

ARDENT CONSULTING ENGINEERS
 Third Floor, The Hallmark Building
 52-96 Leadenhall Street
 London EC3M 8JF

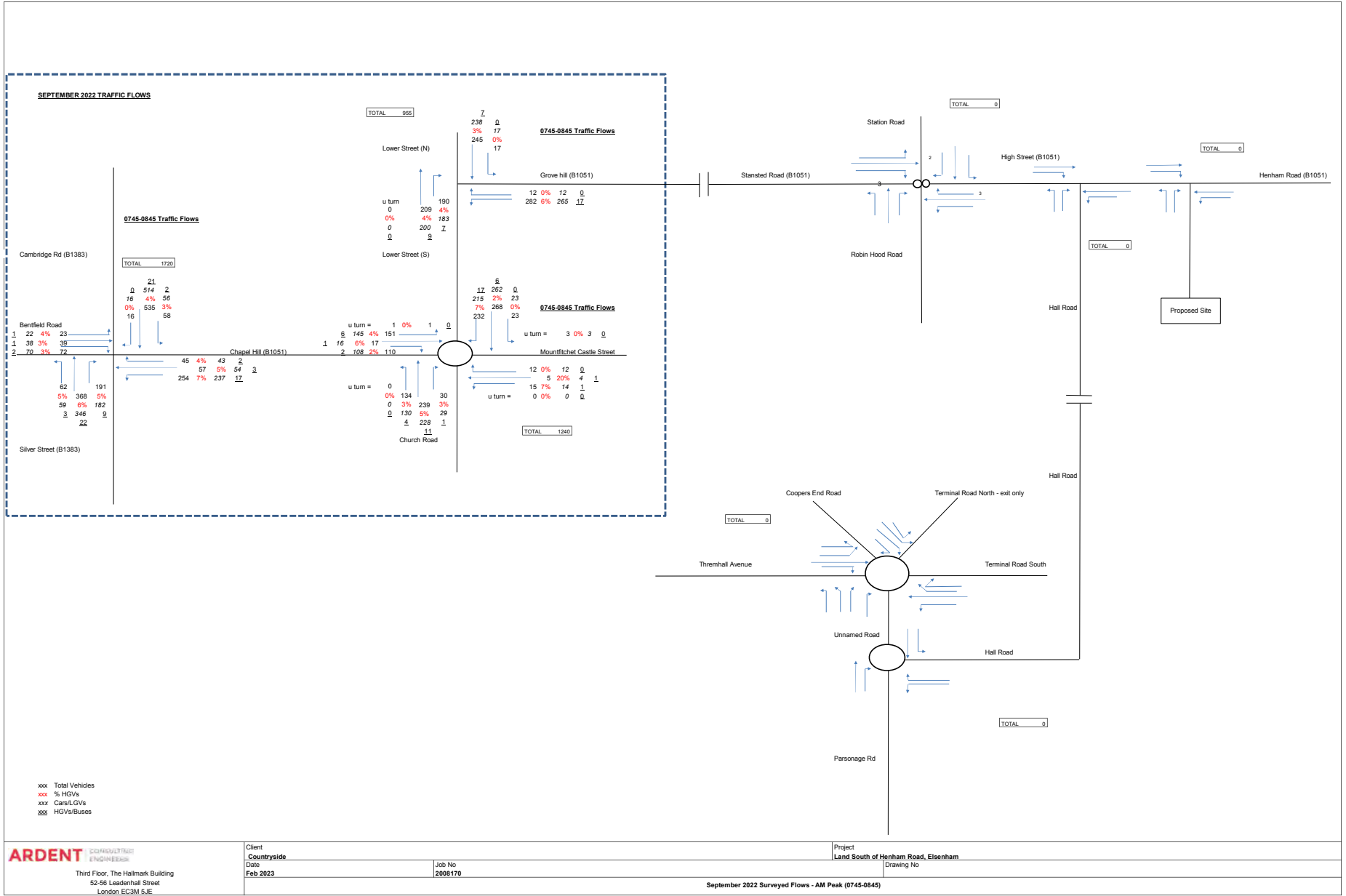
Client
Countryside
 Date
July 2022

Job No
2008170

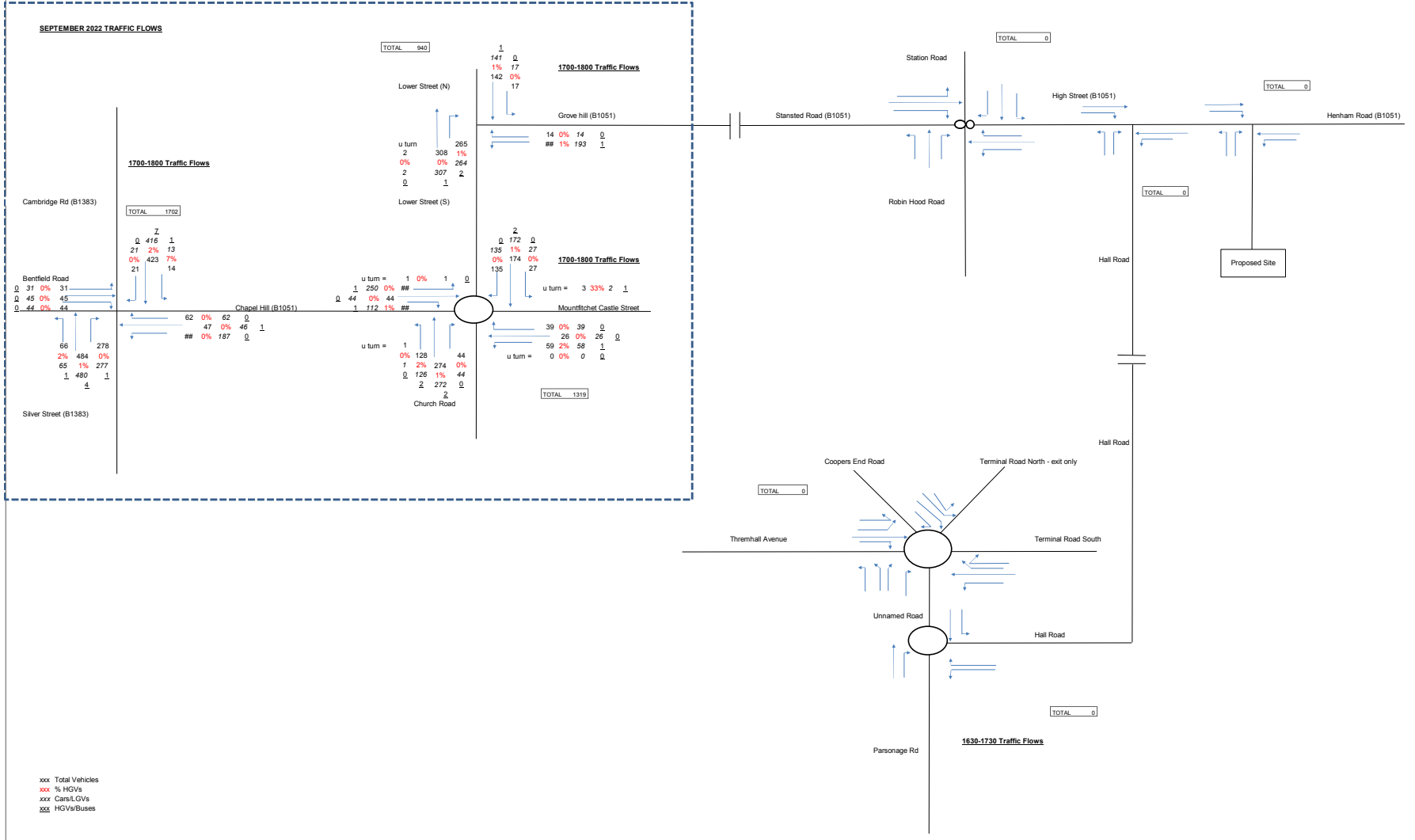
Project
Land South of Henham Road, Eisenham
 Drawing No

Committed Development Flows (Isabel Drive - 99 dwellings) - PM Peak

Appendix E

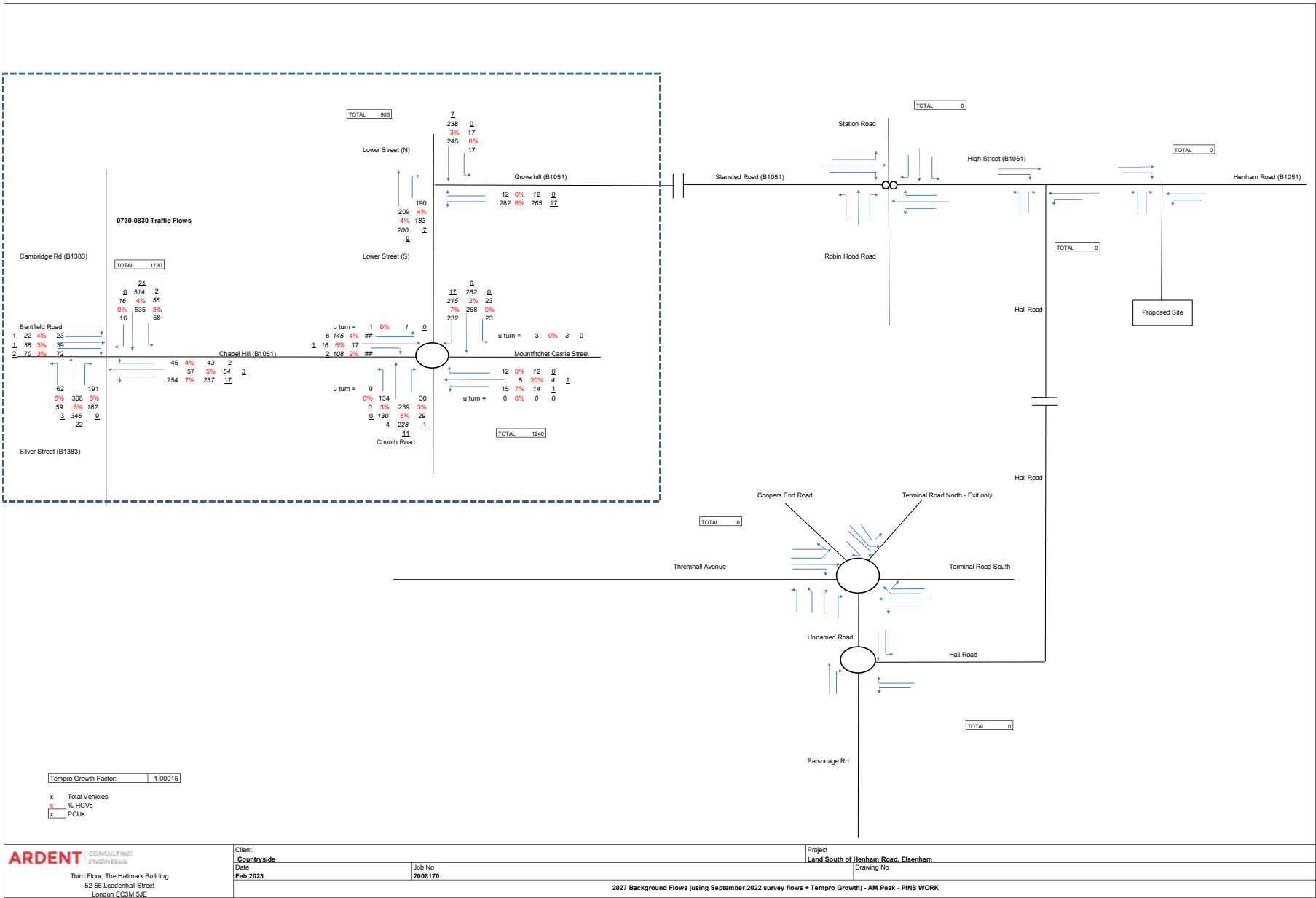


SEPTEMBER 2022 TRAFFIC FLOWS



xxx Total Vehicles
 xxx % HGVs
 xxx Cars/LGVs
 xxx HGVs/Buses

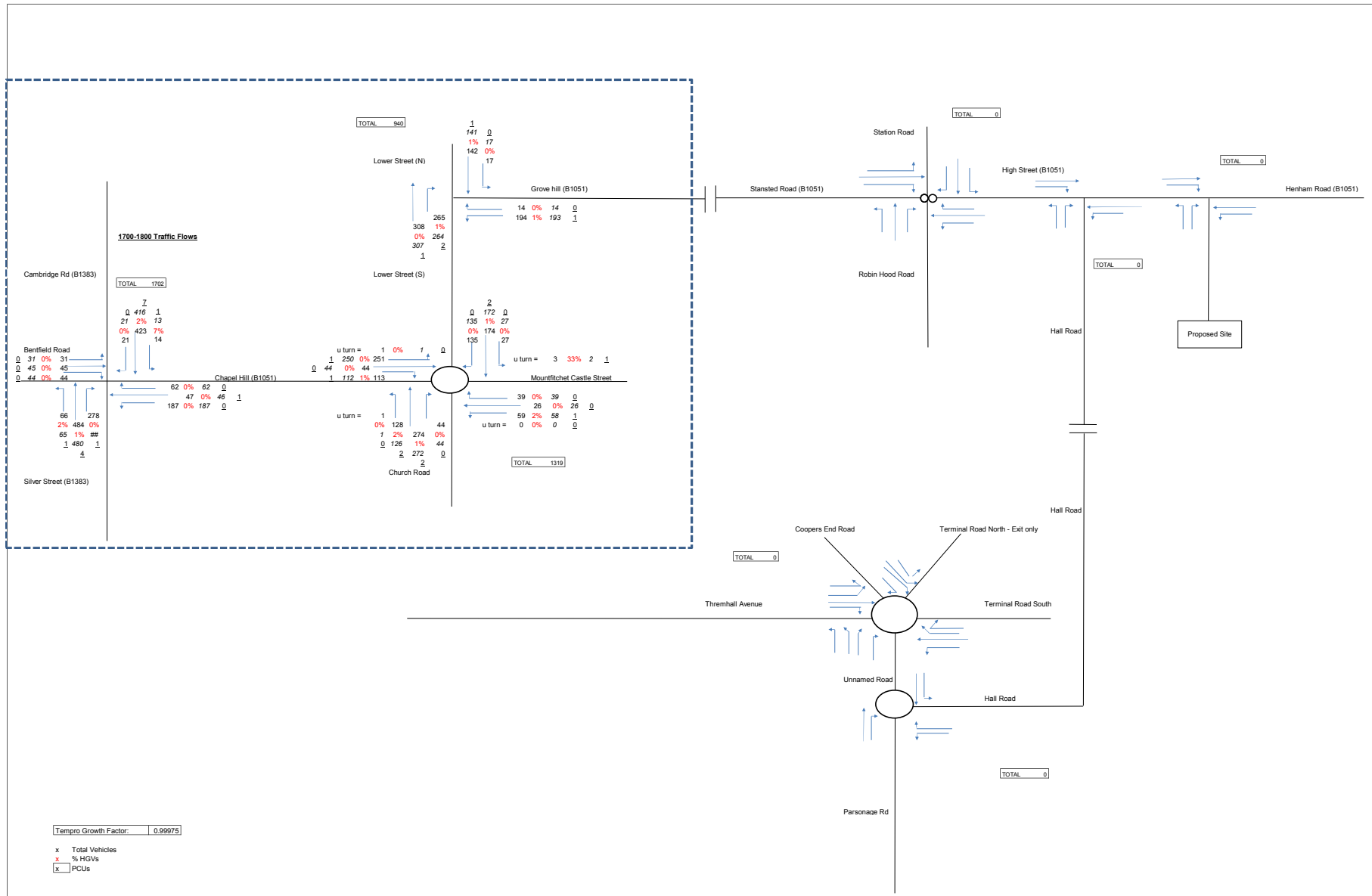
ARDENT CONSULTING ENGINEERS Third Floor, The Hatmark Building 52-56 Leadenhall Street London EC3M 5JE	Client	Countryside	Project	Land South of Henham Road, Elsenham
	Date	Feb 2023	Job No	2008170
			Drawing No	
September 2022 Surveyed Flows - PM Peak (1700-1800)				



