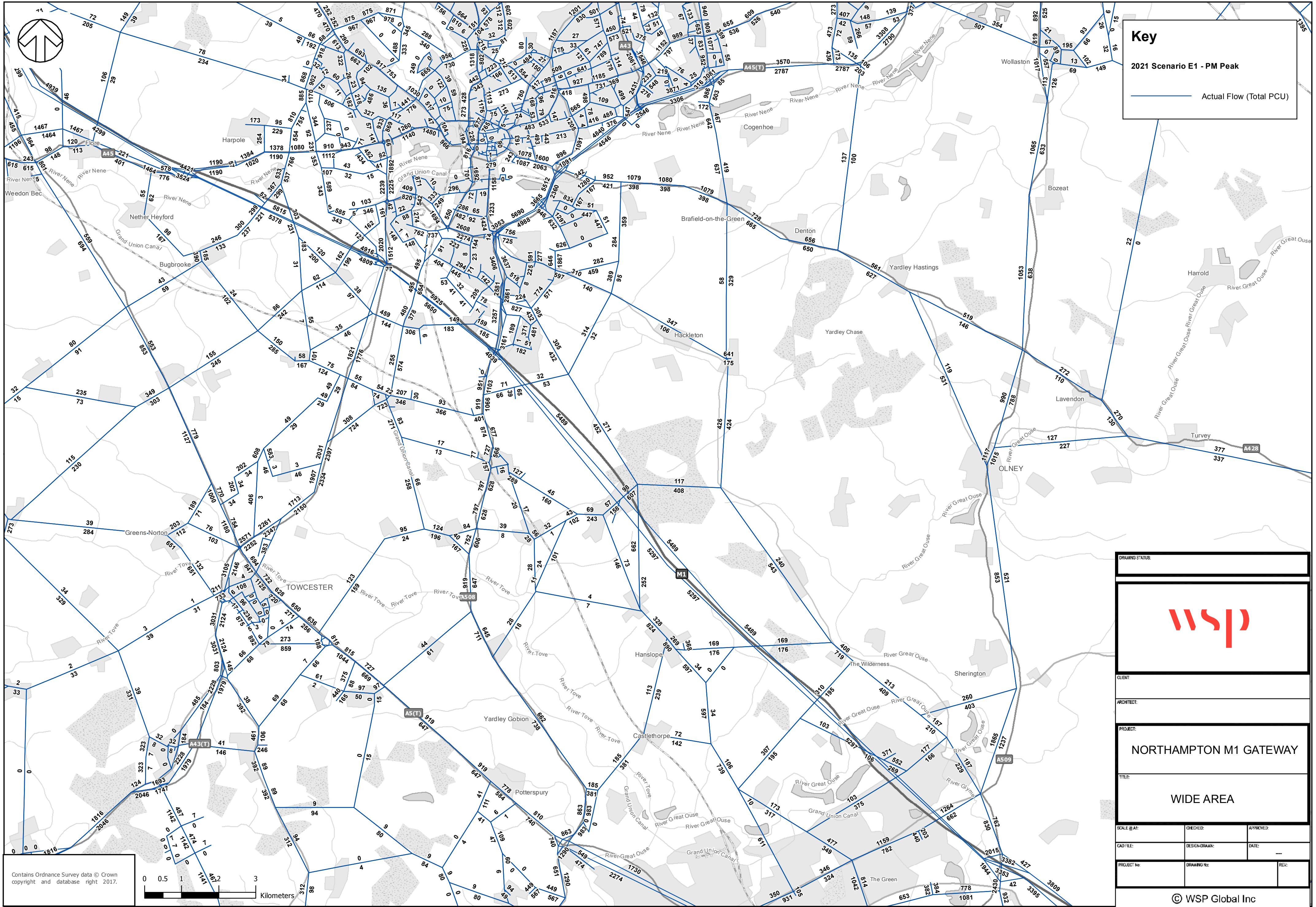
2021 Scenario E1 - PM Peak

— Actual Flow (Total PCU)

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PROJECT: NORTHAMPTON M1 GATEWAY		
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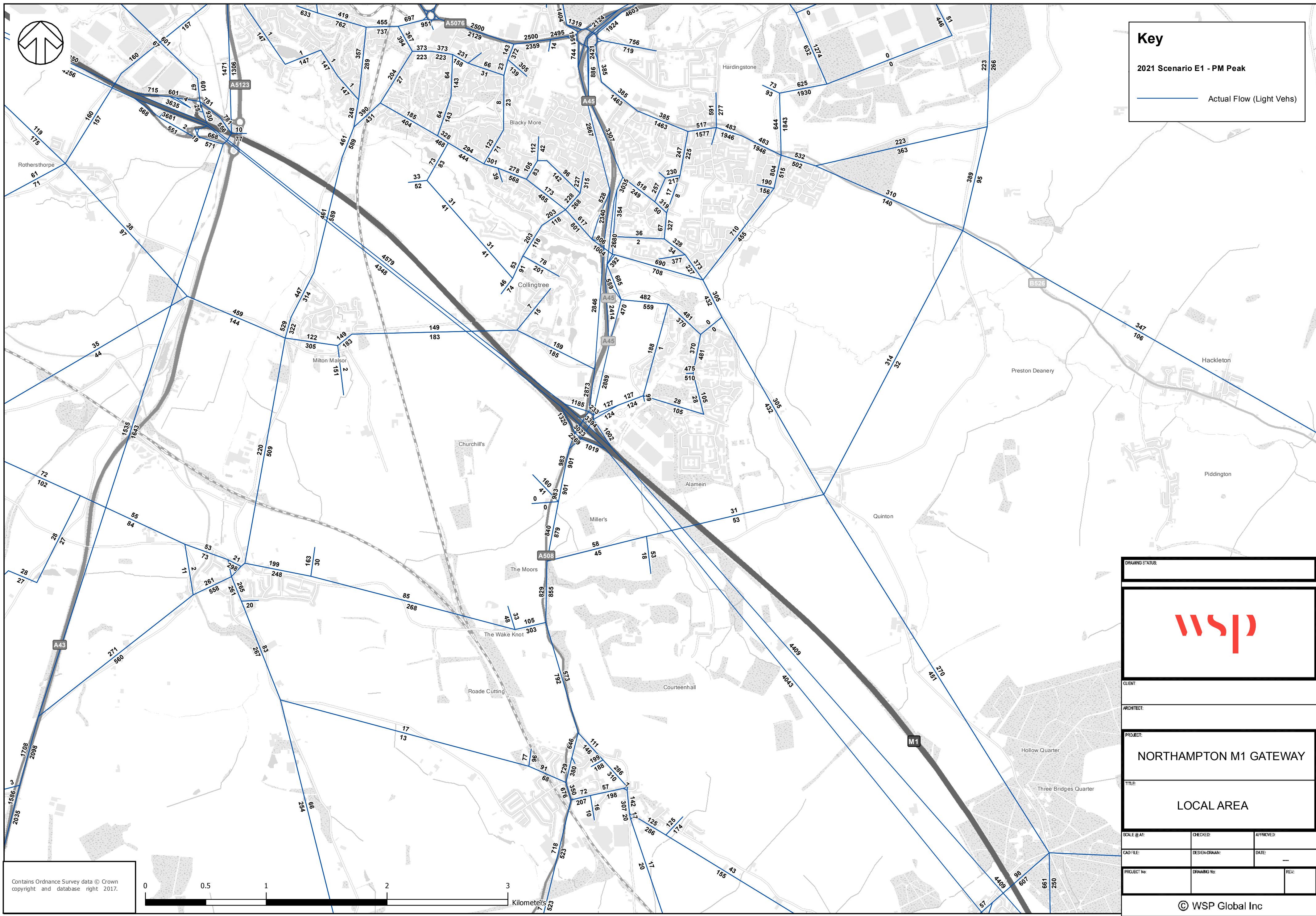
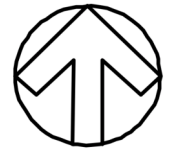
2021 Scenario E1 - PM Peak

— Actual Flow (Total PCU)

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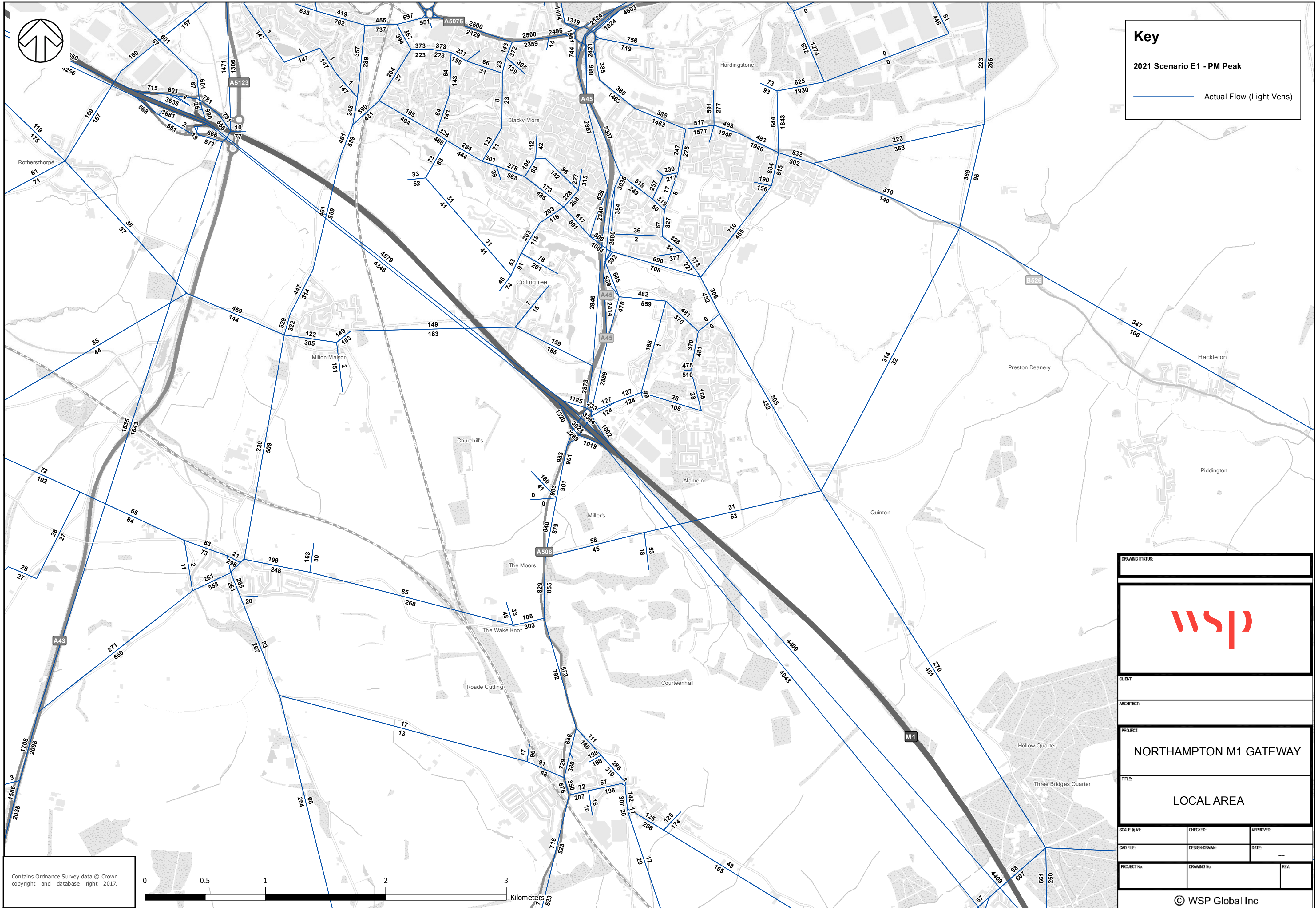
2021 Scenario E1 - PM Peak

— Actual Flow (Light Vechs)

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CLIENT:		
ARCHITECT:		
PROJECT: NORTHAMPTON M1 GATEWAY		
TITLE: LOCAL AREA		
SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
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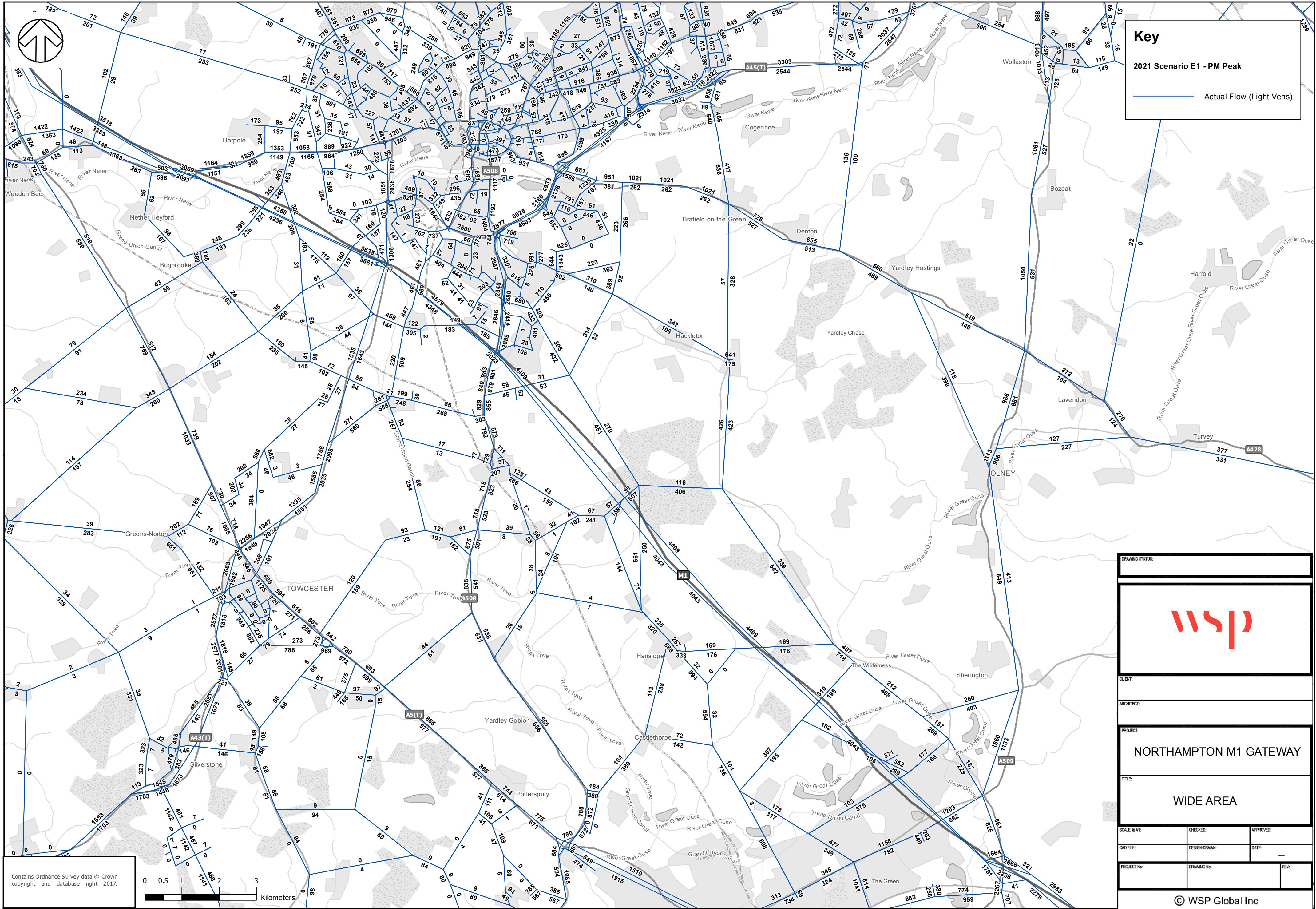
2021 Scenario E1 - PM Peak