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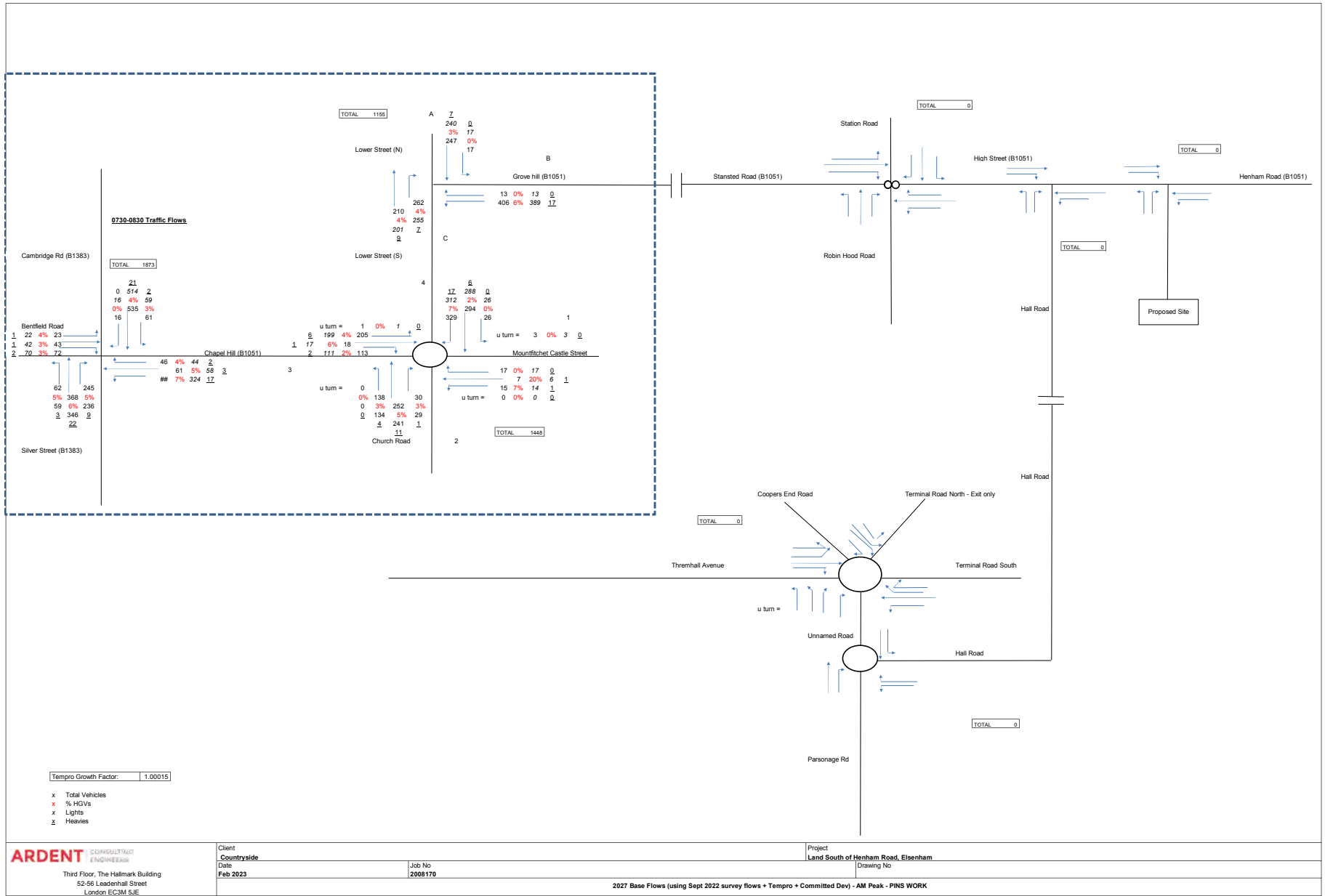
Client: **Countryside**
 Date: **Feb 2023**
 Job No: **2008170**

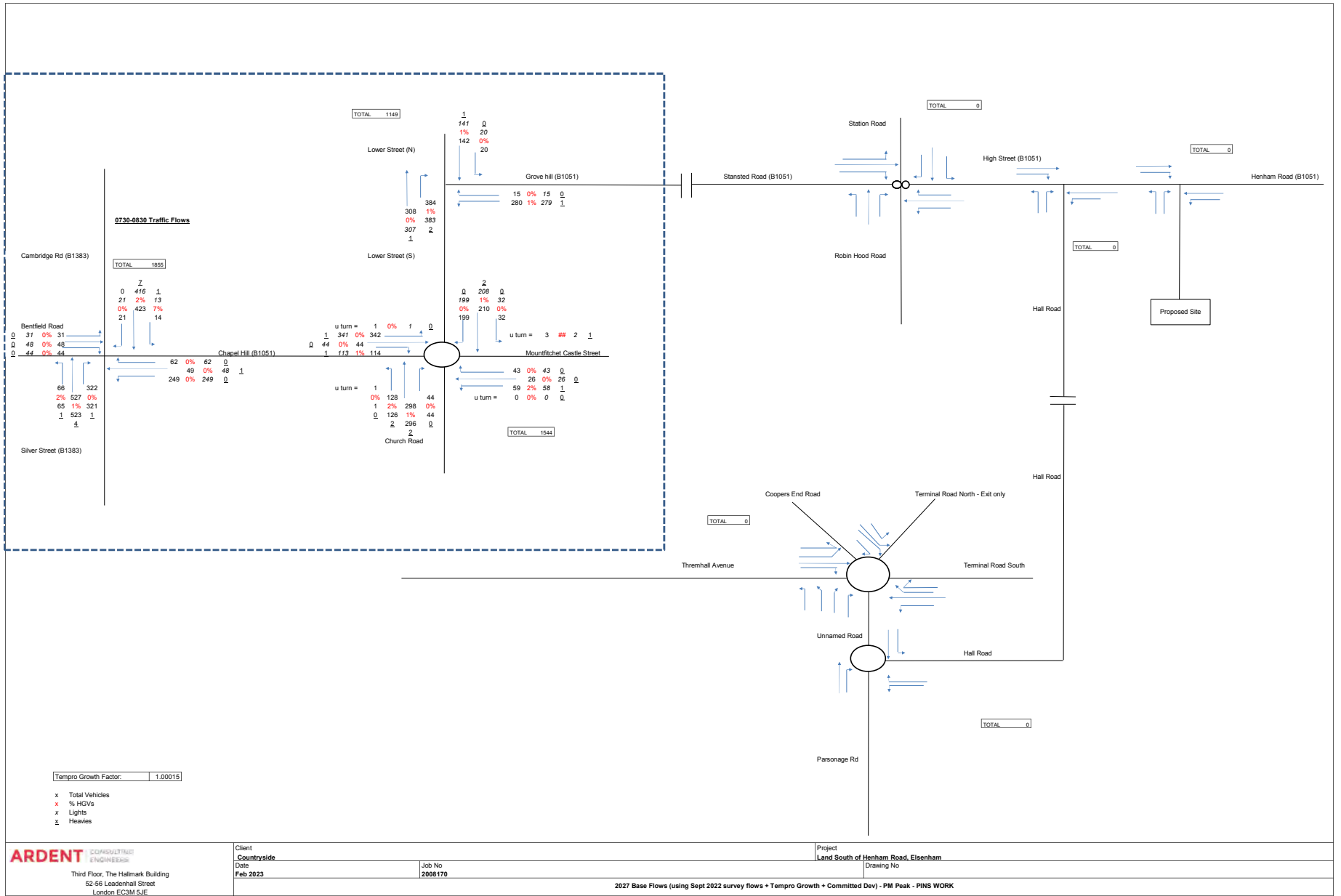
Project: **Land South of Henham Road, Elnham**
 Drawing No:

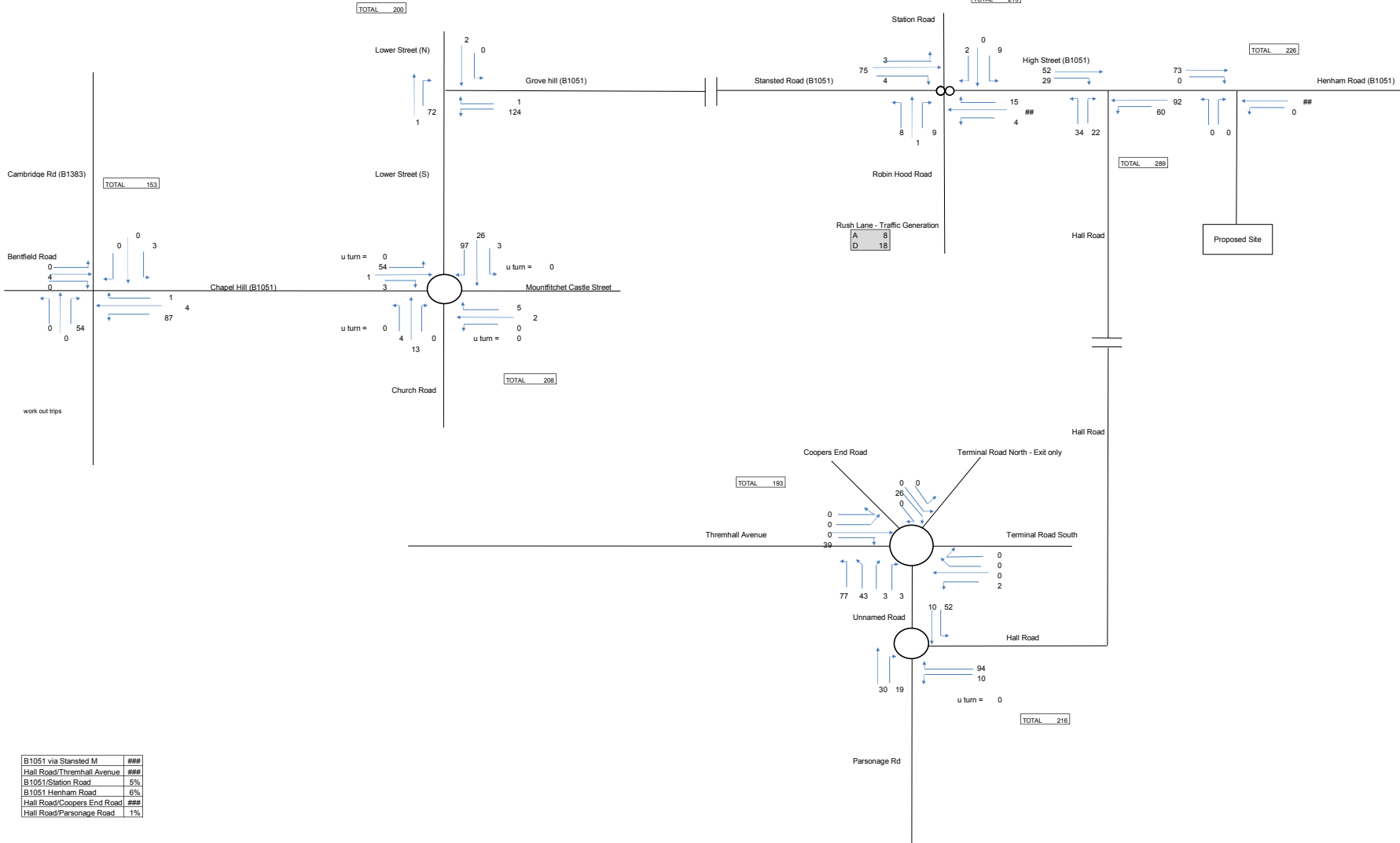


Tempo Growth Factor: 0.99975

x Total Vehicles
 x % HGVs
 x PCUs







B1051 via Stansted M	###
Hall Road/Thremhall Avenue	###
B1051/Station Road	5%
B1051/Henham Road	5%
Hall Road/Coopers End Road	###
Hall Road/Parsonage Road	1%

ARDENT CONSULTING ENGINEERS

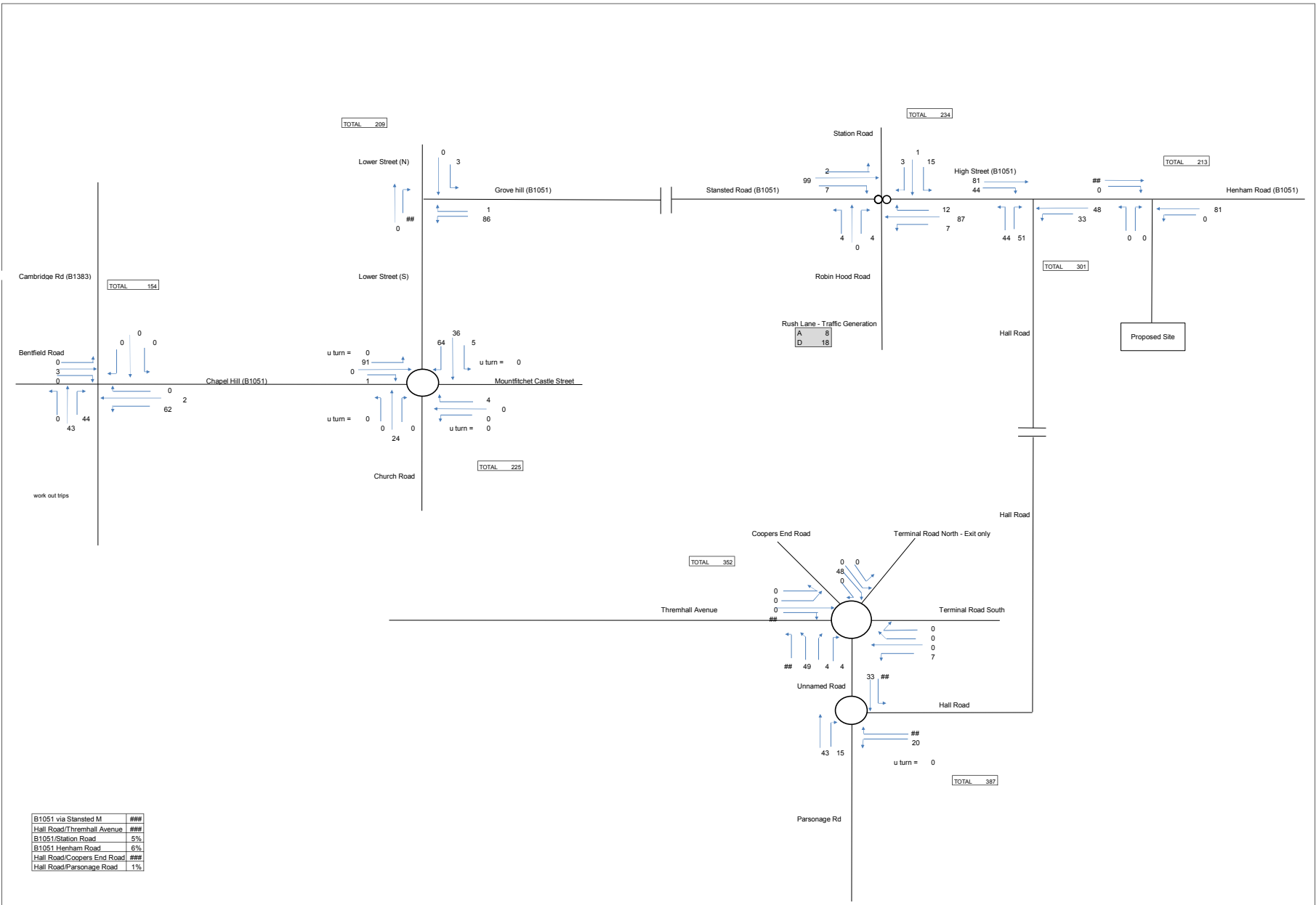
Third Floor, The Hallmark Building
52-56 Leadenhall Street
London EC3M 5JE

Client
Countryside
Date
July 2022

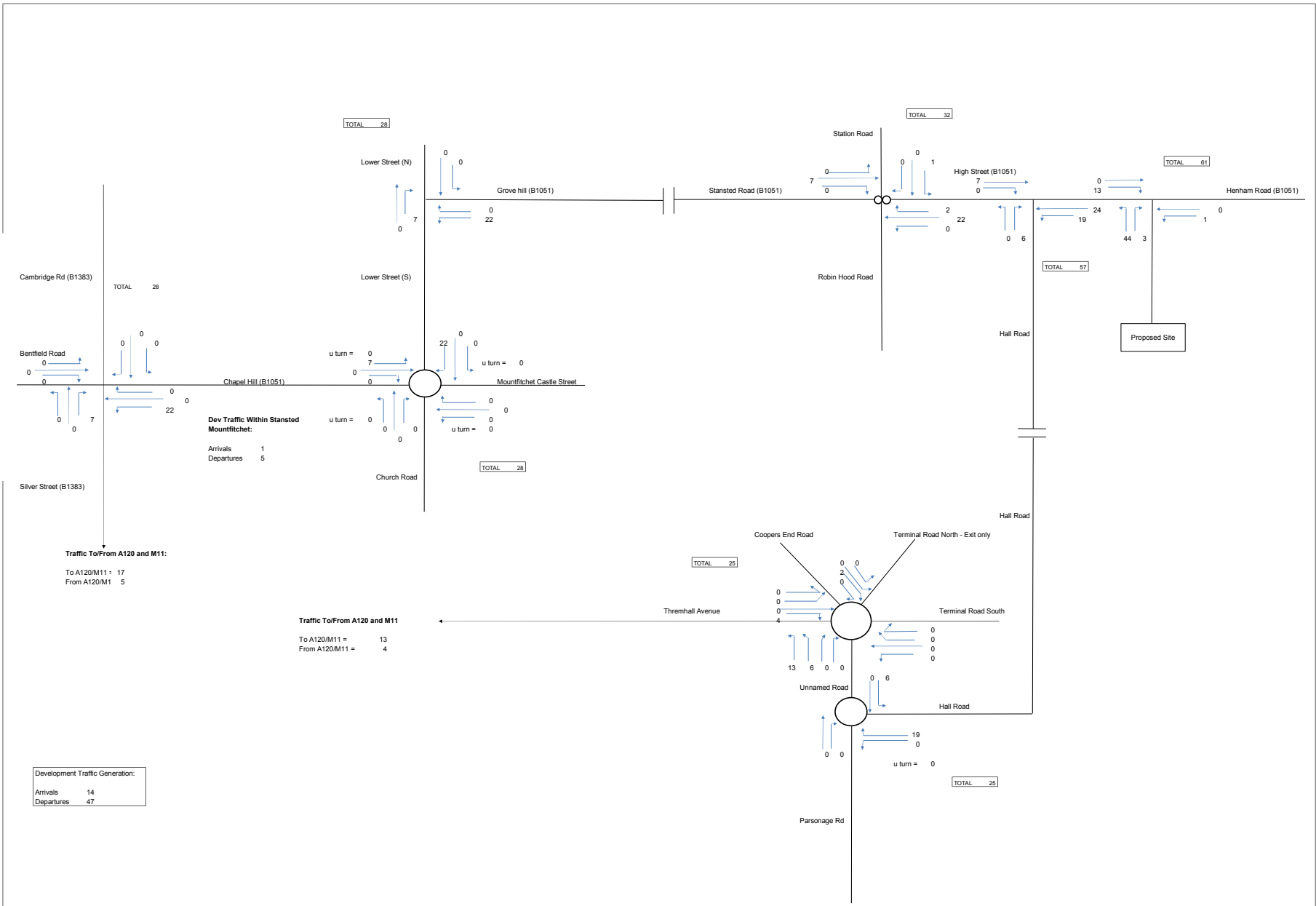
Job No
2008170

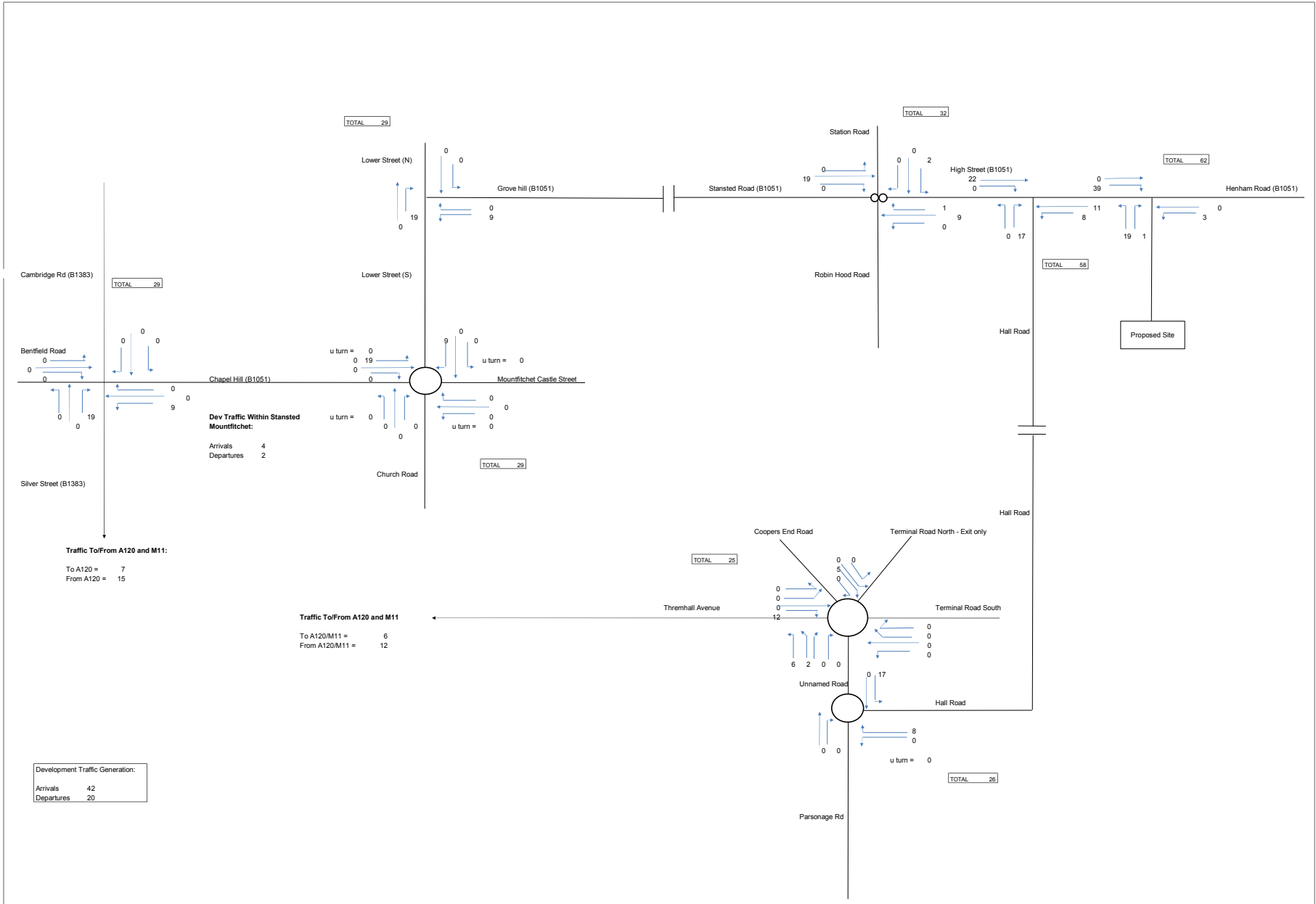
Project
Land South of Henham Road, Eisenham
Drawing No

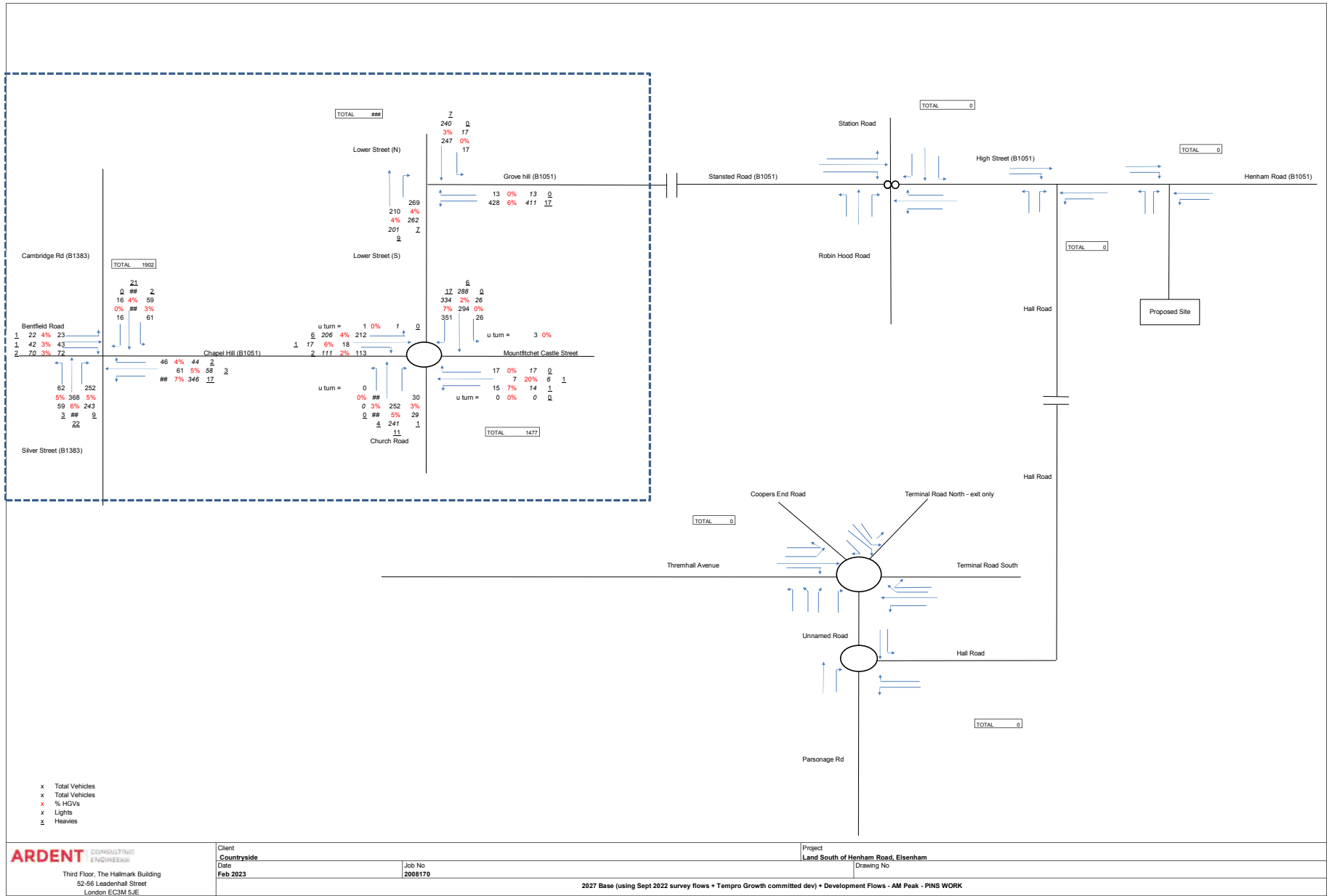
Total Committed Development Flows (2022) - AM Peak