— Actual Flow (Light Vechs)

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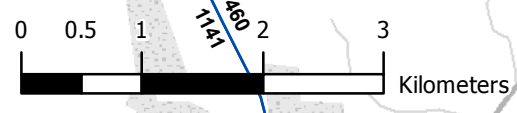


Key


2021 Scenario E1 - PM Peak

Actual Flow (Light Vehs)

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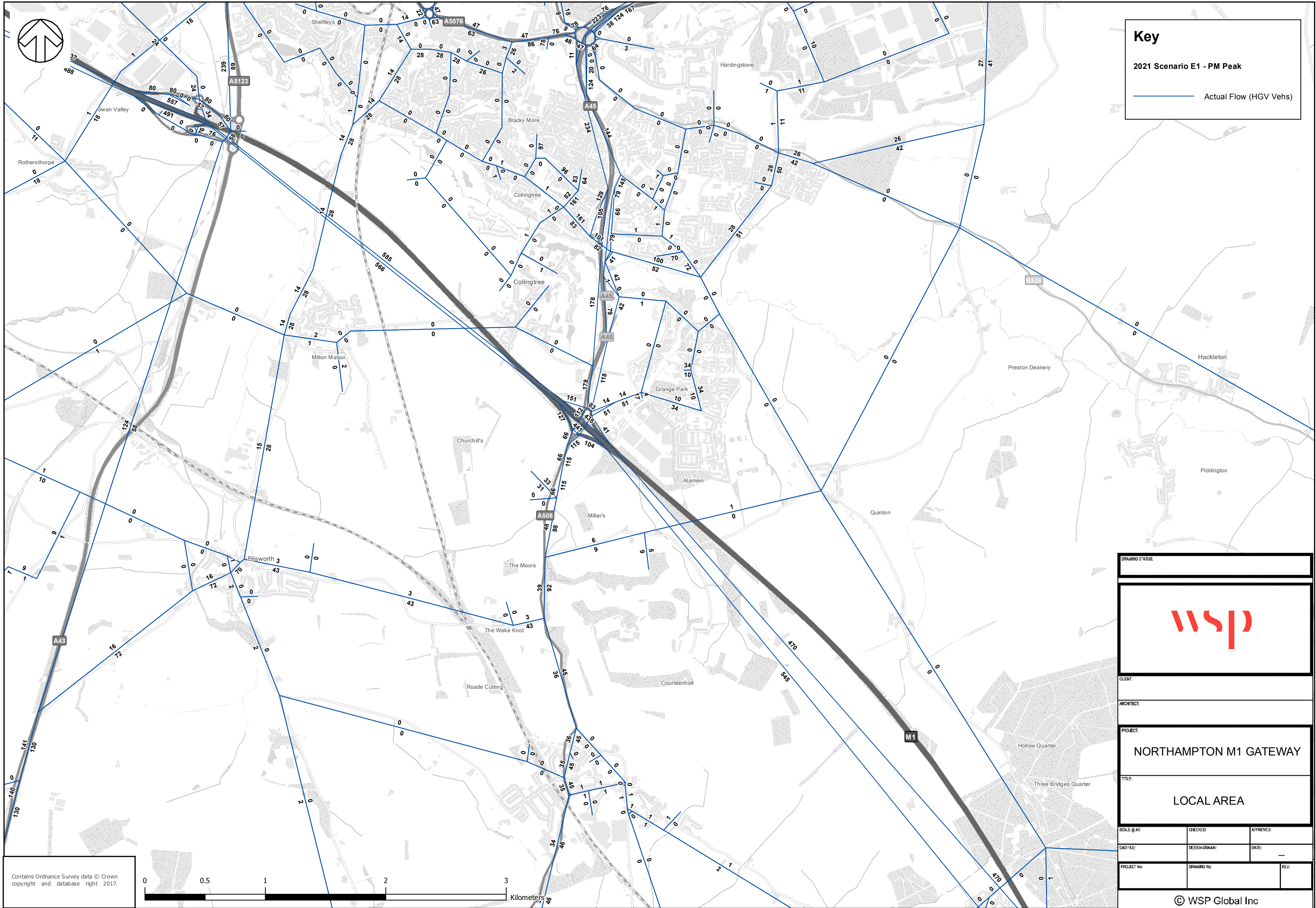
NORTHAMPTON M1 GATEWAY

TITLE:

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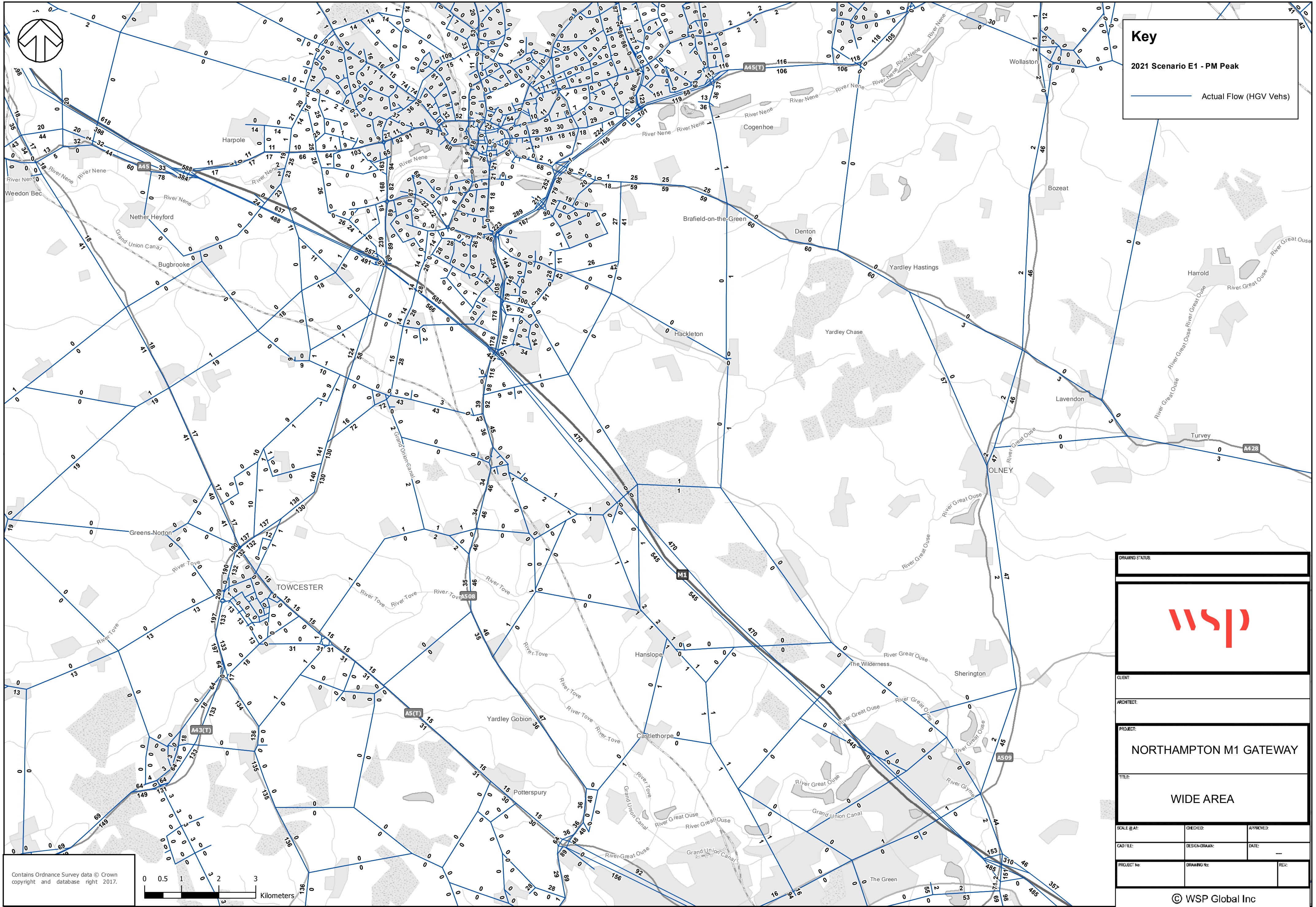
2021 Scenario E1 - PM Peak

— Actual Flow (HGV Vehs)

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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:
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Key

2021 Scenario E1 - PM Peak

— Actual Flow (HGV Vehs)

DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

NORTHAMPTON M1 GATEWAY

TITLE:

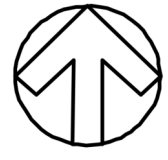
WIDE AREA

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

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2021 DEVELOPMENT CASE
NO HIGHWAY MITIGATION (SCENARIO E1)

NSTM2 Select Link Analysis



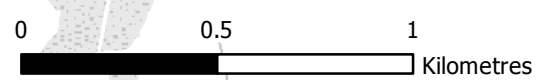
Key

2021 Scenario E1

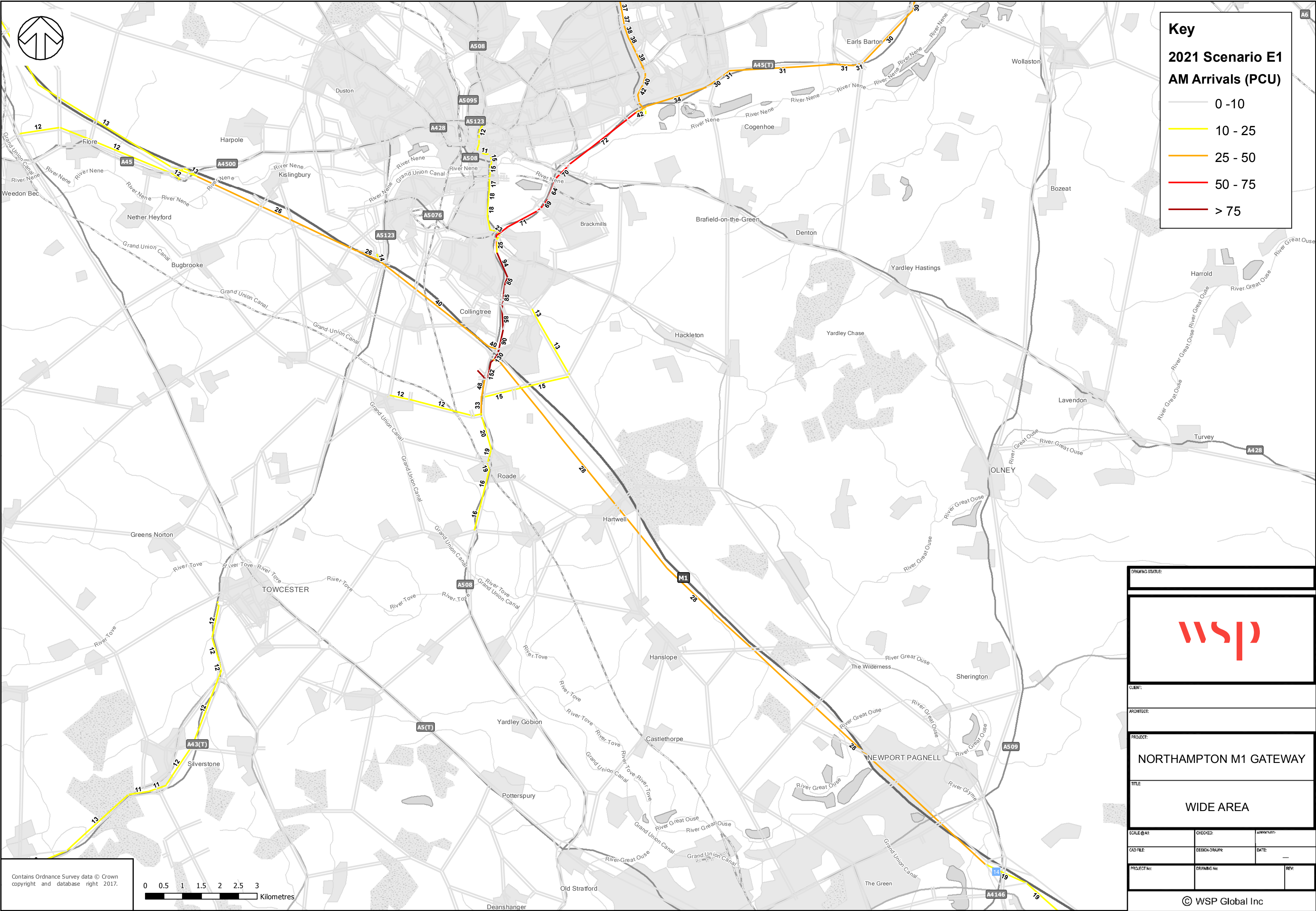
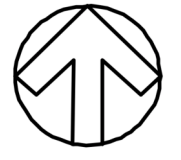
AM Arrivals (PCU)

—	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:
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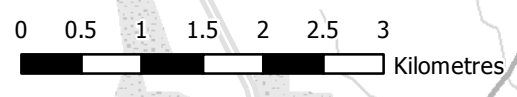
Key

2021 Scenario E1


AM Arrivals (PCU)

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

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

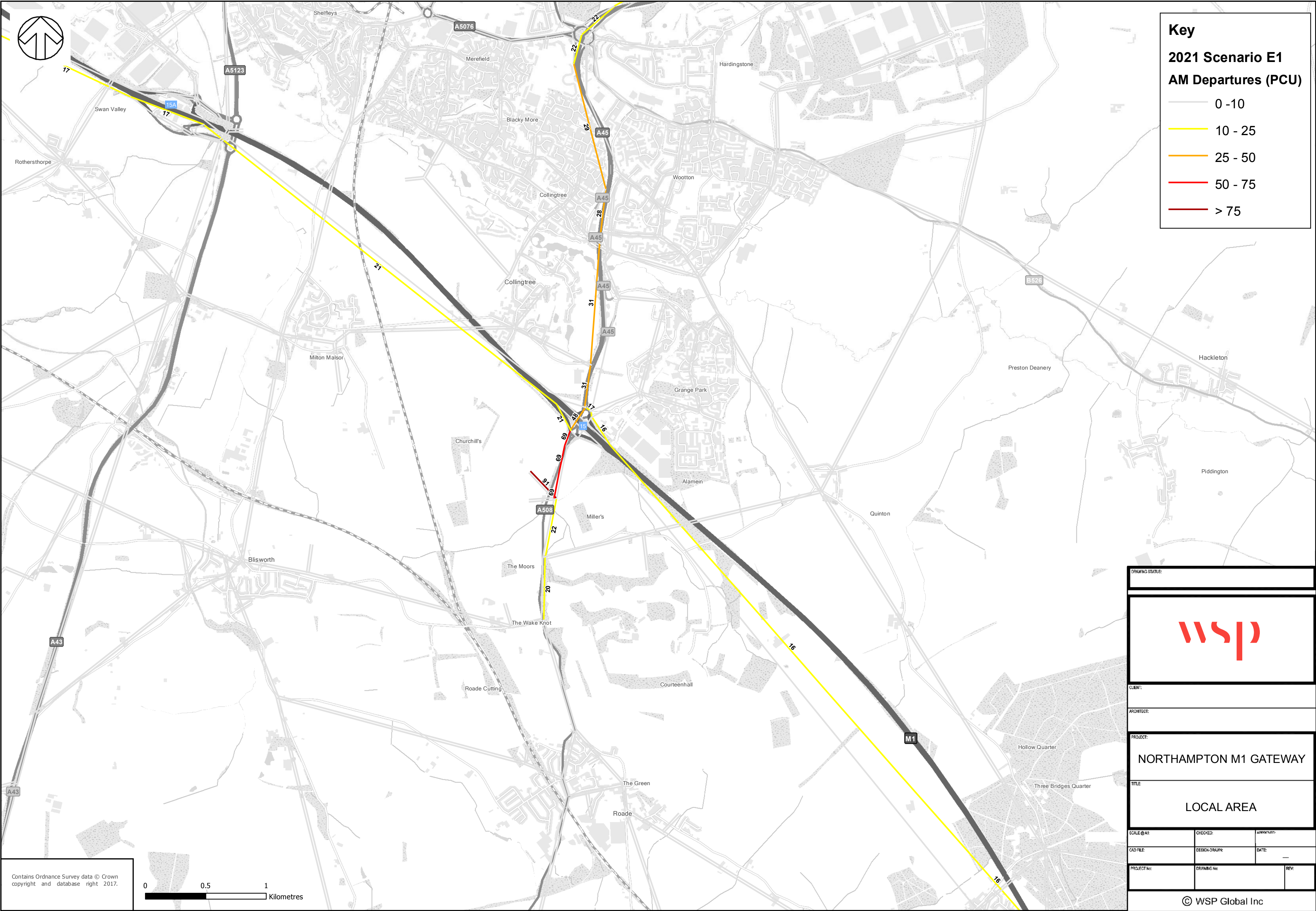
NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