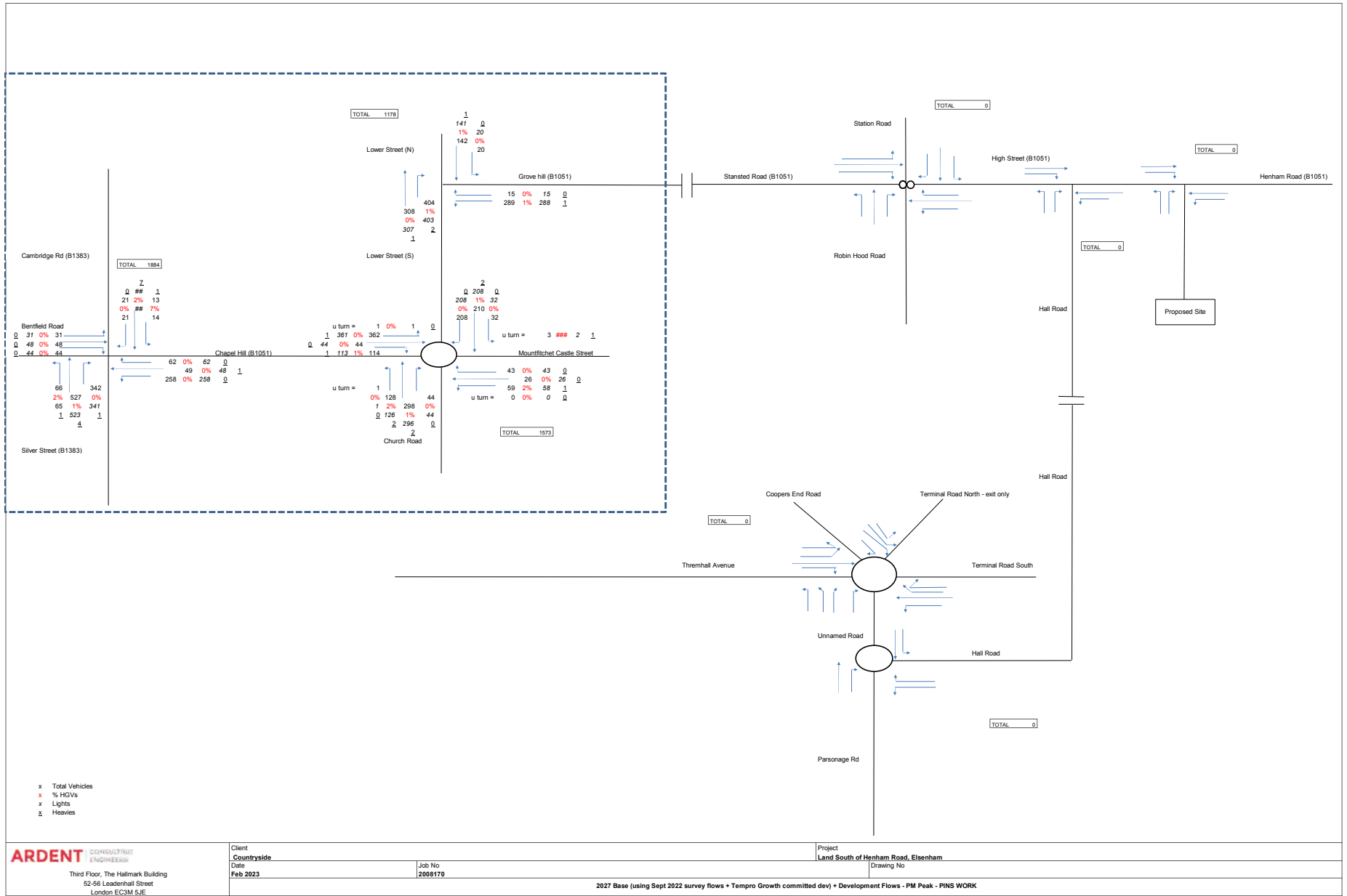


Appendix F

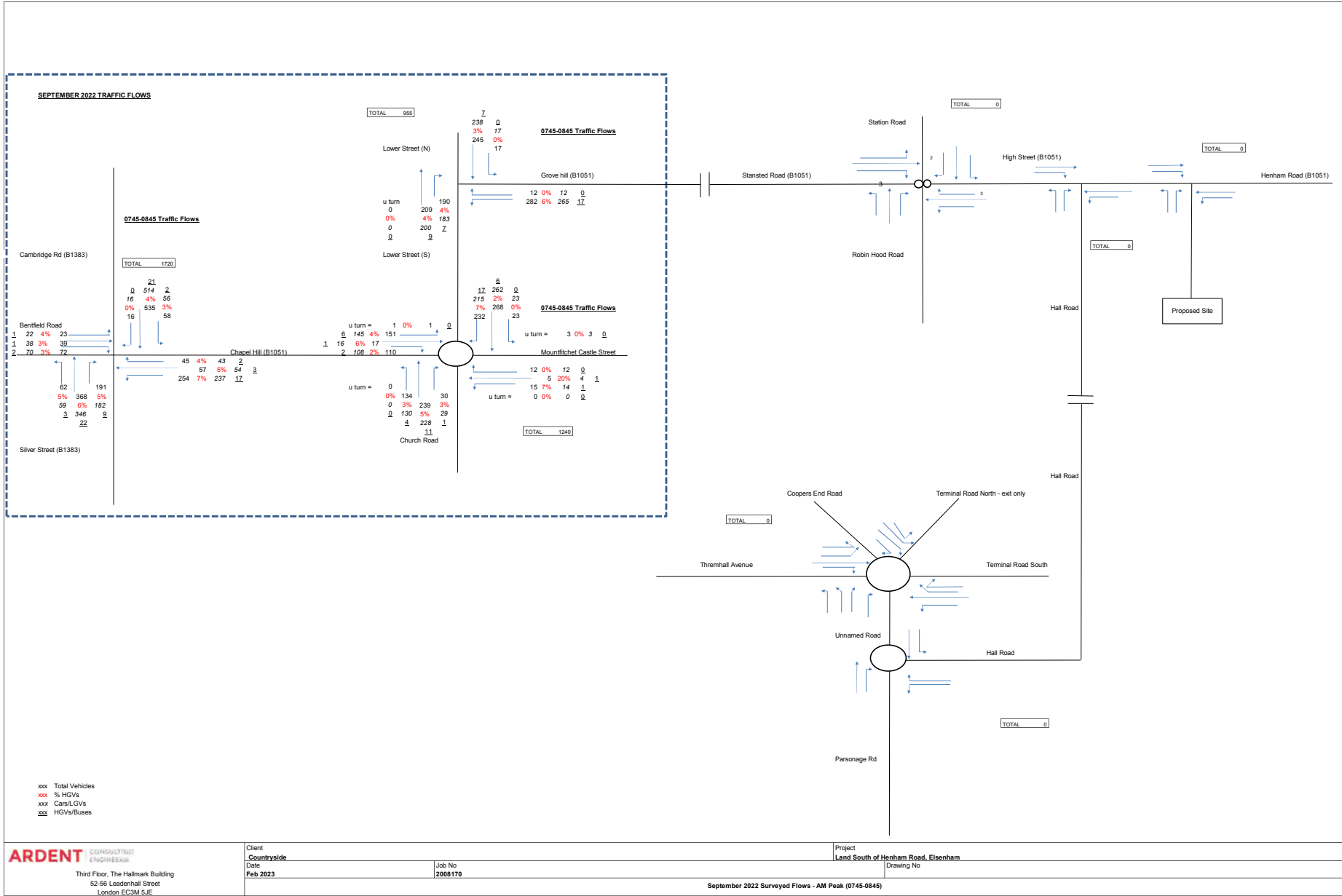


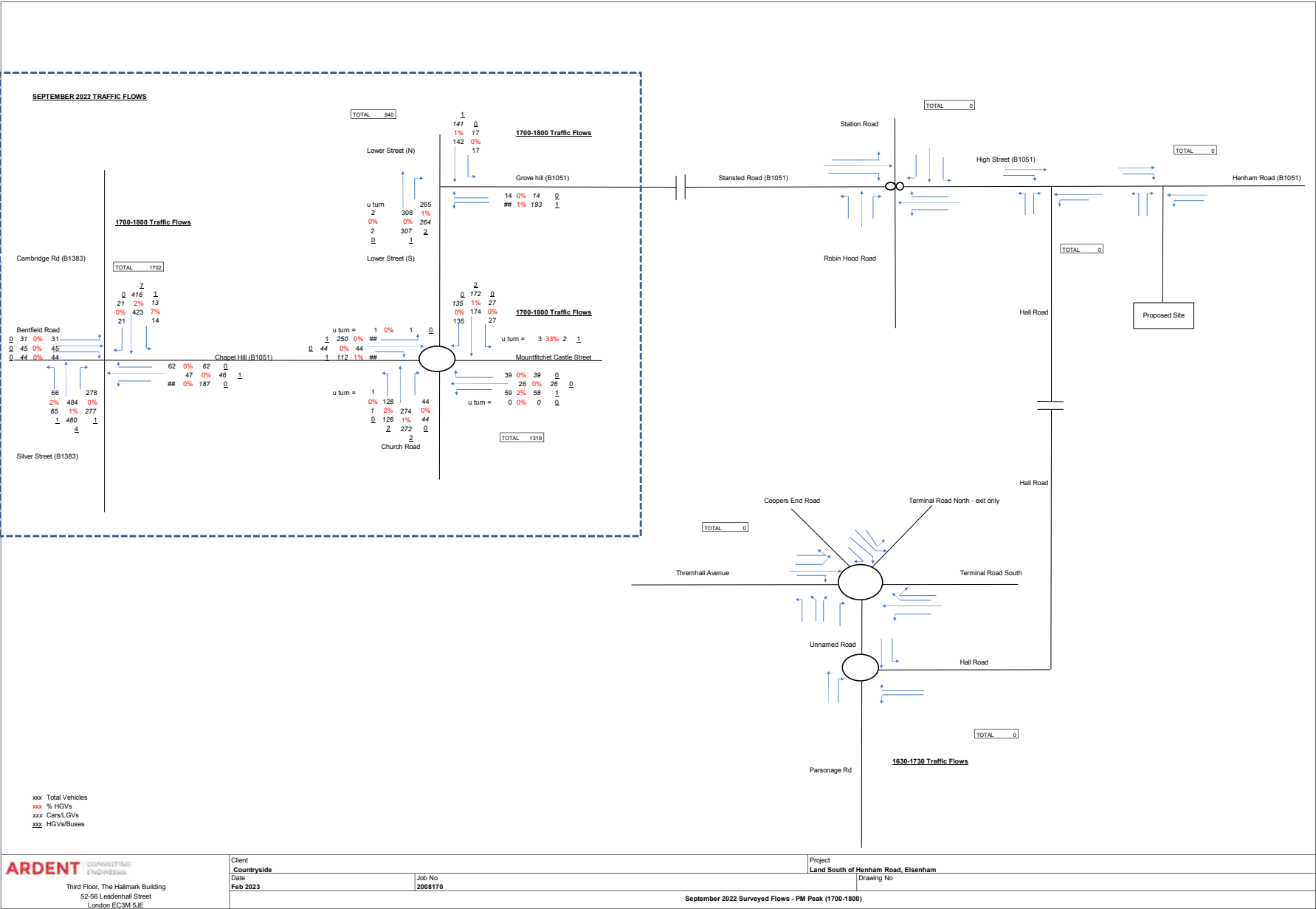


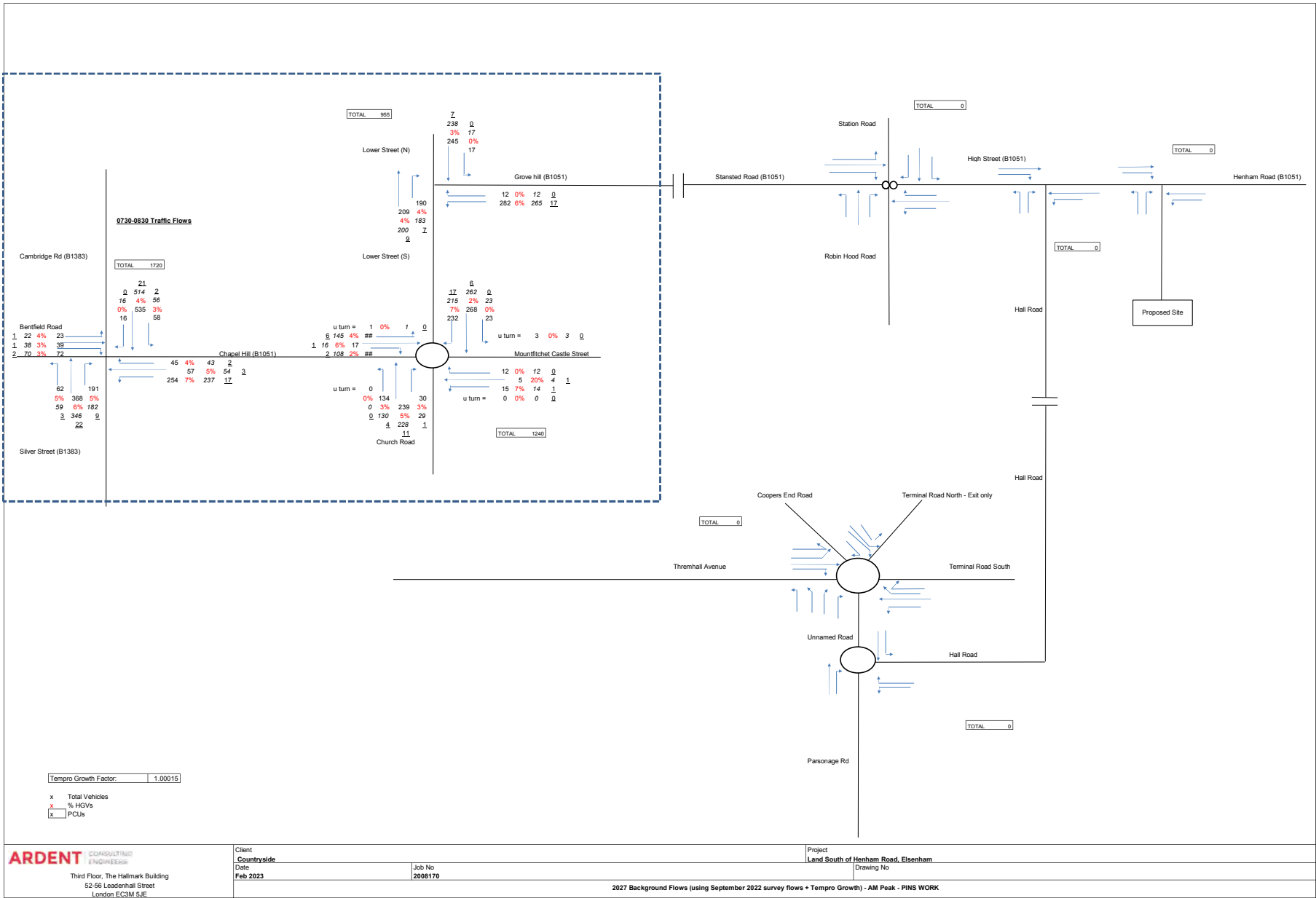


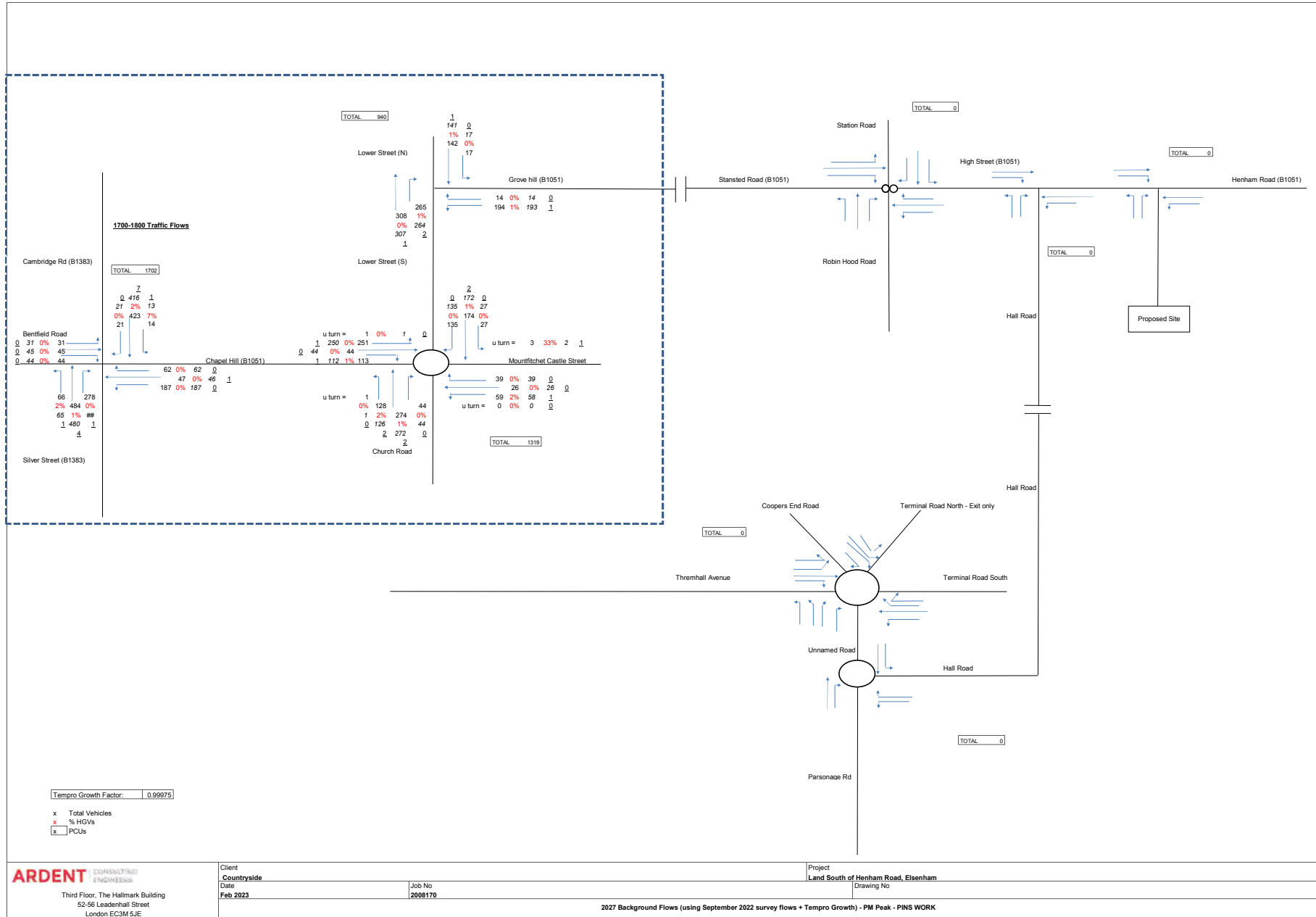


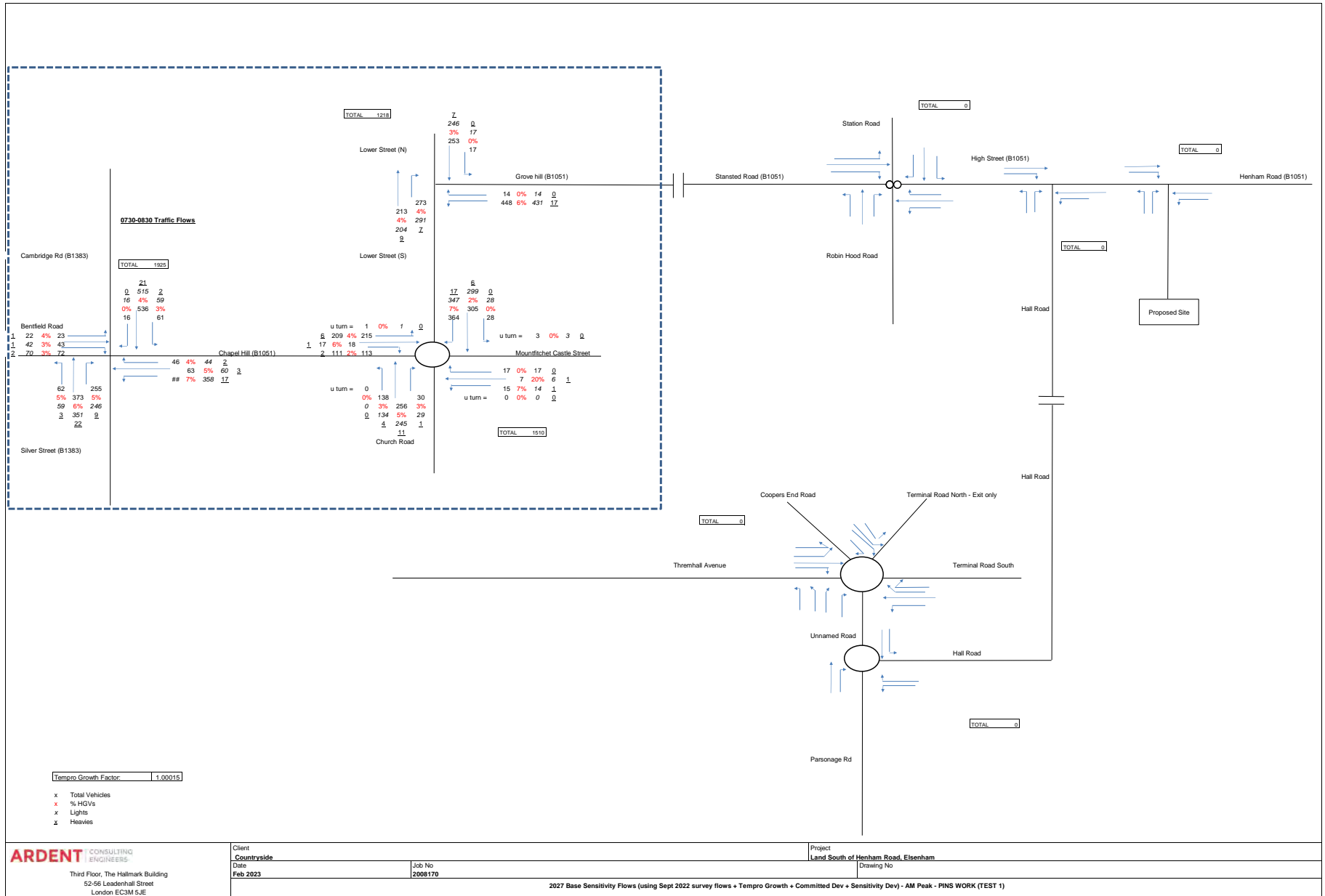
Appendix G

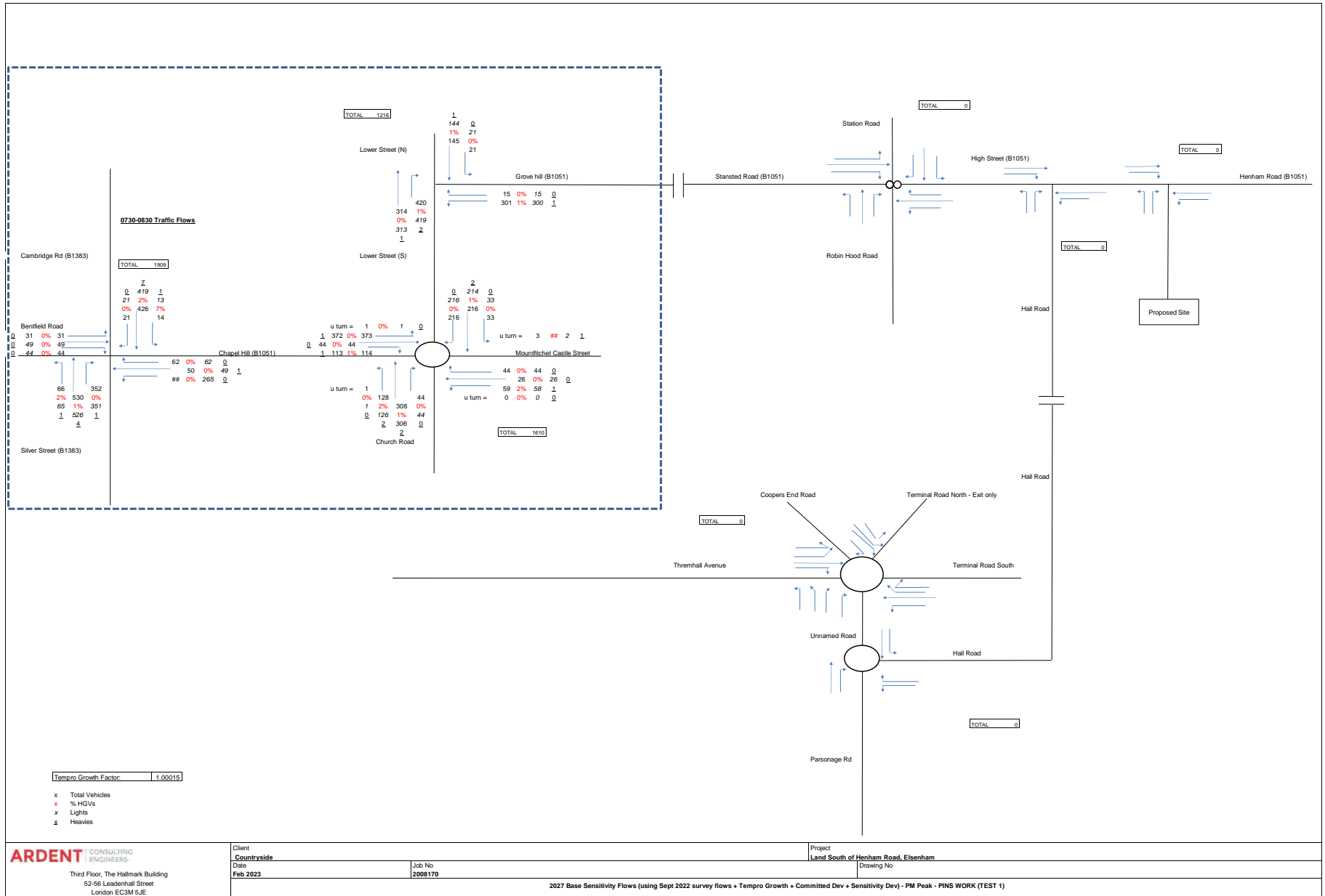










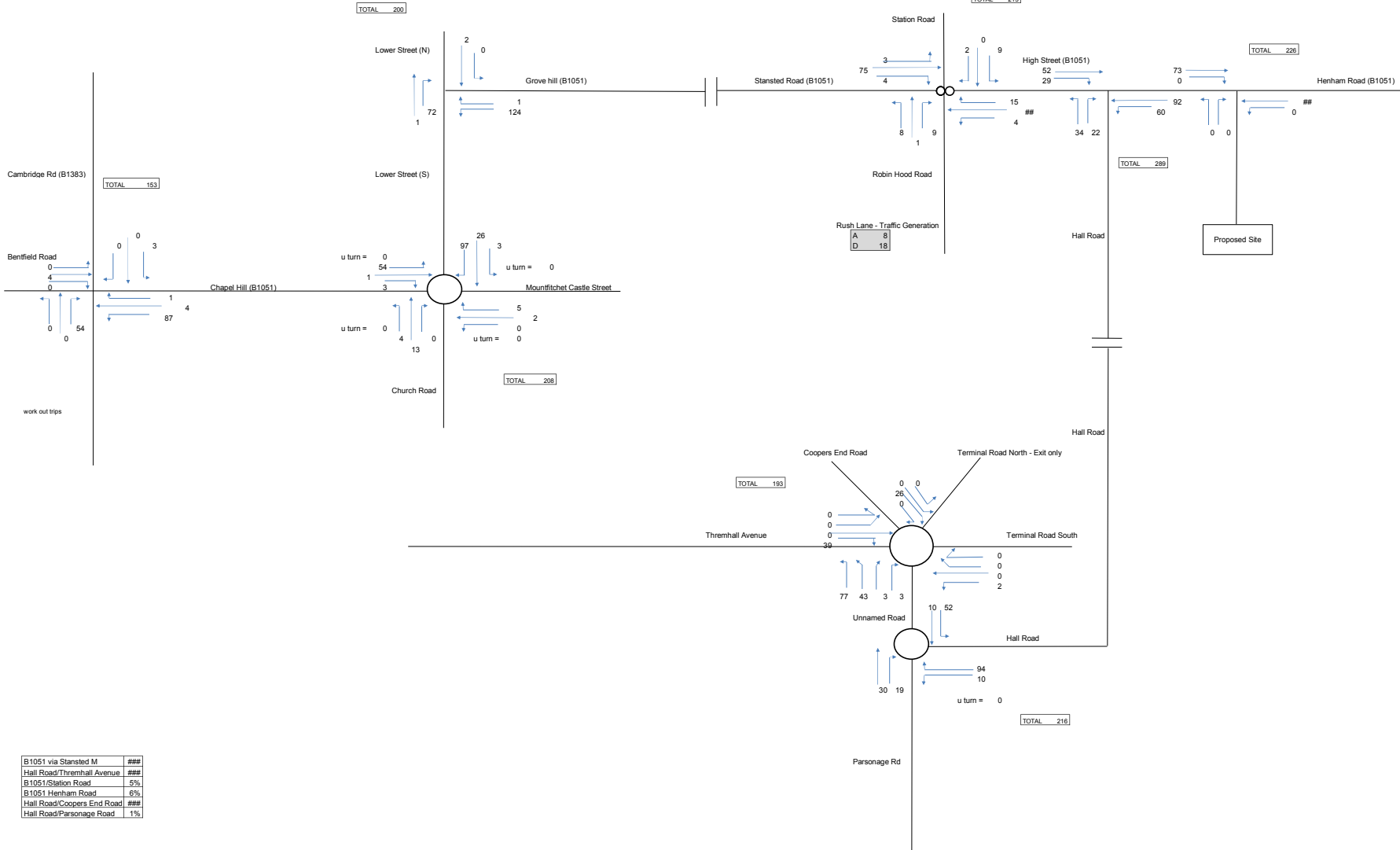


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 London EC3M 5JE

Client: Countryside
Date: Feb 2023
Job No: 2008170

Project: Land South of Henham Road, Elsenham
Drawing No:

2027 Base Sensitivity Flows (using Sept 2022 survey flows + Tempo Growth + Committed Dev + Sensitivity Dev) - PM Peak - PINS WORK (TEST 1)