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

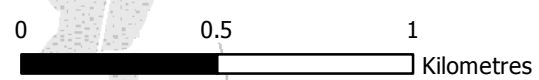
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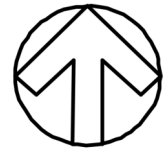
Key
2021 Scenario E1
AM Departures (PCU)

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

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



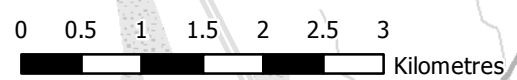
Key

2021 Scenario E1


AM Departures (PCU)

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

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DRAWING STATUS:



CLIENT:

ARCHITECT:

PROJECT:

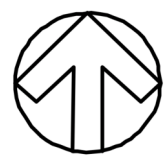
NORTHAMPTON M1 GATEWAY

TITLE:

WIDE AREA

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

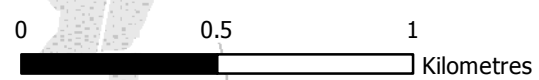
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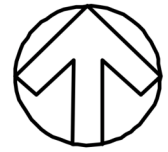
Key
2021 Scenario E1
PM Arrivals (PCU)

- 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:



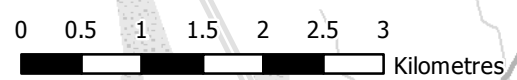
Key

2021 Scenario E1


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:

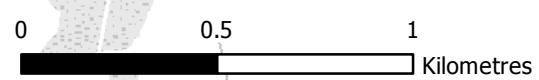
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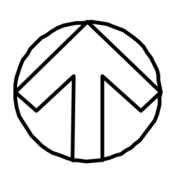
Key
2021 Scenario E1
PM Departures (PCU)

- 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:
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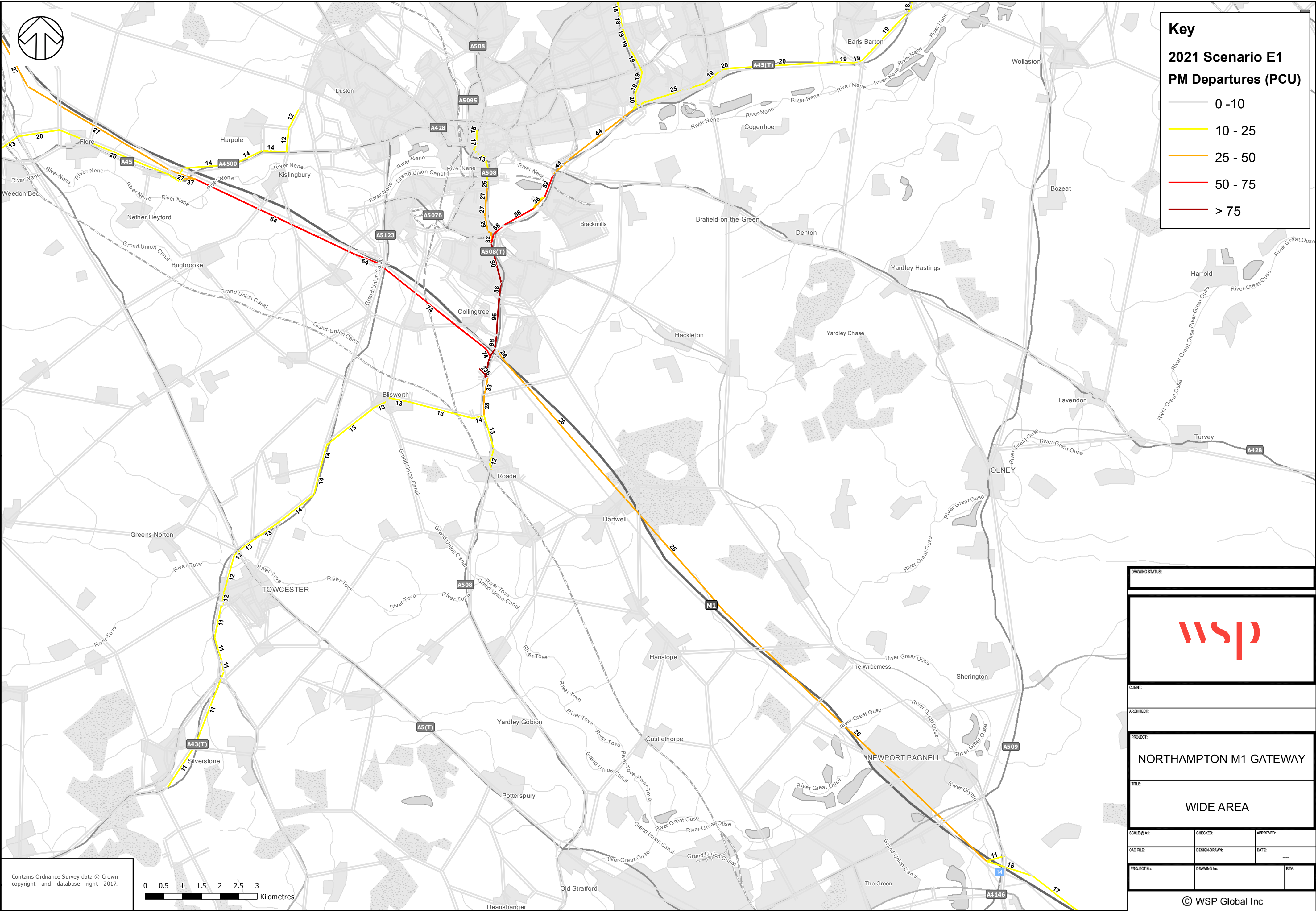


Key

2021 Scenario E1

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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2021 DEVELOPMENT CASE
WITH HIGHWAY MITIGATION (SCENARIO H1)

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	9116	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 H1 AM v7.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	17	35	1039	864	1616		3571
	B	32	0	16	22	51		121
	C	1658	38	0	215	0		1911
	D	493	13	93	13	350		962
	E	1014	91	0	565	2		1672
	F							
	G							
TOTAL	3214	177	1148	1679	2019		8237	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	16	34	811	751	1129		2741
	B	32	0	14	21	51		118
	C	1287	12	0	177	0		1476
	D	436	12	71	0	218		737
	E	791	91	0	450	1		1333
	F							
	G							
TOTAL	2562	149	896	1399	1399		6405	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	1	1	86	66	43		197
	B	0	0	1	0	0		1
	C	93	0	0	21	0		114
	D	25	0	0	0	7		32
	E	52	0	0	12	0		64
	F							
	G							
TOTAL	171	1	87	99	50		408	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	142	47	444		633
	B	0	0	1	1	0		2
	C	278	26	0	17	0		321
	D	32	1	22	13	125		193
	E	171	0	0	103	1		275
	F							
	G							
TOTAL	481	27	165	181	570		1424	

PMNSTM 2 2021 H1 PM v7.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	171	88	956	814	1387		3416
	B	25	0	114	13	88		240
	C	1238	3	0	99	0		1340
	D	758	2	48	12	303		1123
	E	1141	63	0	339	0		1543
	F							
	G							
TOTAL	3333	156	1118	1277	1778		7662	

By Vehicle Type:

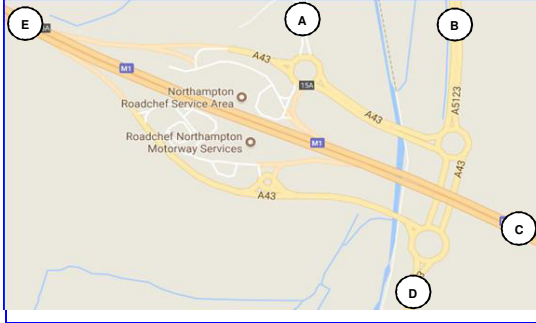
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	167	85	830	653	1233		2968
	B	24	0	73	13	12		122
	C	963	3	0	81	0		1047
	D	696	2	26	0	194		918
	E	906	31	0	175	0		1112
	F							
	G							
TOTAL	2756	121	929	922	1439		6167	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	4	2	39	12	29		86
	B	1	0	0	0	1		2
	C	51	0	0	2	0		53
	D	28	0	5	0	3		36
	E	69	1	0	16	0		86
	F							
	G							
TOTAL	153	3	44	30	33		263	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	1	87	149	125		362
	B	0	0	41	0	75		116
	C	224	0	0	16	0		240
	D	34	0	17	12	106		169
	E	166	31	0	148	0		345
	F							
	G							
TOTAL	424	32	145	325	306		1232	

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_H1_AM_v7.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	769	16	0		785
	B	0	0	236	1005	420		1661
	C	25	275	0	451	0		751
	D	155	1159	175	0	357		1846
	E	0	388	0	552	0		940
	F							
	G							
TOTAL	180	1821	1181	2023	777		5983	

By Vehicle Type:

MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	607	15	0		623
	B	0	0	225	690	302		1218
	C	22	215	0	430	0		667
	D	138	801	164	0	341		1445
	E	0	372	0	295	0		666
	F							
	G							
TOTAL	161	1387	997	1430	643		4619	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	48	0	0		48
	B	0	0	6	68	8		83
	C	2	30	0	18	0		50
	D	3	49	11	0	8		70
	E	0	7	0	36	0		43
	F							
	G							
TOTAL	4	86	65	122	16		294	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	113	0	0		113
	B	0	0	5	246	110		361
	C	1	30	0	3	0		34
	D	14	309	0	0	8		332
	E	0	9	0	222	0		231
	F							
	G							
TOTAL	15	348	118	471	118		1070	

PMNSTM_2_2021_H1_PM_v7.DAT

MODELLED								
PCU	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	491	106	0		597
	B	0	0	325	1060	181		1566
	C	53	473	0	301	0		827
	D	57	1164	328	0	317		1866
	E	3	430	0	407	0		840
	F							
	G							
TOTAL	113	2067	1144	1875	498		5697	

By Vehicle Type:

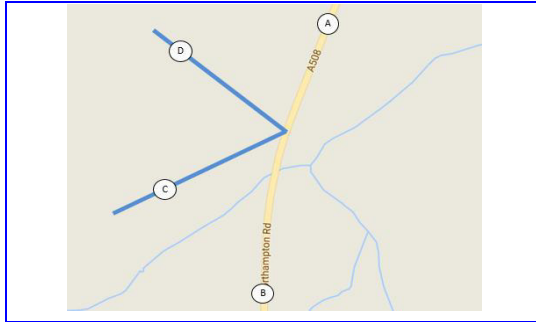
MODELLED								
Car	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	453	105	0		558
	B	0	0	274	869	163		1306
	C	7	375	0	284	0		665
	D	54	826	317	0	294		1491
	E	3	253	0	392	0		647
	F							
	G							
TOTAL	63	1454	1044	1650	457		4668	

MODELLED								
LGV	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	34	1	0		36
	B	0	0	6	46	4		57
	C	0	13	0	4	0		18
	D	3	66	11	0	23		103
	E	0	13	0	14	0		28
	F							
	G							
TOTAL	4	92	51	66	27		240	

MODELLED								
HGV (PCU)	To Arm							TOTAL
	A	B	C	D	E	F	G	
From Arm	A	0	0	4	0	0		4
	B	0	0	46	144	13		203
	C	46	85	0	13	0		144
	D	0	273	0	0	0		273
	E	0	164	0	1	0		165
	F							
	G							
TOTAL	46	522	49	159	14		789	

Junction Turning Flows

Junction: Site Access (new junction)



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	83013	83000	83000	83013	A508 (SB)
B	21152	83000	83000	21152	A508 (NB)
C	83003	83000	83000	83003	Site Access
D	83002	83000	83000	83002	Site Access
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM_2_2021_H1_AM_v7.DAT

		MODELLED							
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	TOTAL
		A	0	1461	0	170			
	B	872	0	0	31				903
	C	0	0	0	0				0
	D	89	1	0	0				91
	E								
	F								
	G								
	TOTAL	962	1463	0	201				2626

By Vehicle Type:

		MODELLED							
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	TOTAL
		A	0	1274	0	107			
	B	720	0	0	13				733
	C	0	0	0	0				0
	D	13	1	0	0				15
	E								
	F								
	G								
	TOTAL	734	1275	0	120				2128

		MODELLED							
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	TOTAL
		A	0	78	0	7			
	B	32	0	0	1				33
	C	0	0	0	0				0
	D	0	0	0	0				0
	E								
	F								
	G								
	TOTAL	32	78	0	7				118

		MODELLED							
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	TOTAL
		A	0	109	0	56			
	B	120	0	0	18				137
	C	0	0	0	0				0
	D	76	0	0	0				76
	E								
	F								
	G								
	TOTAL	196	109	0	74				379

PMNSTM_2_2021_H1_PM_v7.DAT

		MODELLED							
		To Arm							
From Arm	PCU	A	B	C	D	E	F	G	TOTAL
		A	0	1132	0	93			
	B	902	0	0	21				923
	C	0	0	0	0				0
	D	222	14	0	0				236
	E								
	F								
	G								
	TOTAL	1124	1146	0	114				2384

By Vehicle Type:

		MODELLED							
		To Arm							
From Arm	Car	A	B	C	D	E	F	G	TOTAL
		A	0	821	0	35			
	B	774	0	0	4				779
	C	0	0	0	0				0
	D	143	13	0	0				156
	E								
	F								
	G								
	TOTAL	917	834	0	39				1791

		MODELLED							
		To Arm							
From Arm	LGV	A	B	C	D	E	F	G	TOTAL
		A	0	24	0	2			
	B	33	0	0	0				33
	C	0	0	0	0				0
	D	3	0	0	0				4
	E								
	F								
	G								
	TOTAL	36	25	0	2				63

		MODELLED							
		To Arm							
From Arm	HGV (PCU)	A	B	C	D	E	F	G	TOTAL
		A	0	287	0	57			
	B	95	0	0	16				111
	C	0	0	0	0				0
	D	76	0	0	0				76
	E								
	F								
	G								
	TOTAL	171	287	0	73				531

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

AMNSTM2_2031_H1_AM_v7.DAT

MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	2943	0	359				3302
	C	332	0	0				332
	D							
	E							
	F							
	G							
	TOTAL	3275	0	359				3634

By Vehicle Type:

MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	2340	0	320				2660
	C	305	0	0				305
	D							
	E							
	F							
	G							
	TOTAL	2645	0	320				3285