B1051 via Stansted M	###
Hall Road/Thremhall Avenue	###
B1051/Station Road	5%
B1051/Henham Road	5%
Hall Road/Coopers End Road	###
Hall Road/Parsonage Road	1%

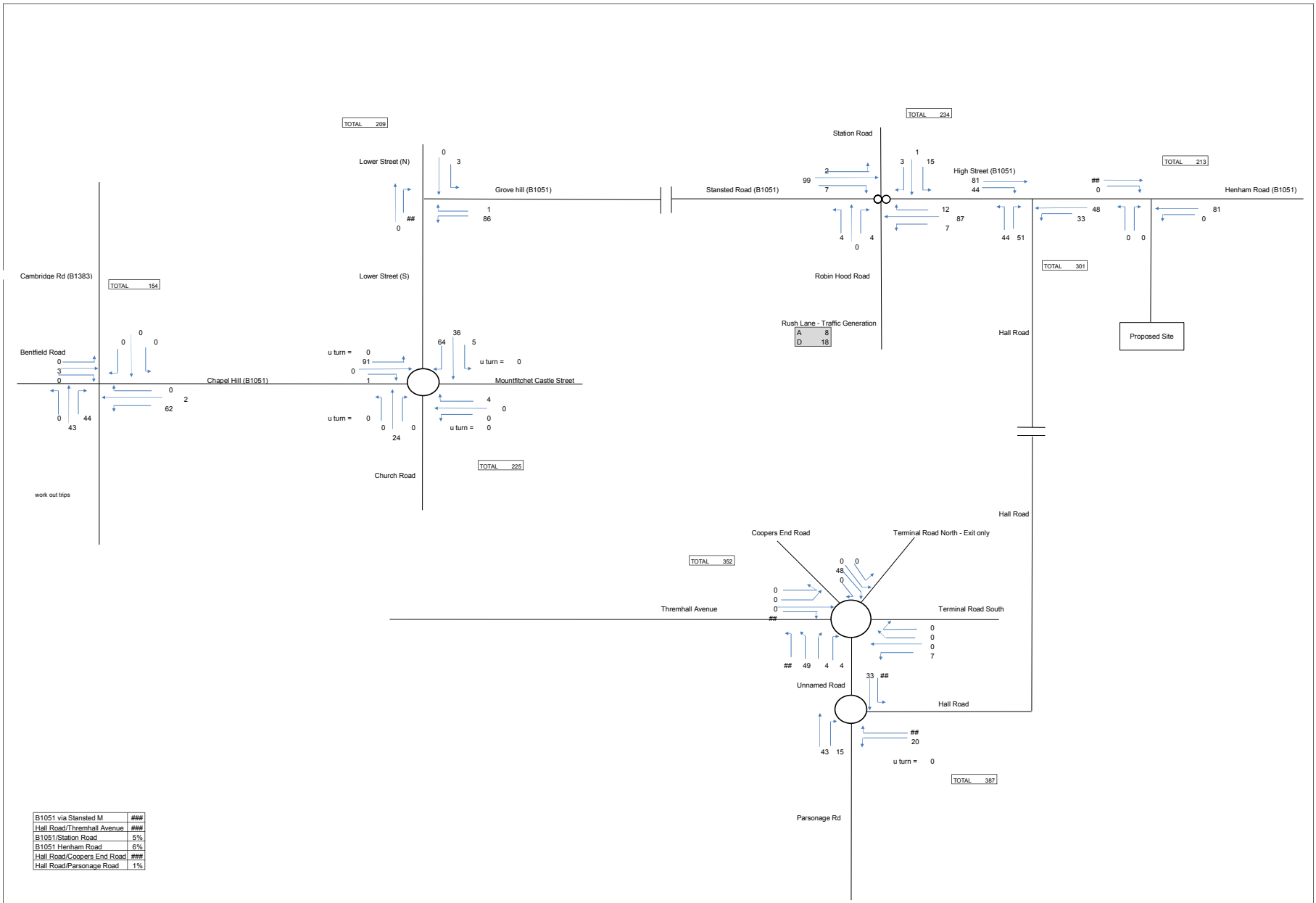
ARDENT CONSULTING ENGINEERS
 Third Floor, The Hallmark Building
 52-56 Leadenhall Street
 London EC3M 5JE

Client
Countryside
 Date
July 2022

Job No
2008170

Project
Land South of Henham Road, Eisenham
 Drawing No

Total Committed Development Flows (2022) - AM Peak



B1051 via Stansted M	###
Hall Road/Thremhall Avenue	###
B1051/Station Road	5%
B1051/Henham Road	6%
Hall Road/Coopers End Road	###
Hall Road/Parsonage Road	1%

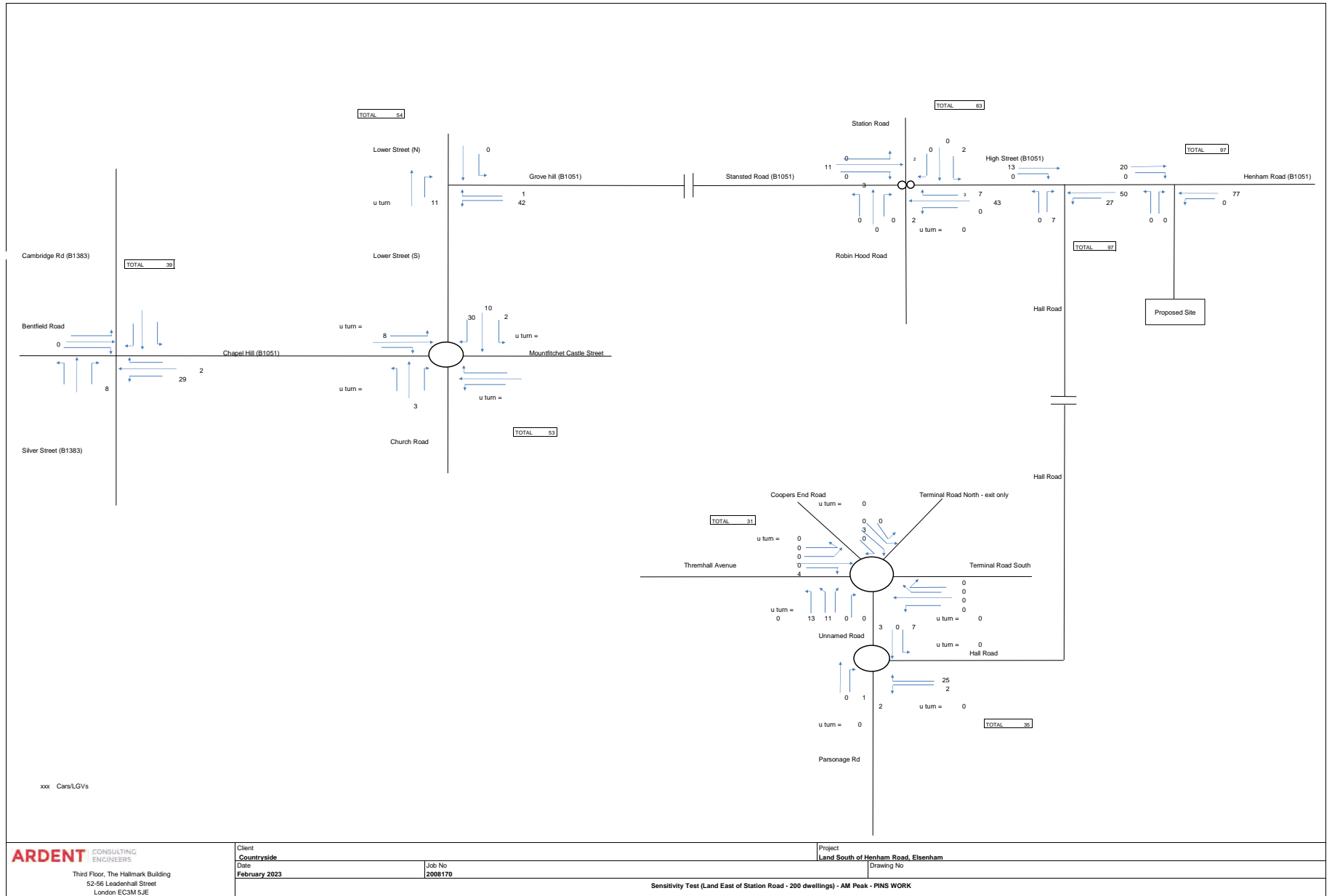
ARDENT CONSULTING ENGINEERS
 Third Floor, The Hallmark Building
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 London EC3N 5JE

Client
Countryside
 Date
July 2022

Job No
2008170

Project
Land South of Henham Road, Eisenham
 Drawing No

Total Committed Development Flows (2022) - PM Peak



ARDENT CONSULTING ENGINEERS

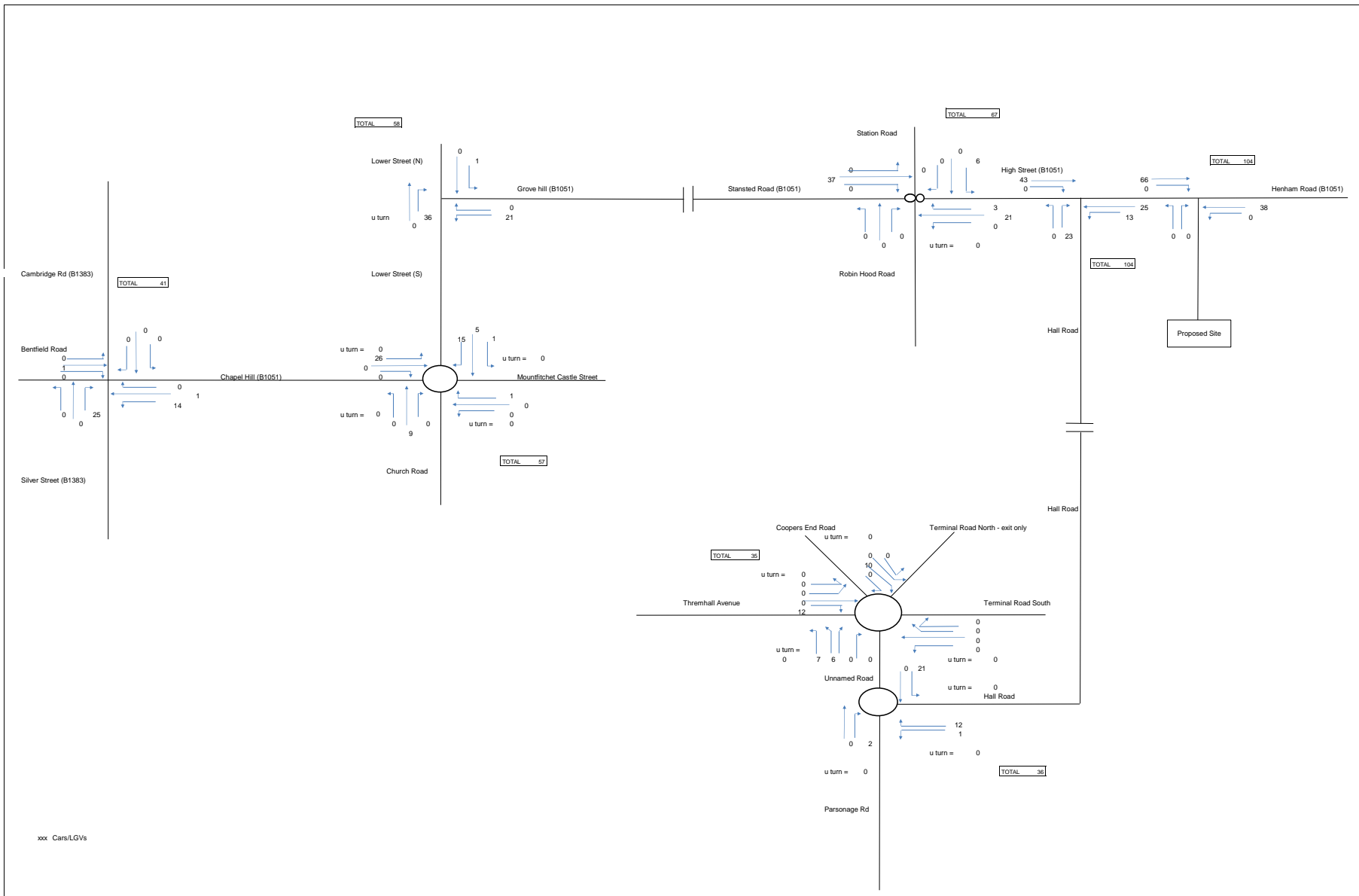
Third Floor, The Hallmark Building
52-56 Leadenhall Street
London EC3M 5JE

Client
Countryside
Date
February 2023

Job No
2008170

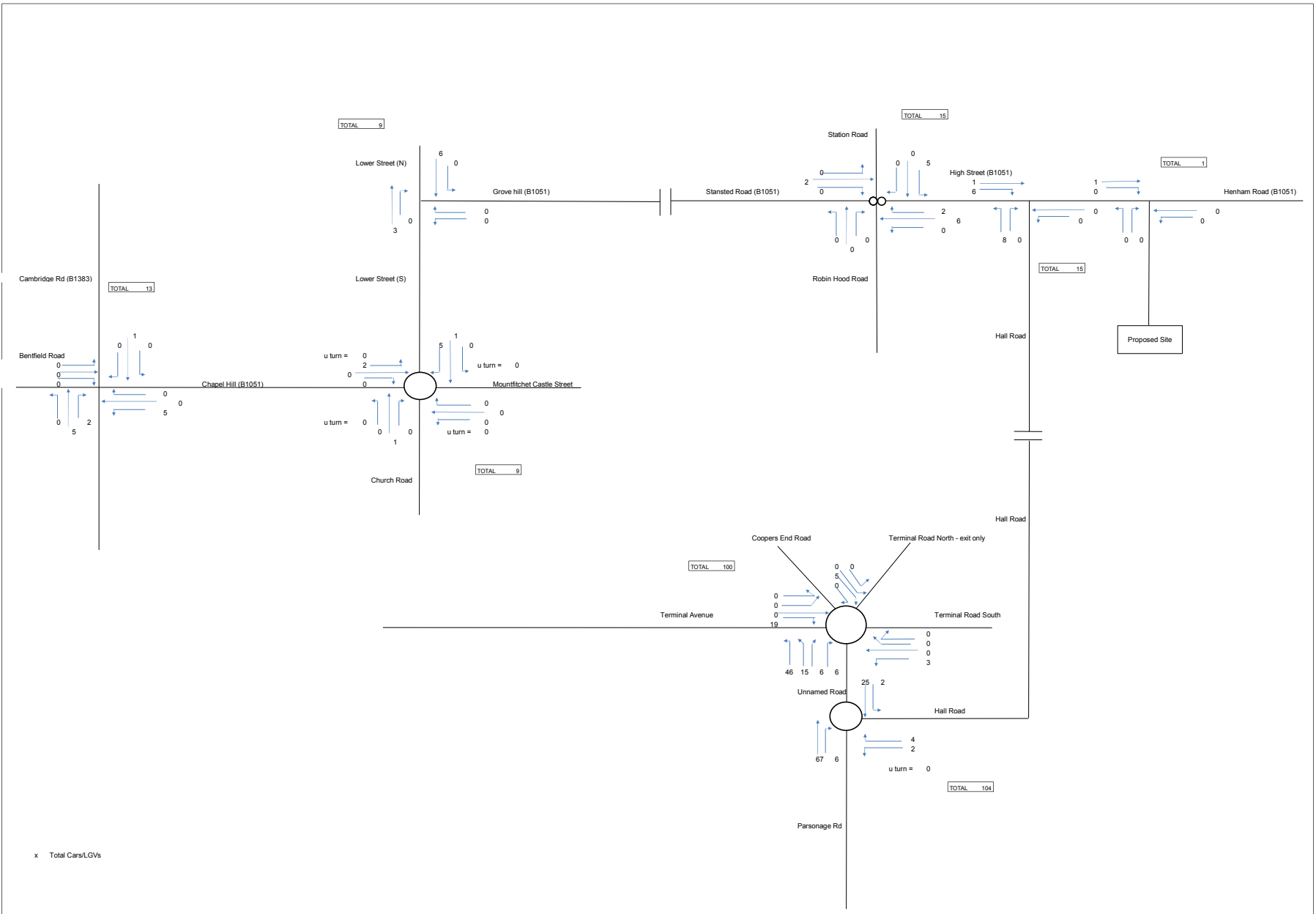
Project
Land South of Henham Road, Elsenham
Drawing No

Sensitivity Test (Land East of Station Road - 200 dwellings) - AM Peak - PINS WORK



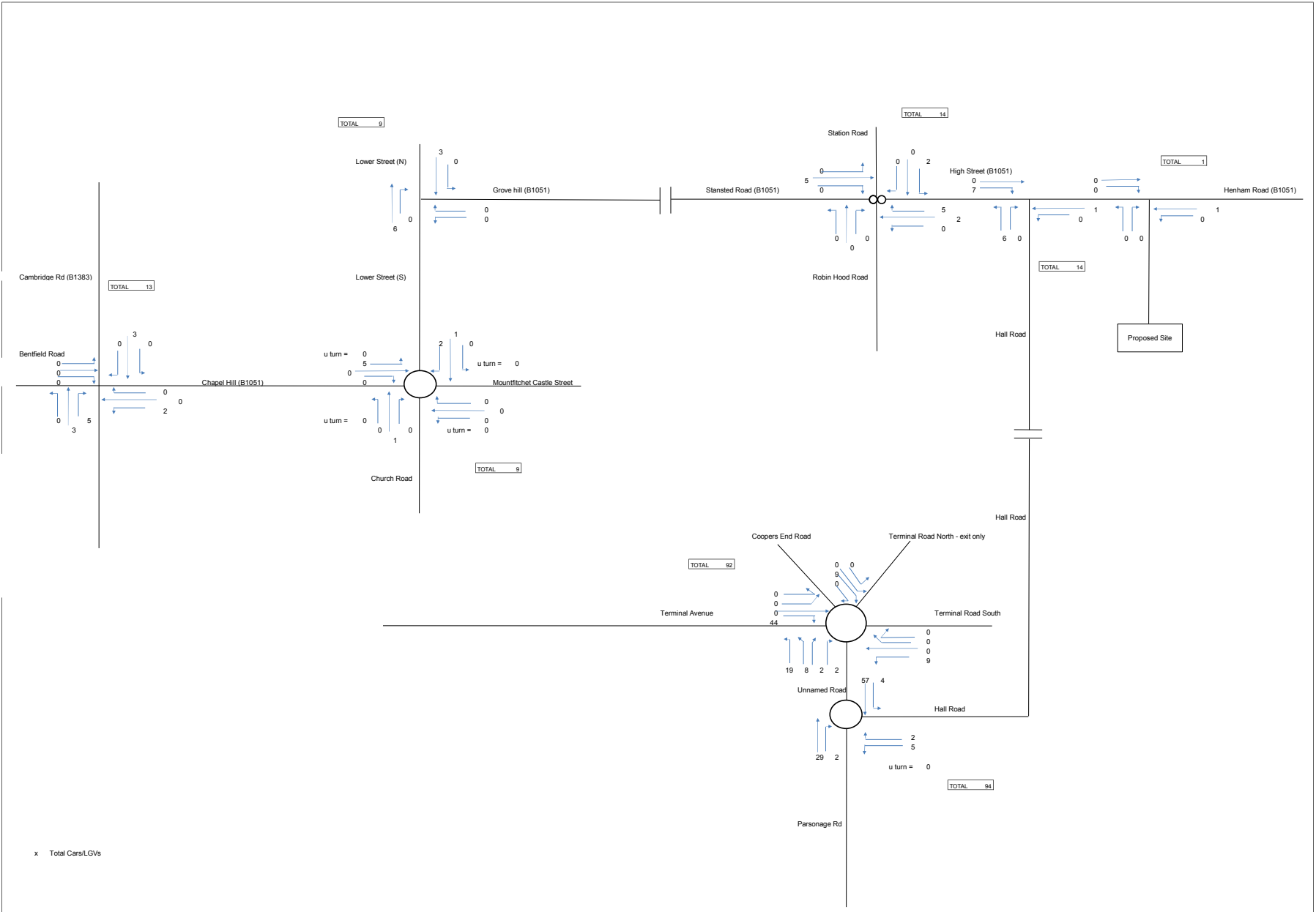
xxx Cars/LGVs

ARDENT CONSULTING ENGINEERS Third Floor, The Hallmark Building 52-56 Leadenhall Street London EC3M 5JF	Client Countryside	Project Land South of Henham Road, Elsenham
	Date February 2023	Job No 2008170
Sensitivity Test (Land East of Station Road - 200 dwellings) - PM Peak - PINS WORK		

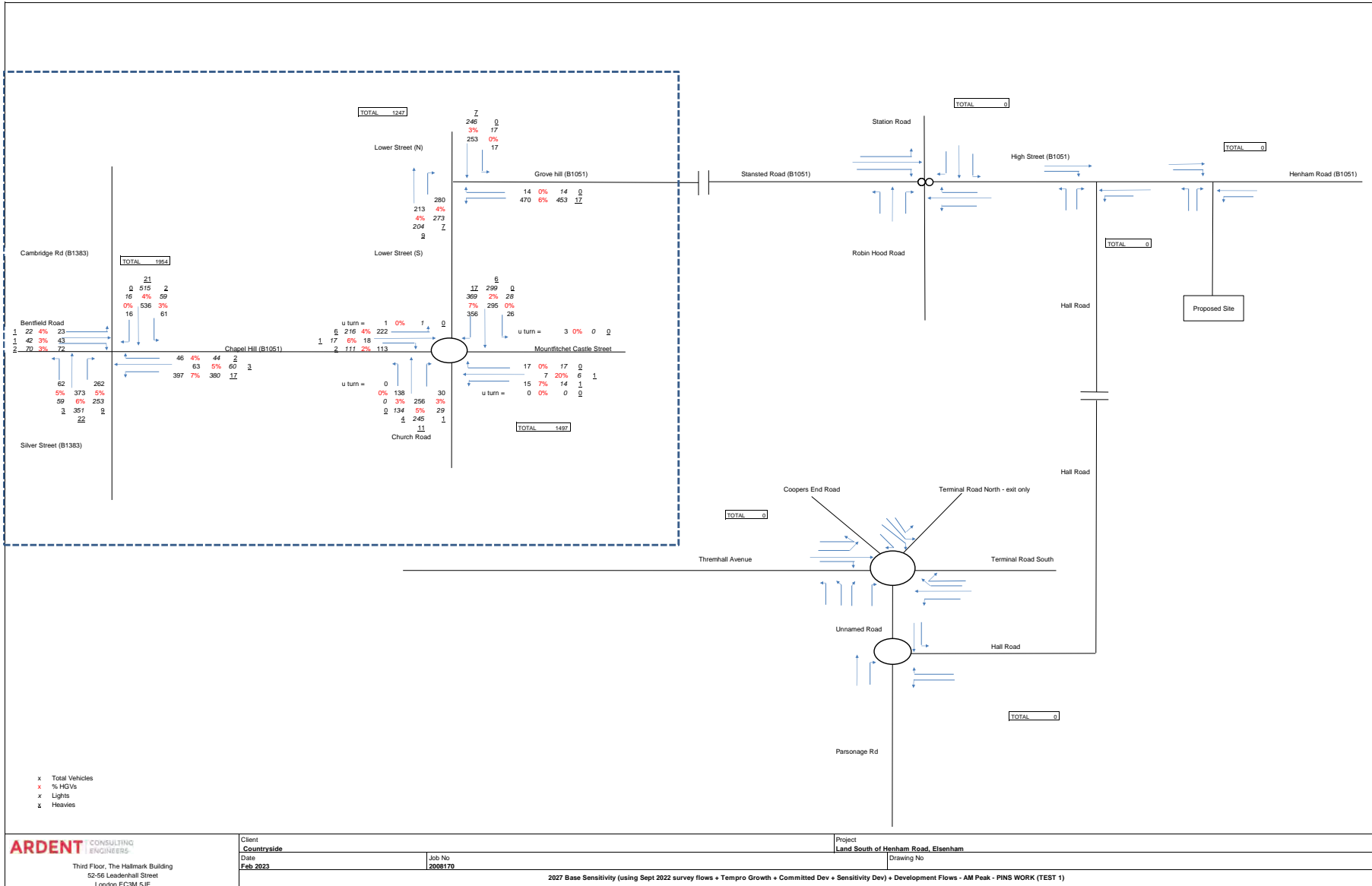


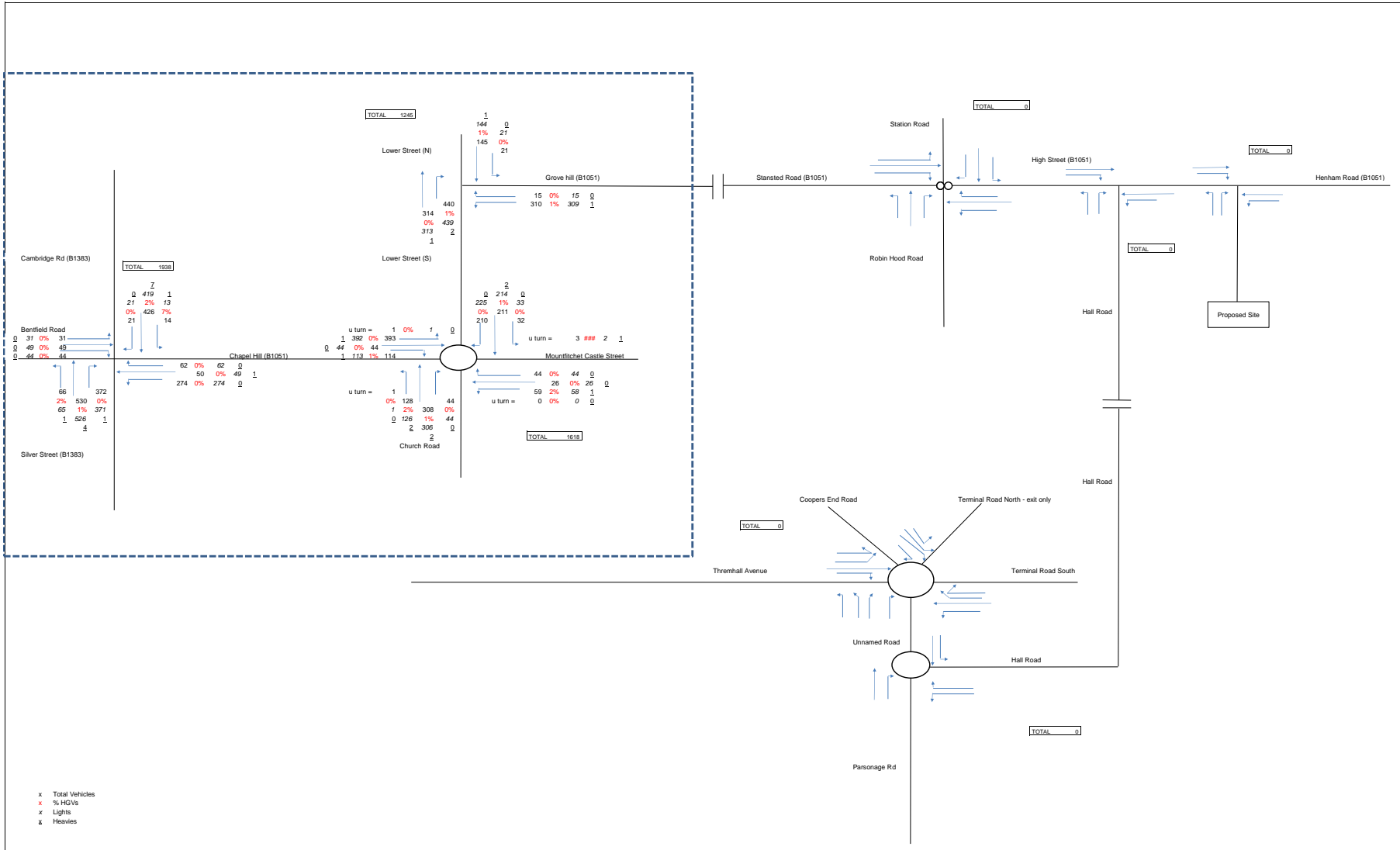
ARDENT CONSULTING ENGINEERS Third Floor, The Hallmark Building 52-96 Leaderhall Street London EC3M 8JF	Client	Countryside		Project	Land South of Henham Road, Eisenham
	Date	July 2022	Job No	2008170	Drawing No