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	136	0	39				175
	C	27	0	0				27
	D							
	E							
	F							
	G							
	TOTAL	163	0	39				262

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	467	0	0				467
	C	0	0	0				0
	D							
	E							
	F							
	G							
	TOTAL	467	0	0				547

PMNSTM2_2031_H1_PM_v7.DAT

MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	3251	0	306				3557
	C	121	0	0				121
	D							
	E							
	F							
	G							
	TOTAL	3372	0	306				3678

By Vehicle Type:

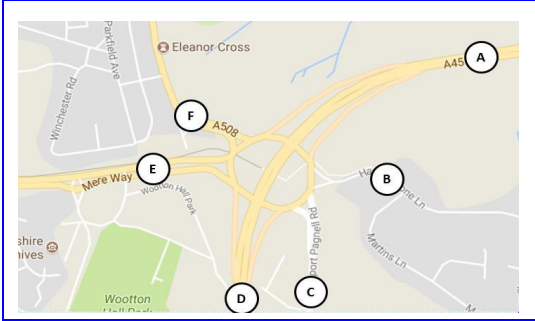
MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	2674	0	302				2976
	C	101	0	0				101
	D							
	E							
	F							
	G							
	TOTAL	2775	0	302				3542

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	155	0	4				159
	C	20	0	0				20
	D							
	E							
	F							
	G							
	TOTAL	175	0	4				210

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	0				0
	B	422	0	0				422
	C	0	0	0				0
	D							
	E							
	F							
	G							
	TOTAL	422	0	0				523

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 H1 AM v7.DAT

MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	7	81	113	0	1251	422		1874
	B	231	0	0	16	89	167		503
	C	295	0	0	0	307	464		1066
	D	0	0	0	0	62	716		778
	E	1886	19	354	233	0	3		2495
	F	404	8	238	459	12	0		1121
	G								
	TOTAL	2823	108	705	708	1721	1772		7837

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	6	77	110	0	986	349		1528
	B	228	0	0	16	88	165		497
	C	293	0	0	0	304	457		1054
	D	0	0	0	0	59	389		448
	E	1467	17	340	222	0	3		2049
	F	390	7	222	345	11	0		975
	G								
	TOTAL	2384	101	672	583	1448	1363		6551

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	1	4	3	0	57	33		98
	B	3	0	0	0	1	2		6
	C	2	0	0	0	2	6		10
	D	0	0	0	0	3	41		44
	E	32	2	4	10	0	0		48
	F	9	1	5	52	1	0		68
	G								
	TOTAL	47	7	12	62	64	82		274

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	0	0	208	40		248
	B	0	0	0	0	0	0		0
	C	0	0	0	0	1	1		2
	D	0	0	0	0	0	286		286
	E	387	0	10	1	0	0		398
	F	5	0	11	62	0	0		78
	G								
	TOTAL	392	0	21	63	209	327		1012

PMNSTM 2 2021 H1 PM v7.DAT

MODELLED									
PCU	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	486	68	0	1203	256		2013
	B	474	0	0	28	32	169		703
	C	168	0	0	2	808	449		1427
	D	0	22	6	0	133	611		772
	E	1825	87	380	399	0	5		2696
	F	601	84	174	461	46	0		1366
	G								
	TOTAL	3068	679	628	890	2222	1490		8977

By Vehicle Type:

MODELLED									
Car	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	483	68	0	1115	231		1897
	B	453	0	0	28	31	166		678
	C	167	0	0	2	791	431		1391
	D	0	22	6	0	122	580		730
	E	1611	85	377	386	0	5		2464
	F	580	81	161	399	44	0		1265
	G								
	TOTAL	2811	671	612	815	2103	1413		8425

MODELLED									
LGV	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	3	0	0	54	25		82
	B	15	0	0	0	1	3		19
	C	1	0	0	0	17	18		36
	D	0	0	0	0	2	13		15
	E	51	2	3	1	0	0		57
	F	21	3	6	4	2	0		36
	G								
	TOTAL	88	8	9	5	76	59		245

MODELLED									
HGV (PCU)	To Arm								
	A	B	C	D	E	F	G	TOTAL	
From Arm	A	0	0	0	0	34	0		34
	B	6	0	0	0	0	0		6
	C	0	0	0	0	0	0		0
	D	0	0	0	0	9	18		27
	E	163	0	0	12	0	0		175
	F	0	0	7	58	0	0		65
	G								
	TOTAL	169	0	7	70	43	18		307

Junction Turning Flows

Junction: **A508/High St mini-roundabout**



Arm Description

Arm	Inbound		Outbound		Description
	A-Node	B-Node	A-Node	B-Node	
A	81041	21313	21313	81041	A508 North
B	90009	21313	21313	90009	High Street
C	70611	21313	21313	70611	A508 South
D					
E					
F					
G					

Growth Factors

Vehicle	Growth
Car	1
LGV	1
HGV	1

AMNSTM 2 2021 H1 AM v7.DAT

MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	64	809				873
	B	59	0	78				138
	C	674	8	0				681
	D							
	E							
	F							
	G							
	TOTAL	733	72	887				

By Vehicle Type:

MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	61	698				760
	B	53	0	78				131
	C	527	1	0				529
	D							
	E							
	F							
	G							
	TOTAL	580	63	777				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	0	12				12
	B	2	0	0				2
	C	28	0	0				28
	D							
	E							
	F							
	G							
	TOTAL	29	0	12				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	3	98				101
	B	5	0	0				5
	C	119	6	0				125
	D							
	E							
	F							
	G							
	TOTAL	123	9	98				

PMNSTM 2 2021 H1 PM v7.DAT

MODELLED								
PCU	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	18	448				466
	B	18	0	190				208
	C	735	49	0				784
	D							
	E							
	F							
	G							
	TOTAL	753	66	639				

By Vehicle Type:

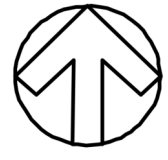
MODELLED								
Car	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	15	347				362
	B	15	0	190				205
	C	634	49	0				683
	D							
	E							
	F							
	G							
	TOTAL	649	63	537				

MODELLED								
LGV	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	1	1				2
	B	1	0	0				1
	C	21	0	0				22
	D							
	E							
	F							
	G							
	TOTAL	22	1	1				

MODELLED								
HGV (PCU)	To Arm							
	A	B	C	D	E	F	G	TOTAL
From Arm	A	0	2	100				102
	B	2	0	0				2
	C	79	0	0				79
	D							
	E							
	F							
	G							
	TOTAL	81	2	100				

2021 DEVELOPMENT CASE
WITH HIGHWAY MITIGATION (SCENARIO H1)

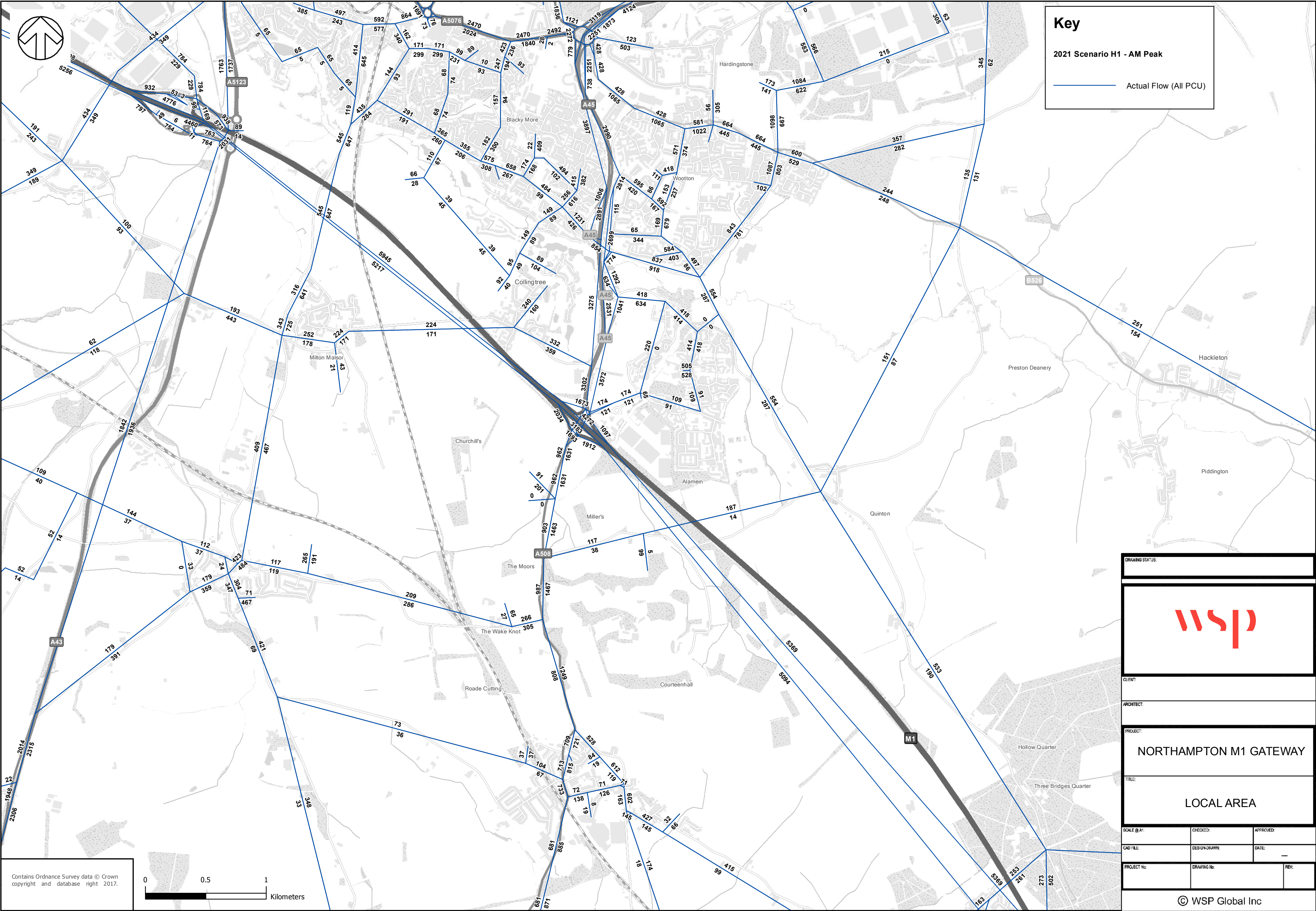
NSTM2 Actual Flow Plots (link flows)



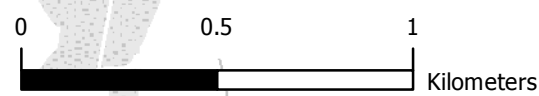
Key

2021 Scenario H1 - AM Peak

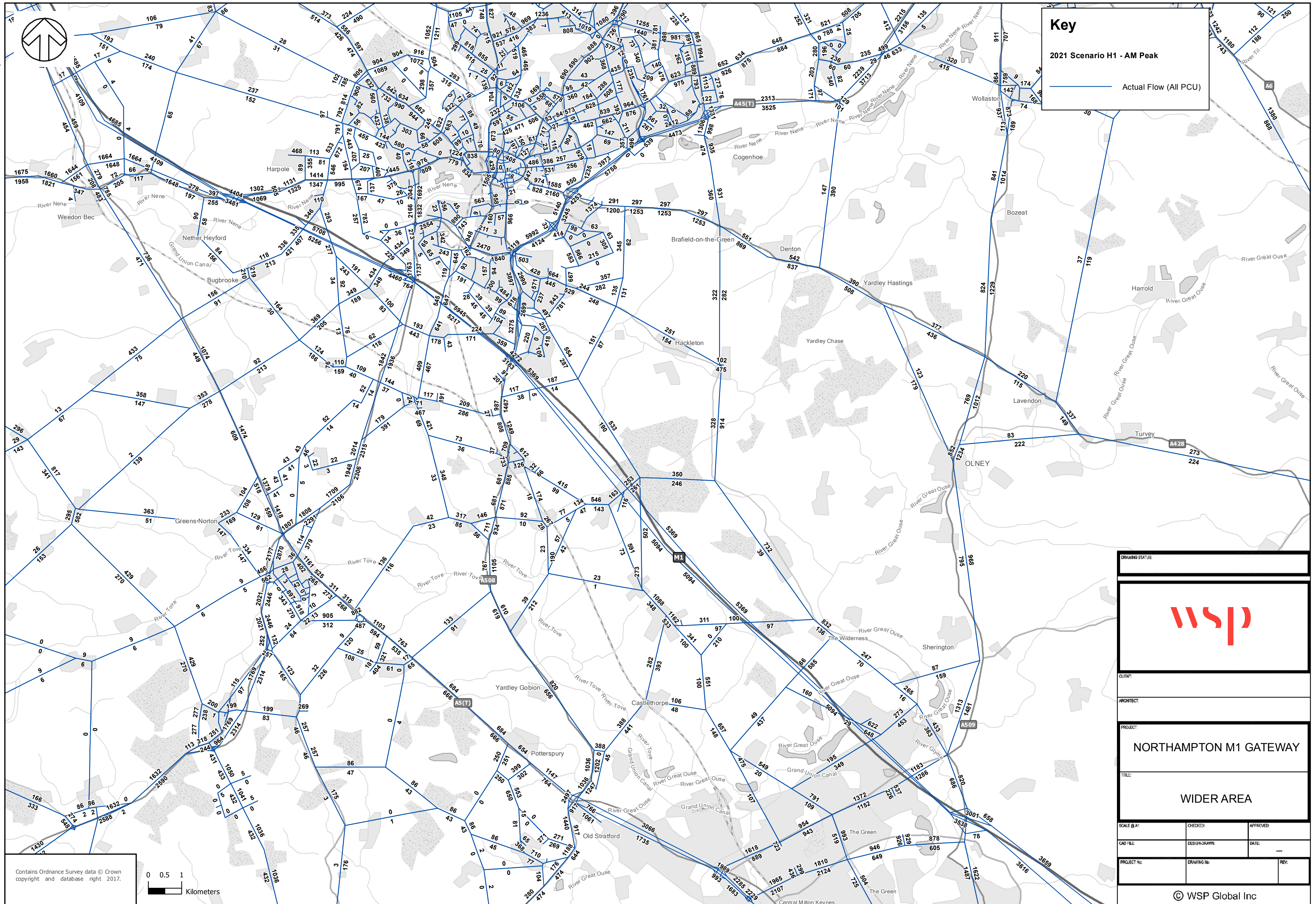
Actual Flow (All PCU)



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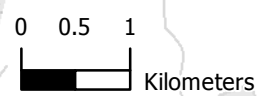


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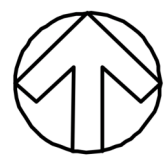
2021 Scenario H1 - AM Peak

— Actual Flow (All PCU)

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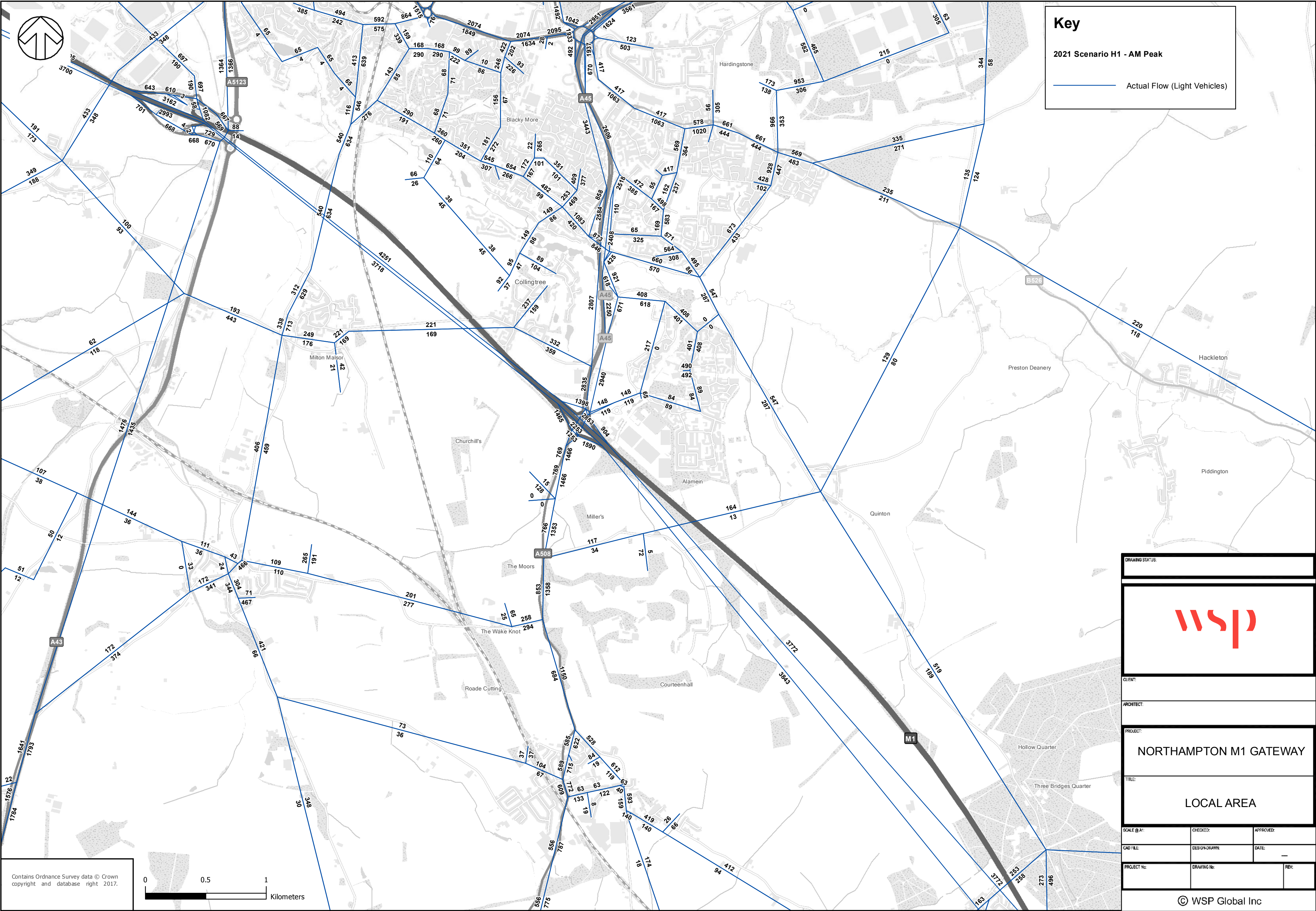
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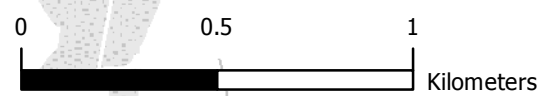
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2021 Scenario H1 - AM Peak

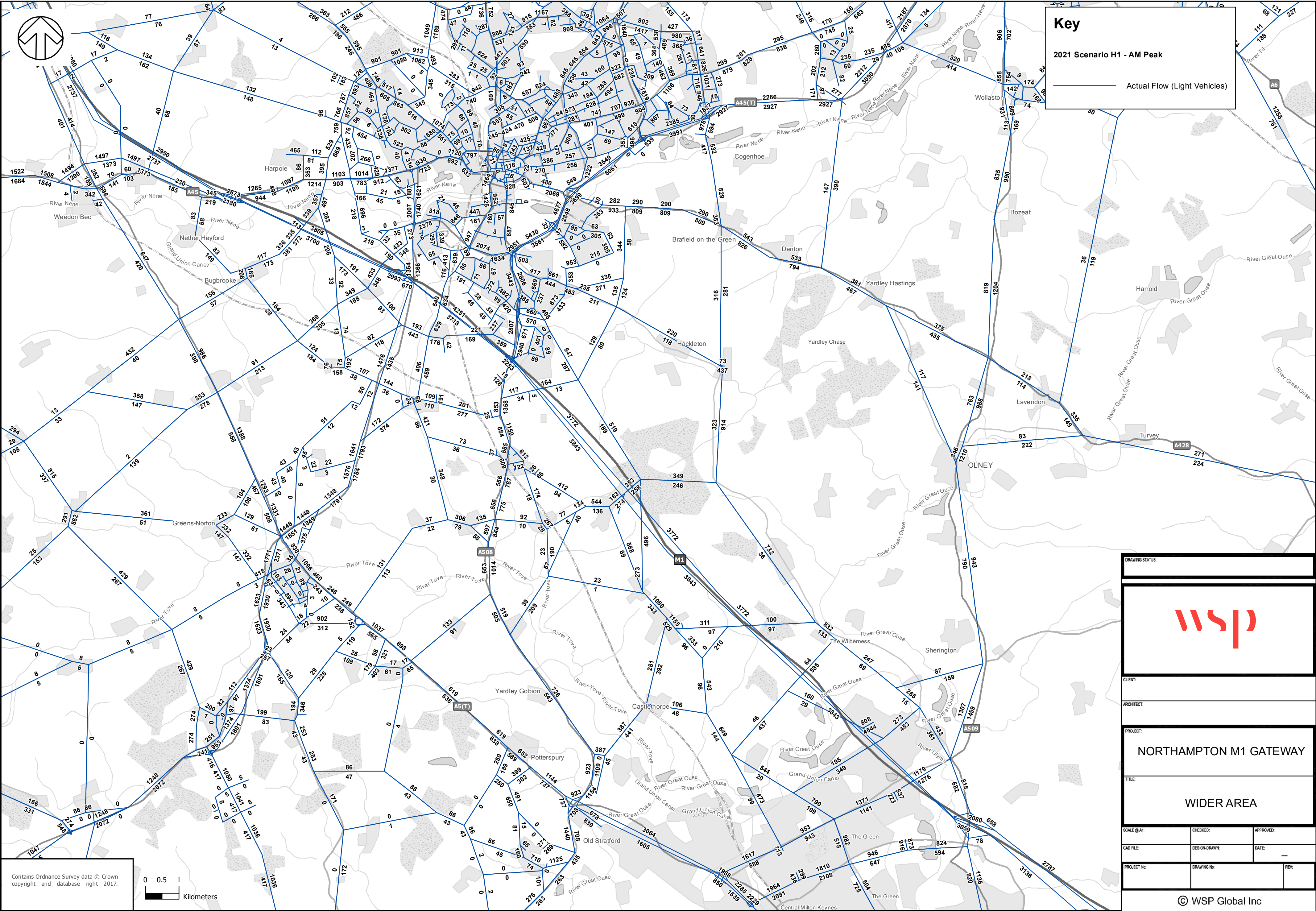
— Actual Flow (Light Vehicles)



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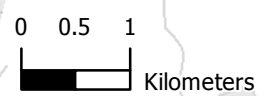


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2021 Scenario H1 - AM Peak

— Actual Flow (Light Vehicles)

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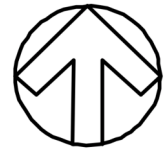
NORTHAMPTON M1 GATEWAY

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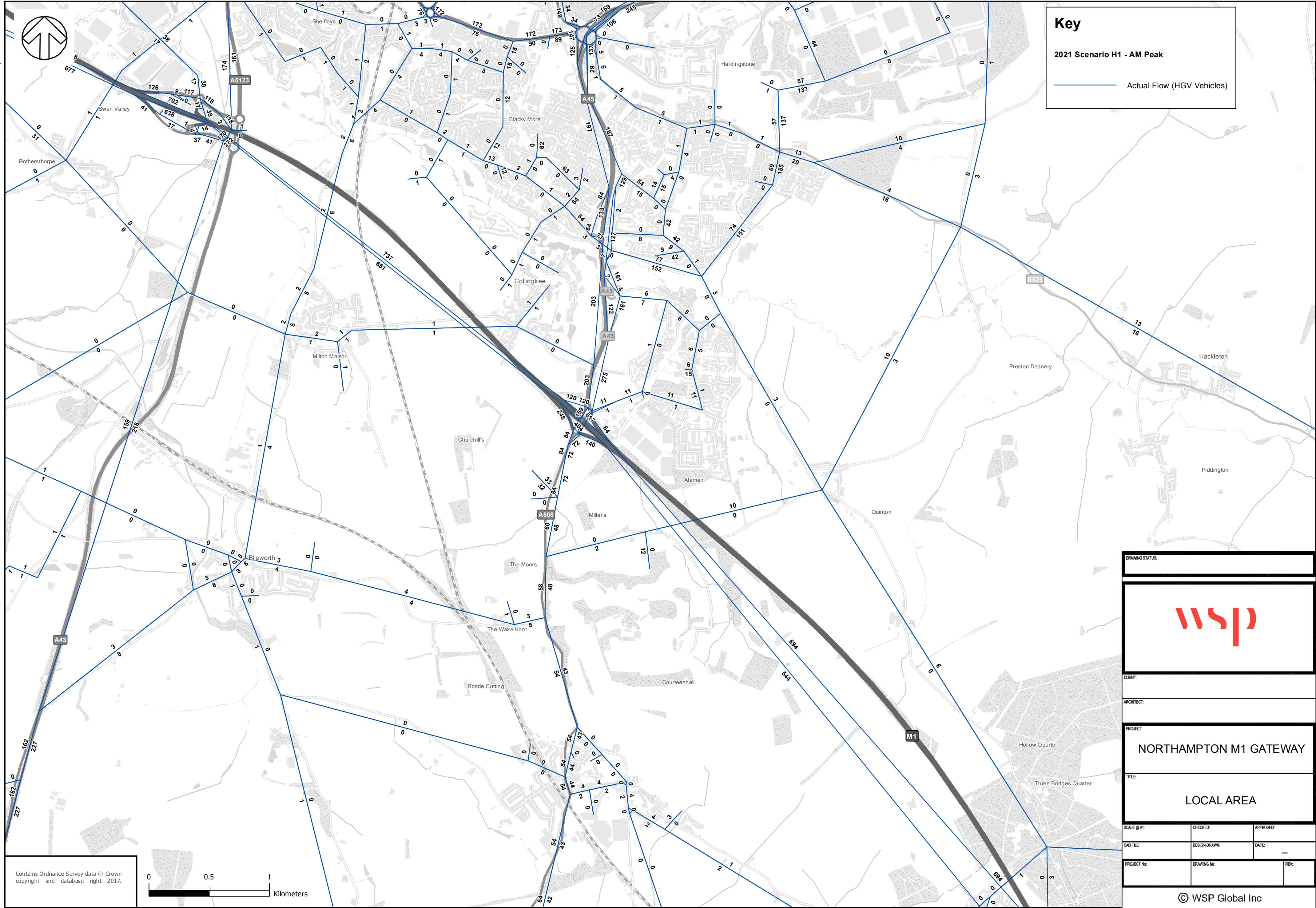
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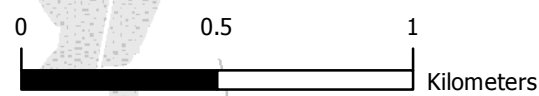
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2021 Scenario H1 - AM Peak

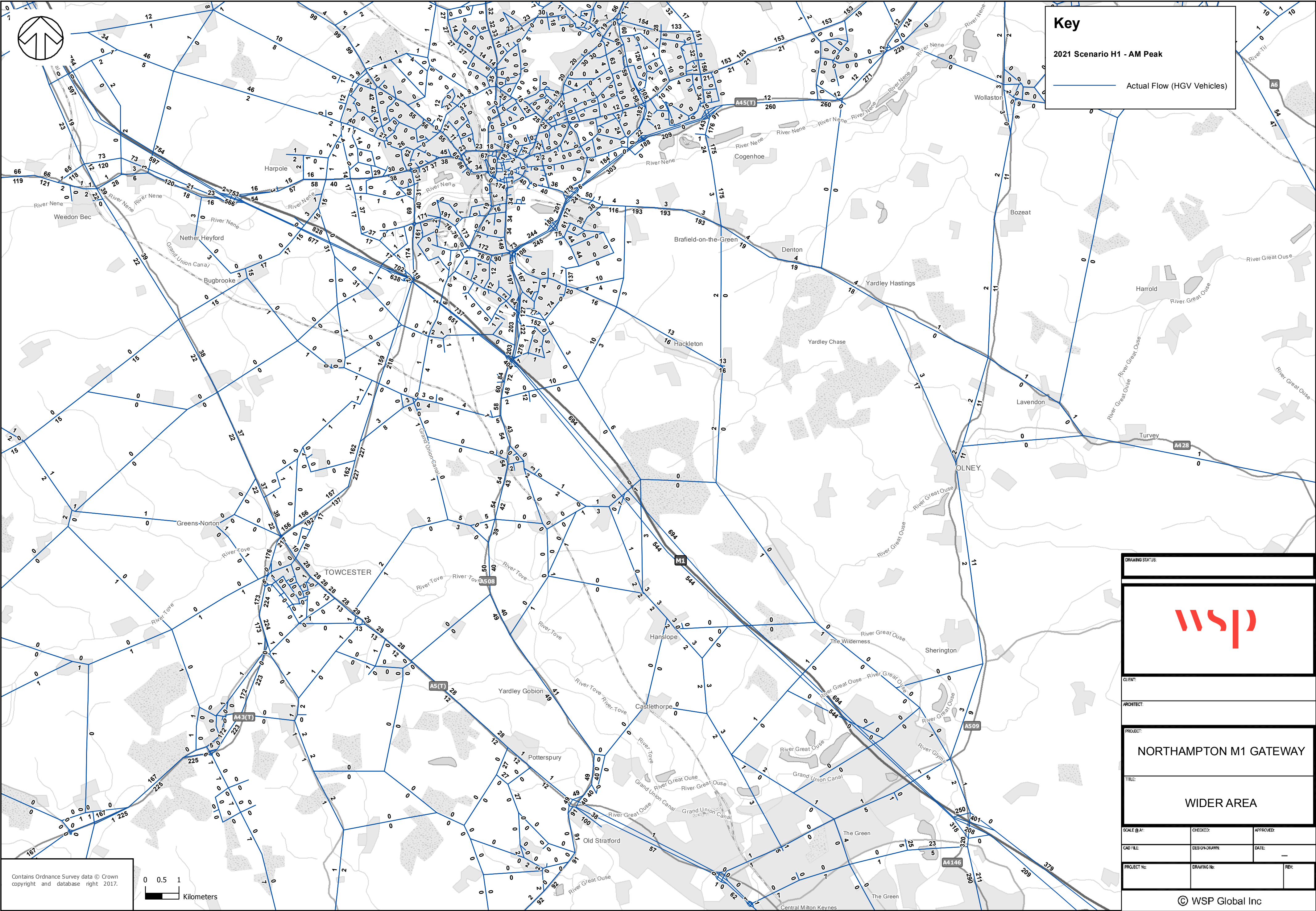
— Actual Flow (HGV Vehicles)



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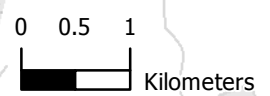


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2021 Scenario H1 - AM Peak

— Actual Flow (HGV Vehicles)

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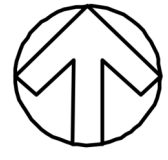
NORTHAMPTON M1 GATEWAY

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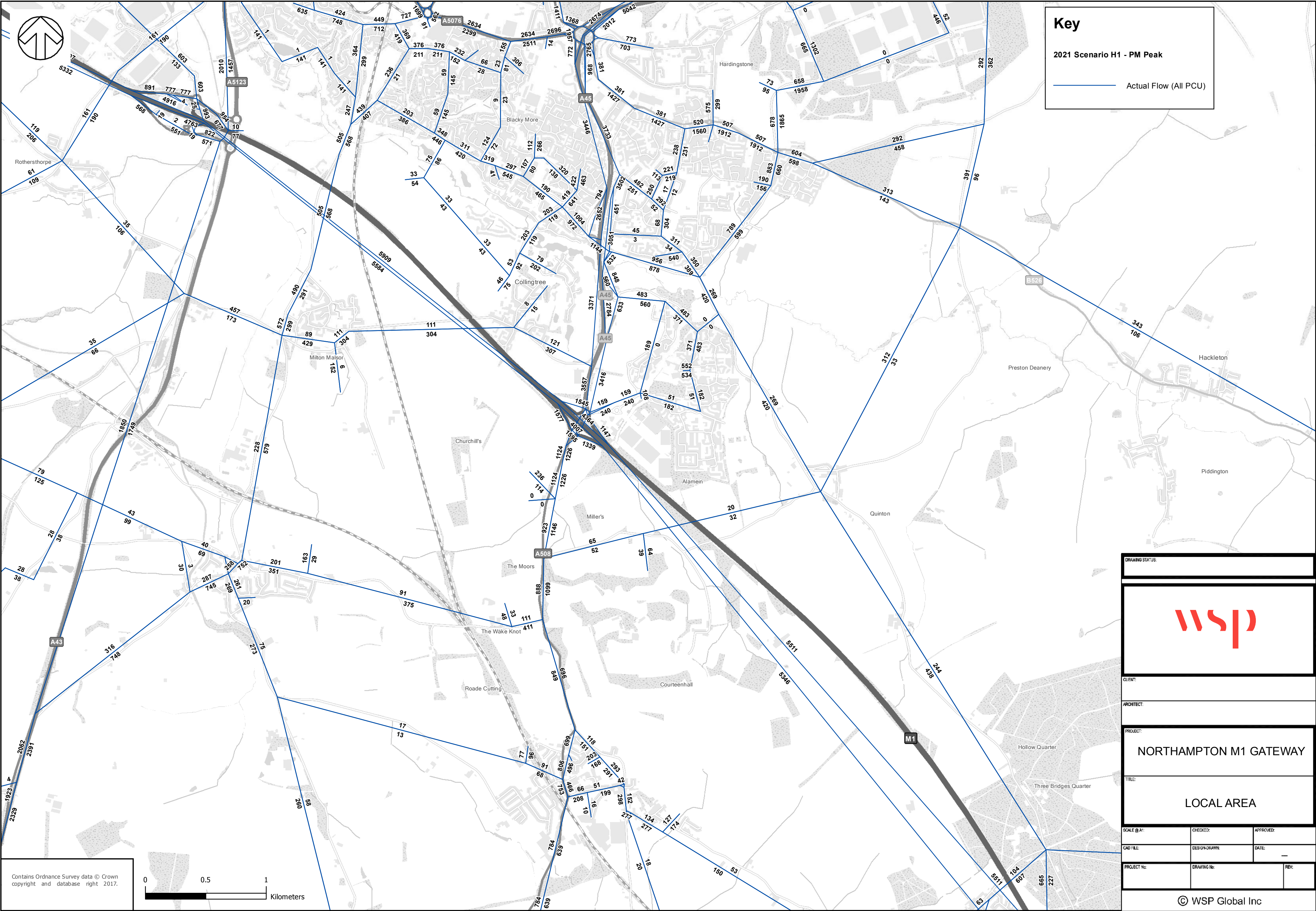
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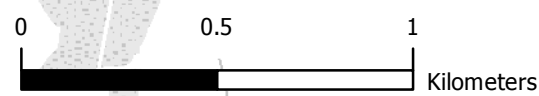
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2021 Scenario H1 - PM Peak

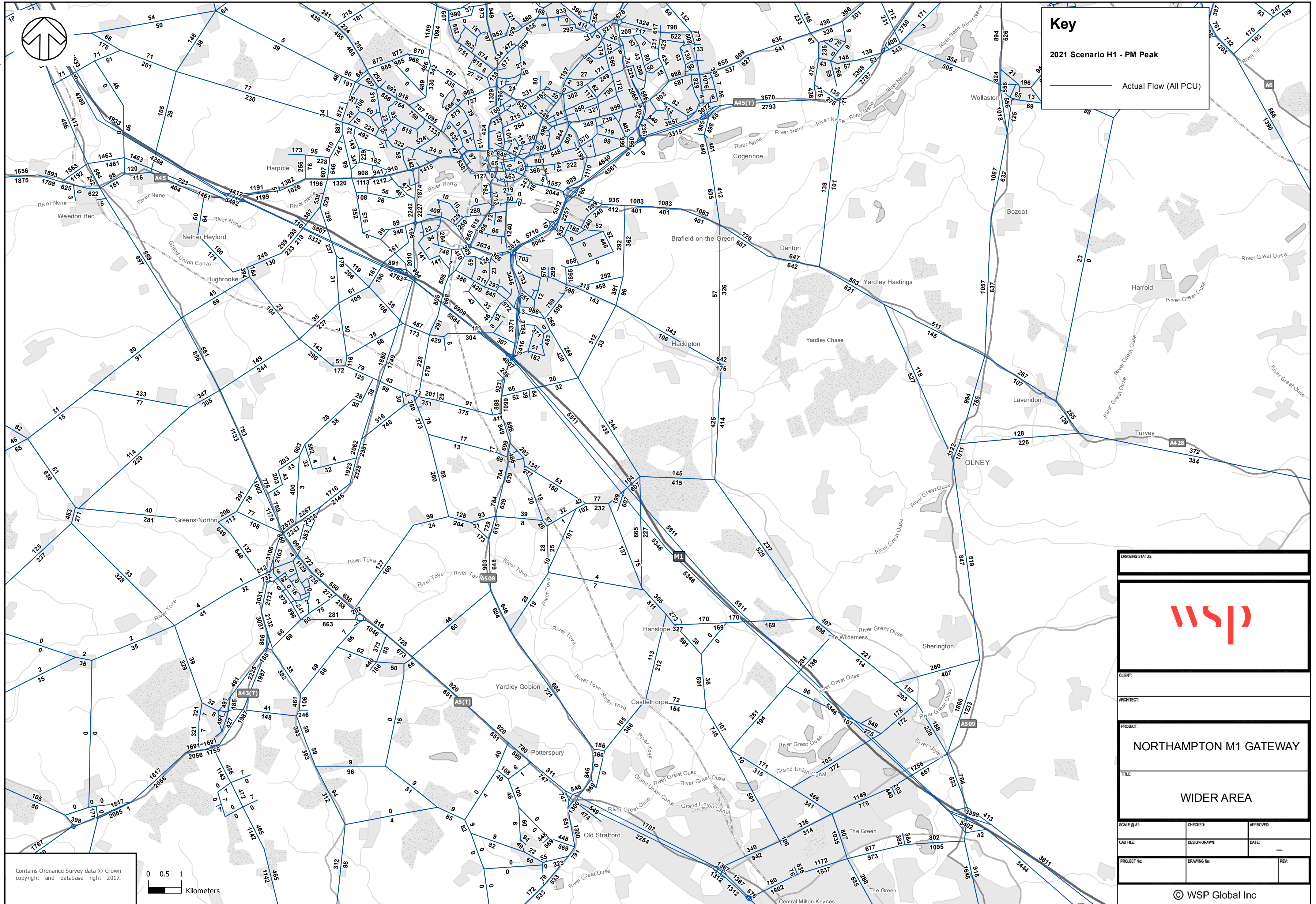
— Actual Flow (All PCU)



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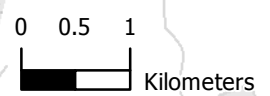


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2021 Scenario H1 - PM Peak

— Actual Flow (All PCU)

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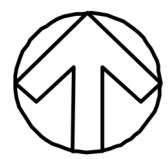
NORTHAMPTON M1 GATEWAY

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WIDER AREA

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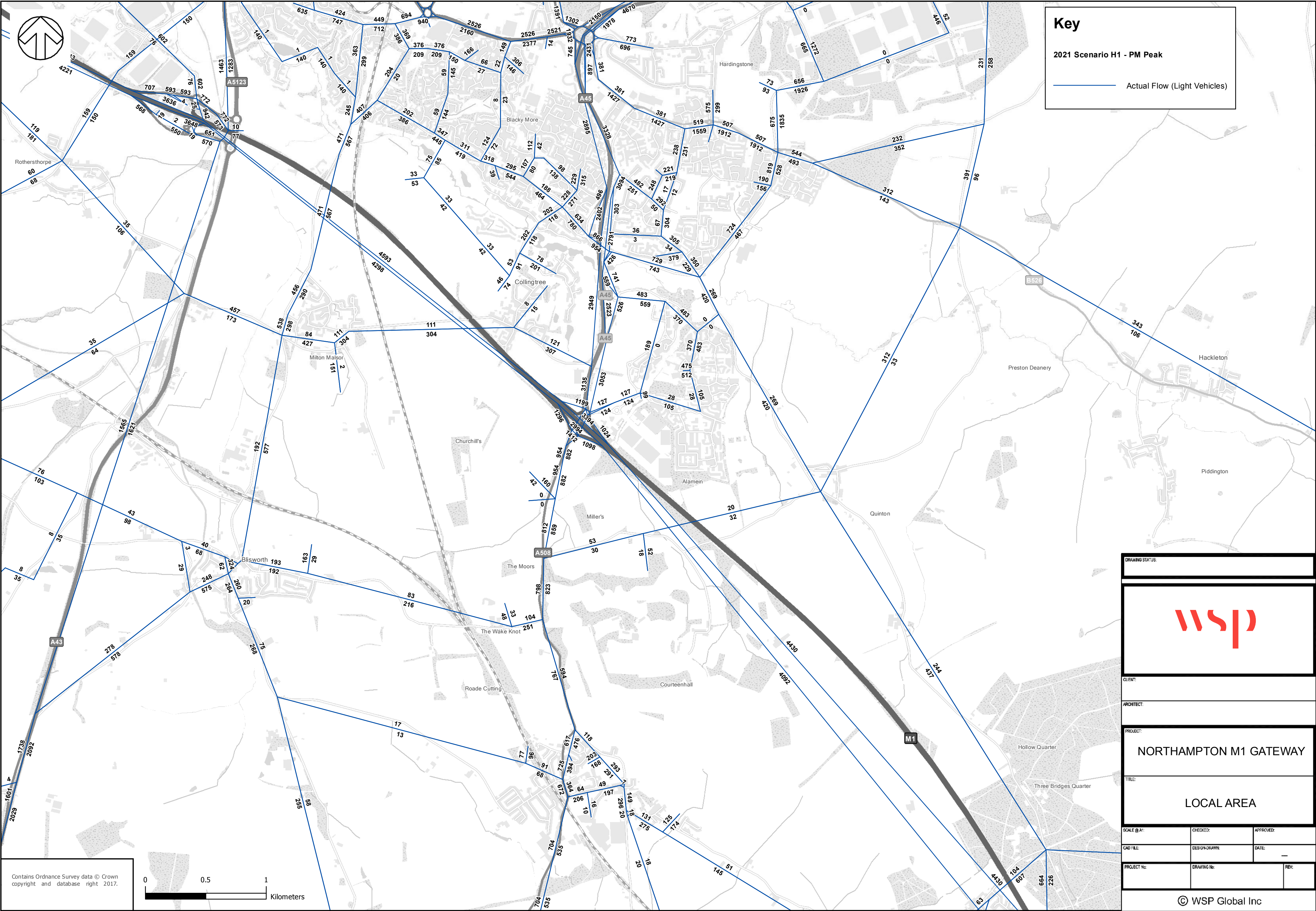
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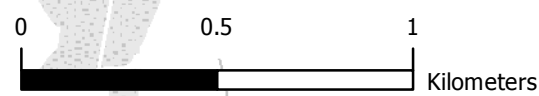
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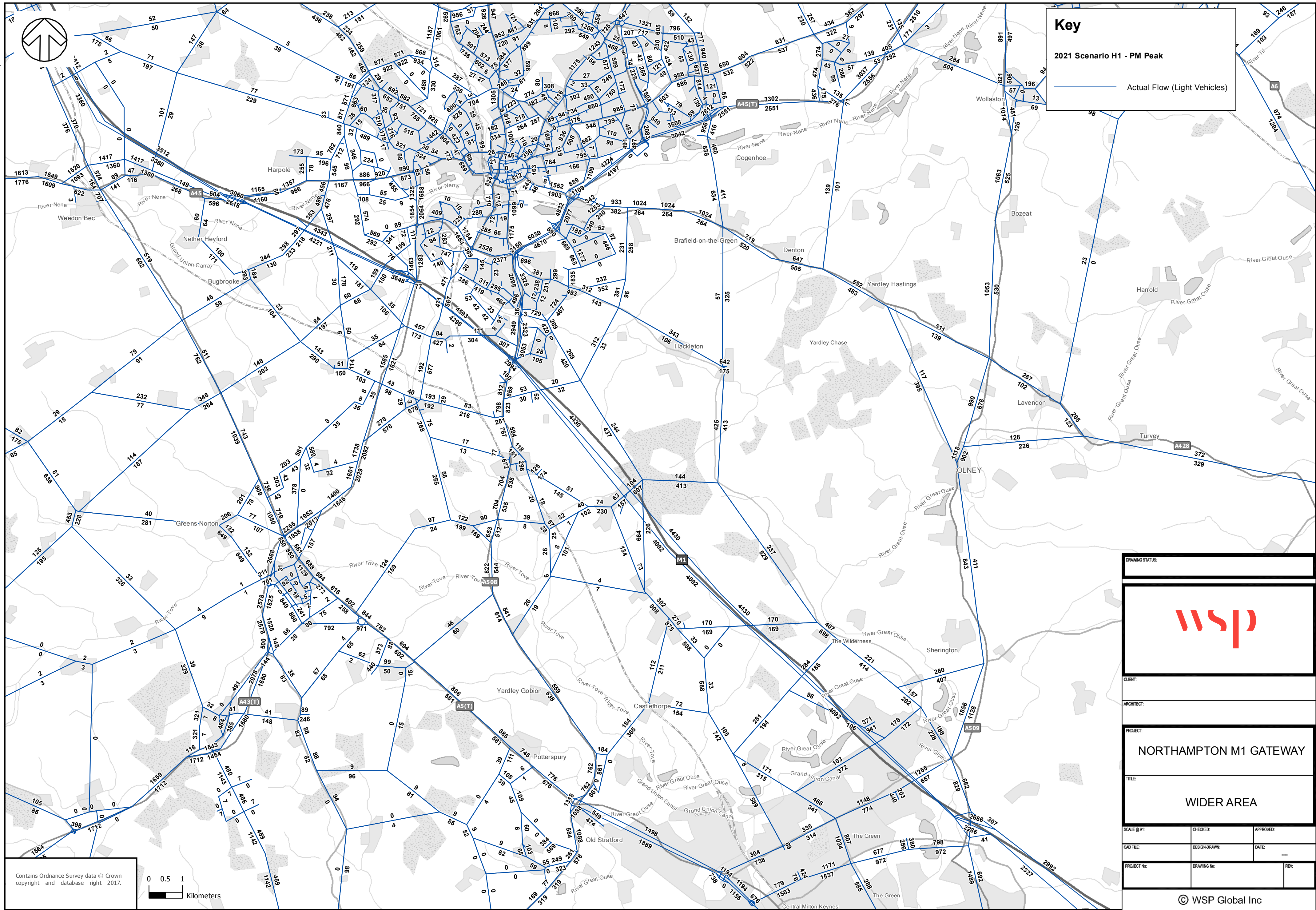
— Actual Flow (Light Vehicles)



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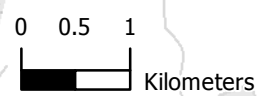


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2021 Scenario H1 - PM Peak

— Actual Flow (Light Vehicles)

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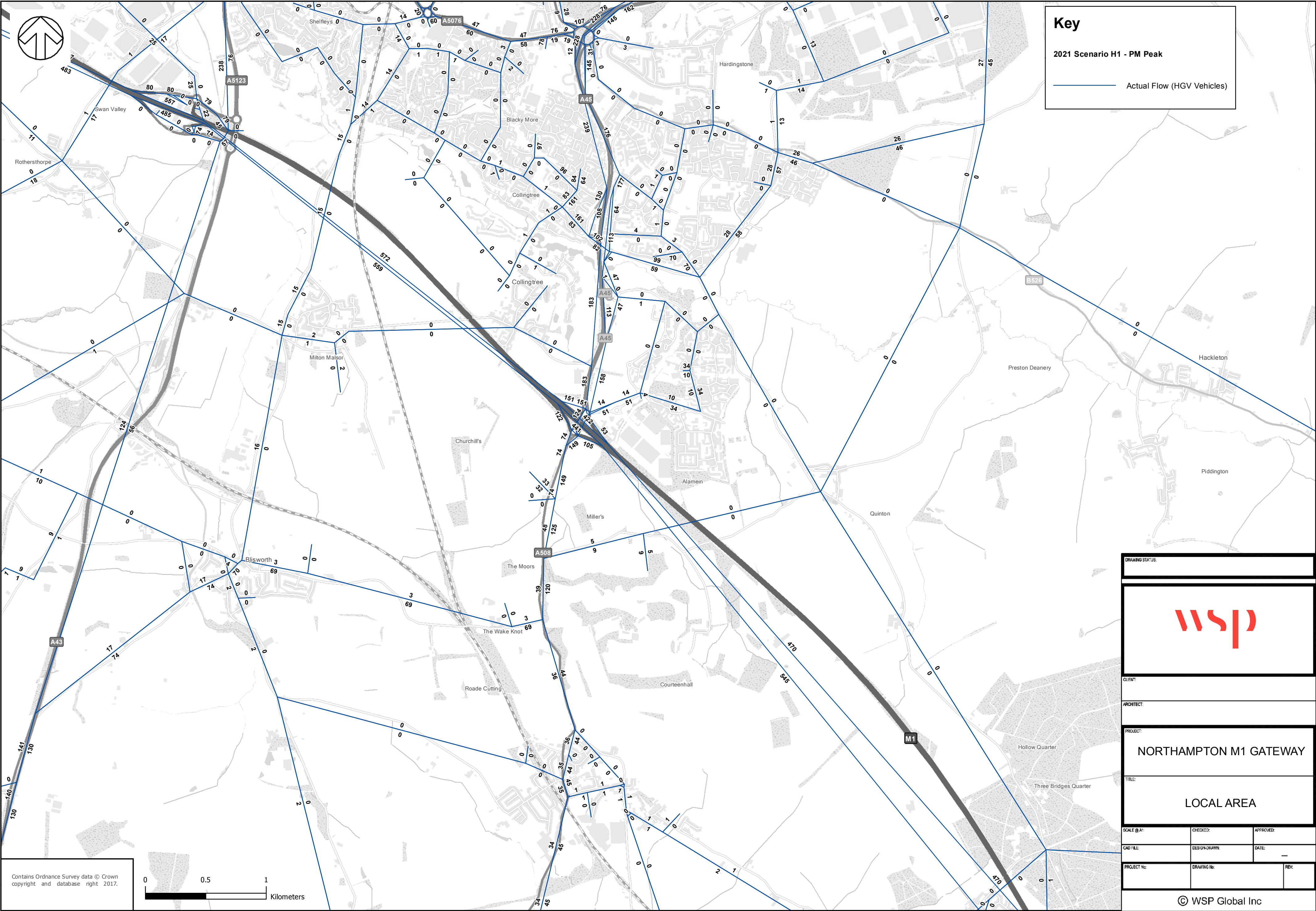
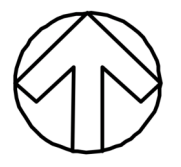
NORTHAMPTON M1 GATEWAY

TITLE:

WIDER AREA

SCALE @ A:	CHECKED:	APPROVED:
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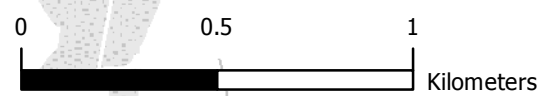


Key

2021 Scenario H1 - PM Peak

— Actual Flow (HGV Vehicles)

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DRAWING STATUS:



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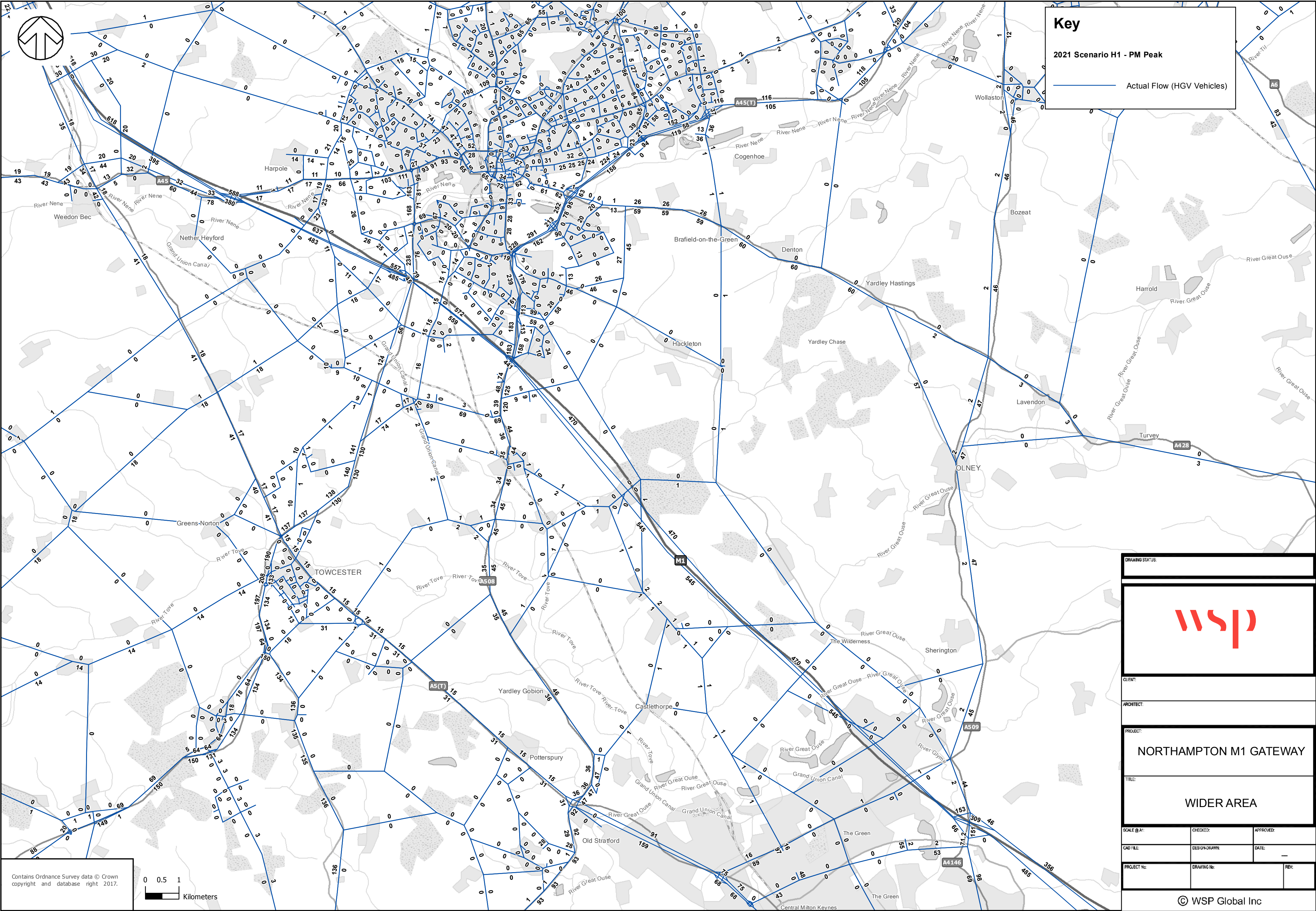
NORTHAMPTON M1 GATEWAY

TITLE:

LOCAL AREA

SCALE @ A:	CHECKED:	APPROVED:
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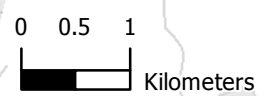


Key


2021 Scenario H1 - PM Peak

— Actual Flow (HGV Vehicles)

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DRAWING STATUS:



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ARCHITECT:

PROJECT:

NORTHAMPTON M1 GATEWAY

TITLE:

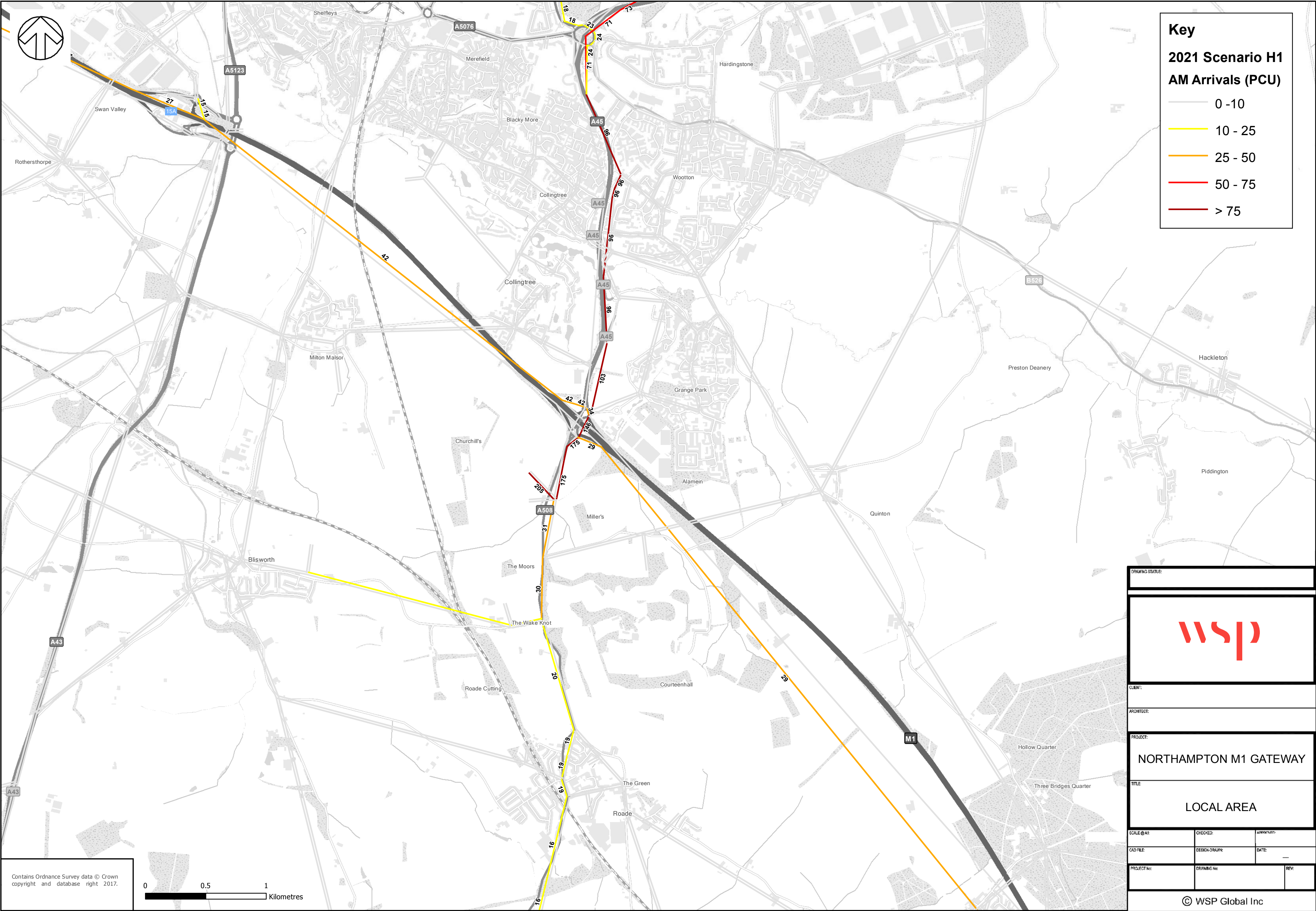
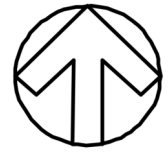
WIDER AREA

SCALE @ A:	CHECKED:	APPROVED:
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2021 DEVELOPMENT CASE
WITH HIGHWAY MITIGATION (SCENARIO H1)

NSTM2 Select Link Analysis



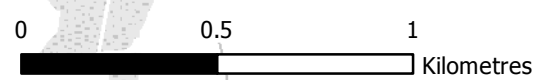
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2021 Scenario H1

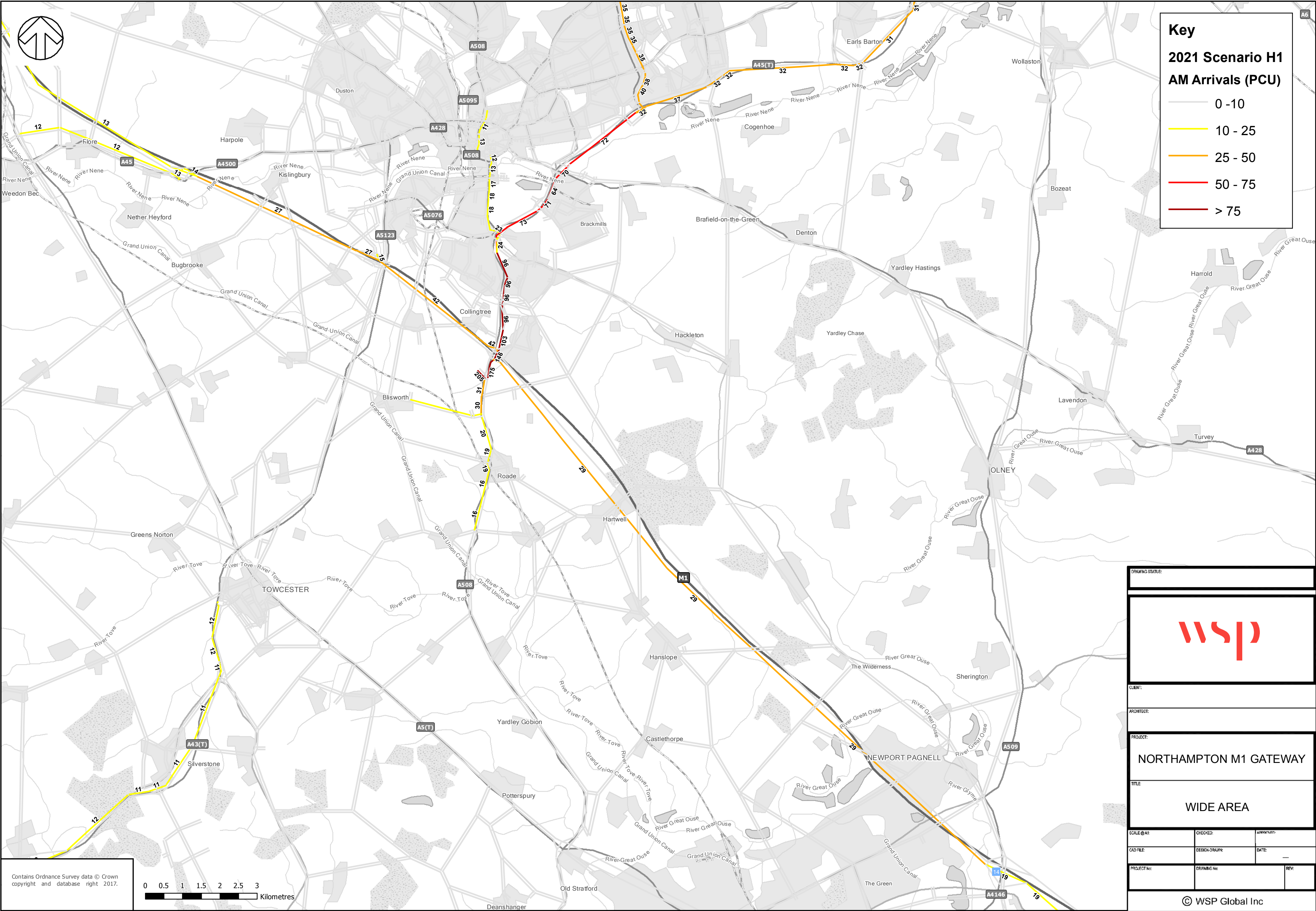
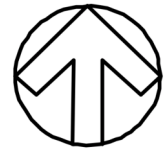
AM Arrivals (PCU)

—	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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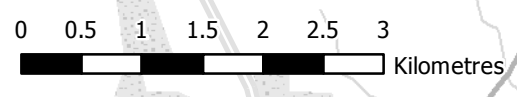
Key

2021 Scenario H1


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:

WIDE AREA

SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN DRAWING:	DATE:
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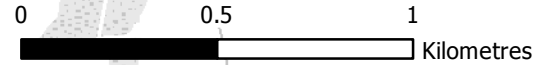
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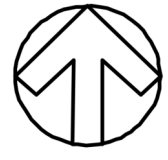
Key
2021 Scenario H1
AM Departures (PCU)

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

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SCALE @ A1:	CHECKED:	APPROVED:
CAD FILE:	DESIGN/DRAWN:	DATE:
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Key
2021 Scenario H1
AM Departures (PCU)

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

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DRAWING STATUS:



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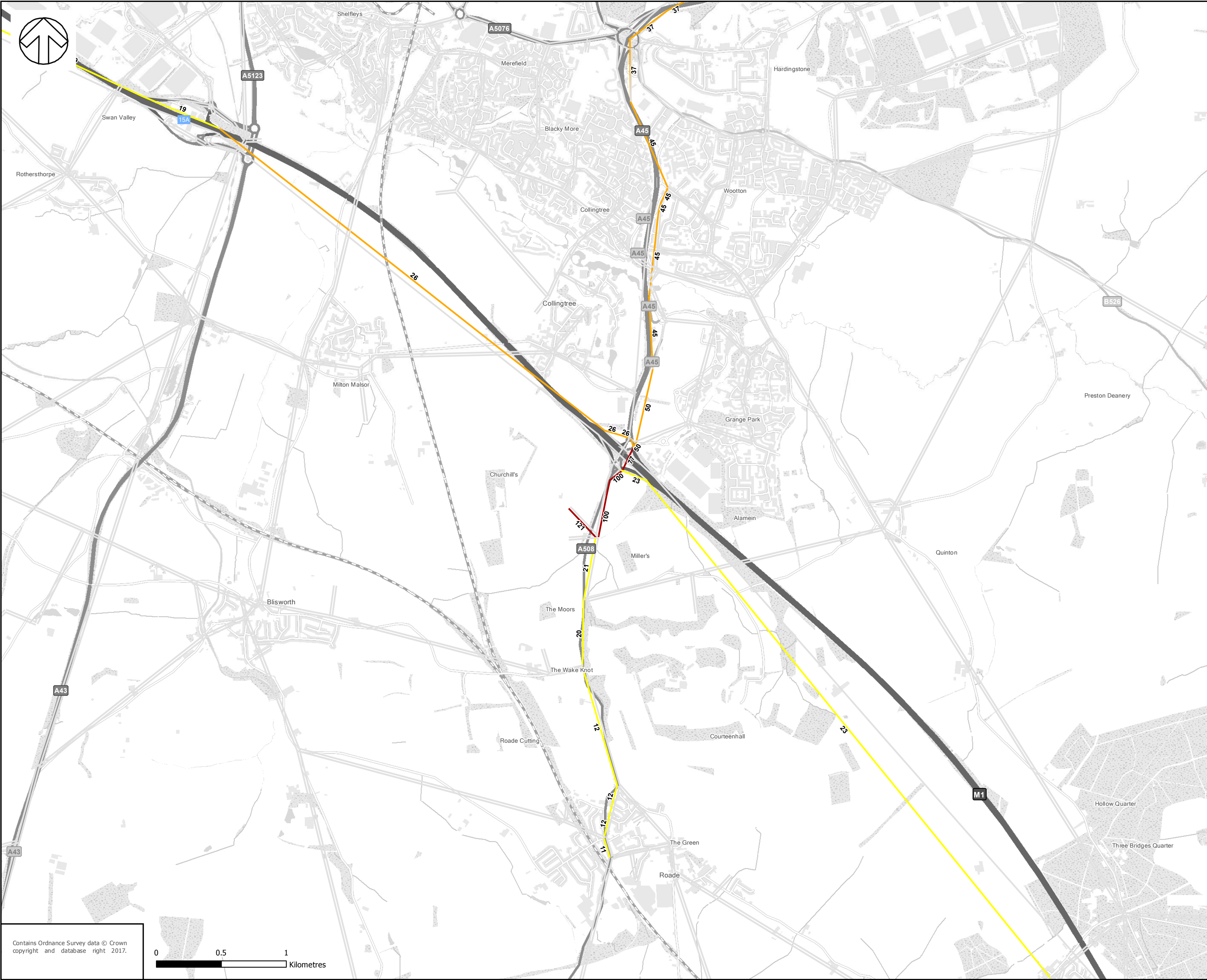
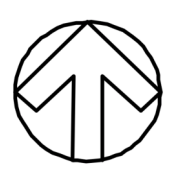
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TITLE:
WIDE AREA

SCALE @ A1	CHECKED:	APPROVED:
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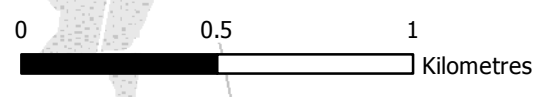
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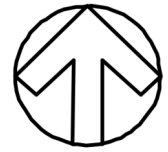
Key
2021 Scenario H1
PM Arrivals (PCU)

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

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DRAWING STATUS:		
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Key
2021 Scenario H1
PM Arrivals (PCU)

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

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DRAWING STATUS:



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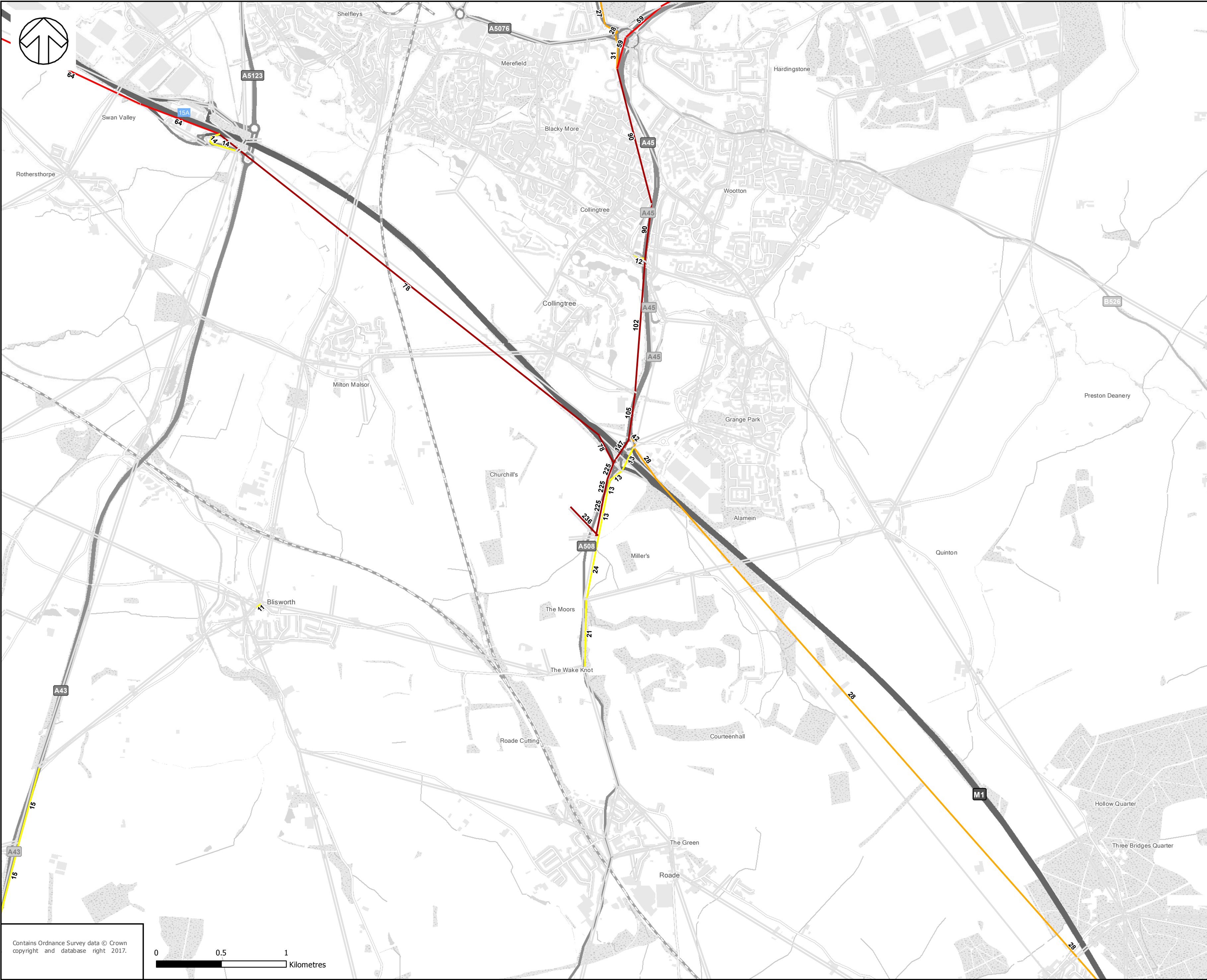
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PROJECT:
NORTHAMPTON M1 GATEWAY

TITLE:
WIDE AREA

SCALE @ A1	CHECKED:	APPROVED:
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PROJECT No:	DRAWING No:	REV:

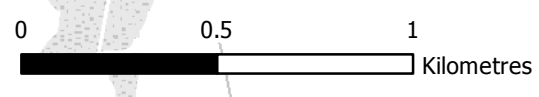
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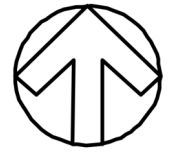
Key
2021 Scenario H1
PM Departures (PCU)

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

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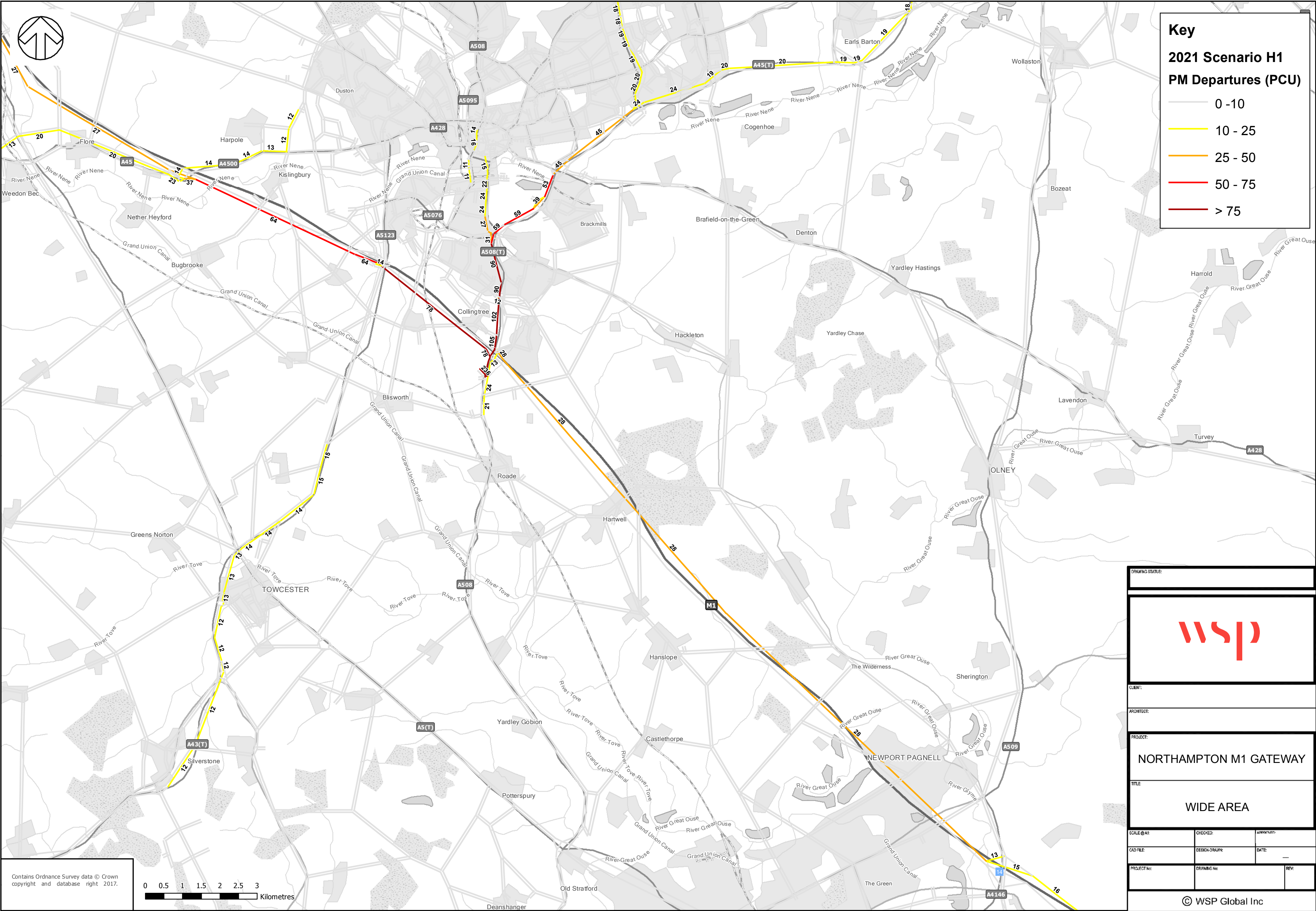


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2021 Scenario H1
PM Departures (PCU)

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