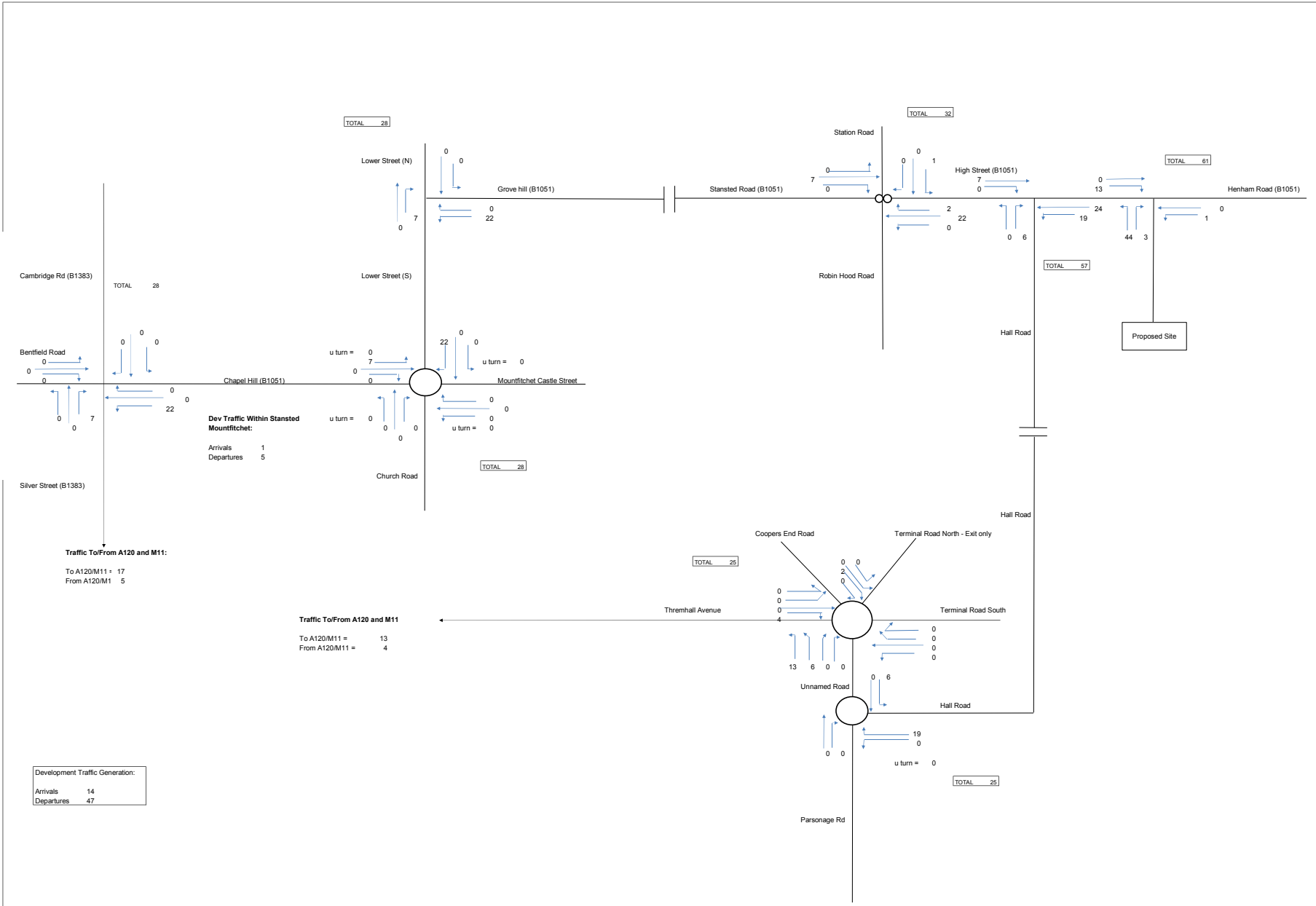
Total Sensitivity Committed Development Flows - AM Peak

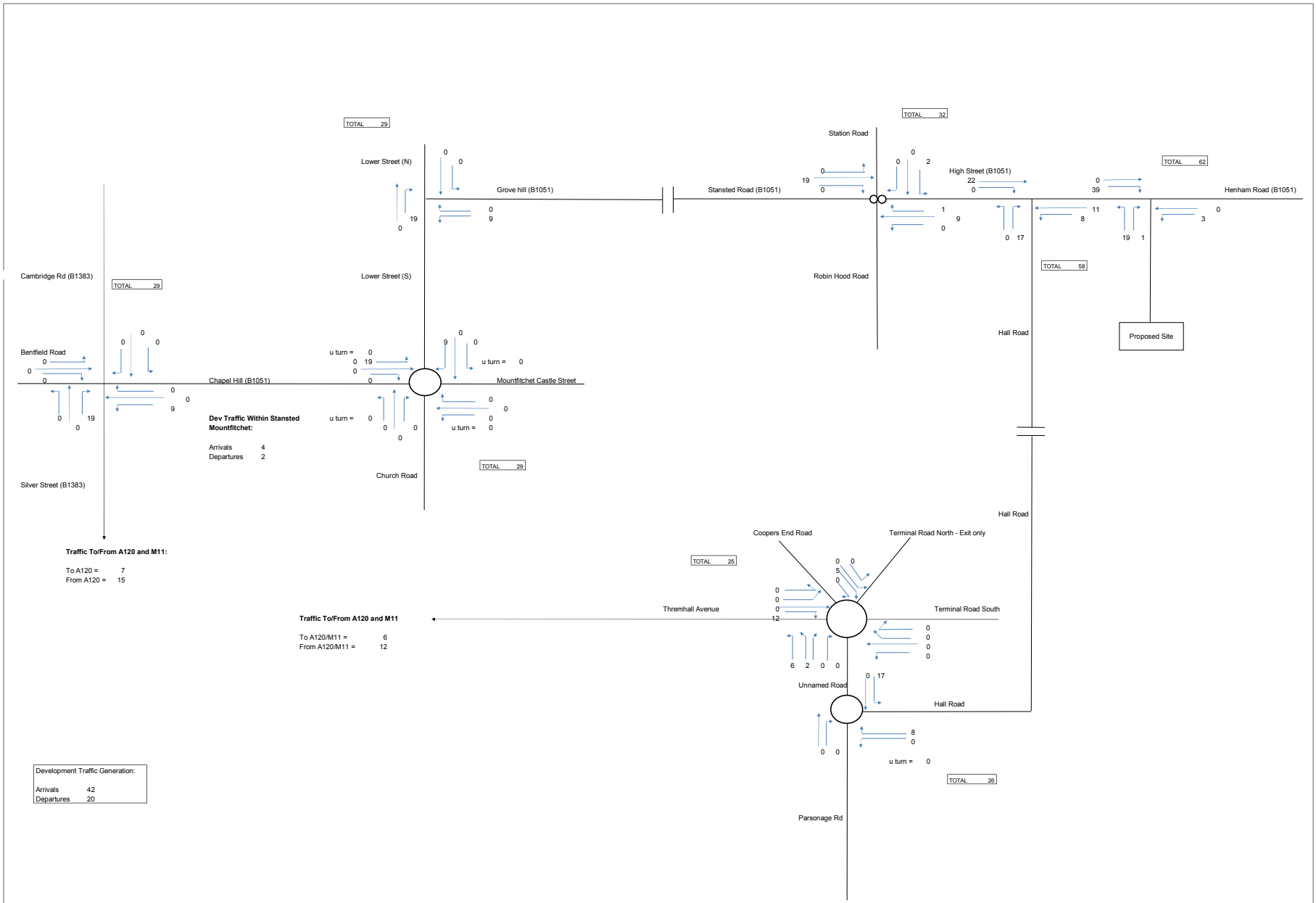


Appendix H





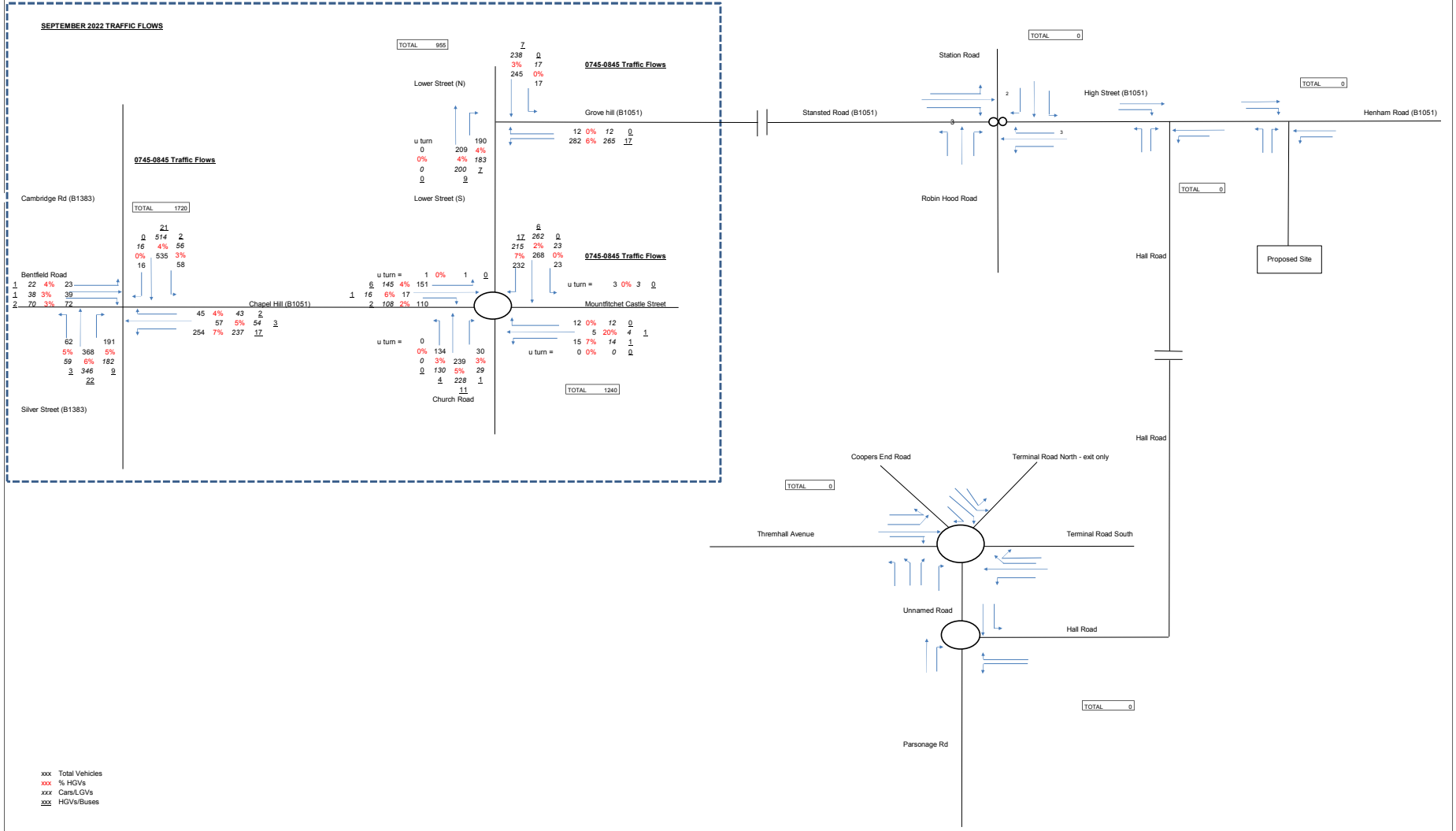




ARDENT CONSULTING ENGINEERS Third Floor, The Hallmark Building 52-56 Leadenhall Street London EC3M 5JE	Client Countryside	Project Land South of Henham Road, Eisenham
	Date July 2022	Drawing No
	Job No 2008170	Proposed Development Flows - PM Peak

Appendix I

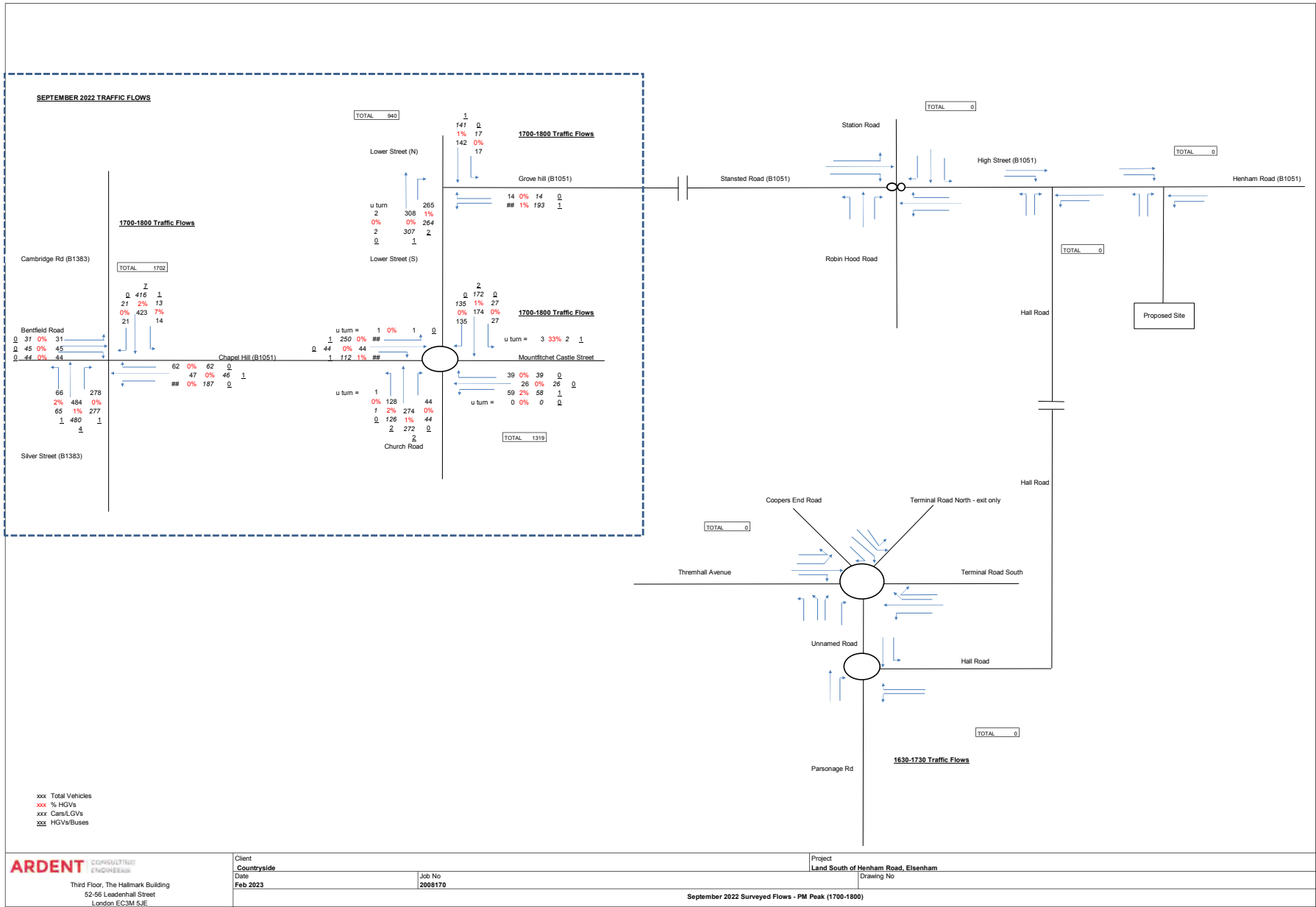
SEPTEMBER 2022 TRAFFIC FLOWS

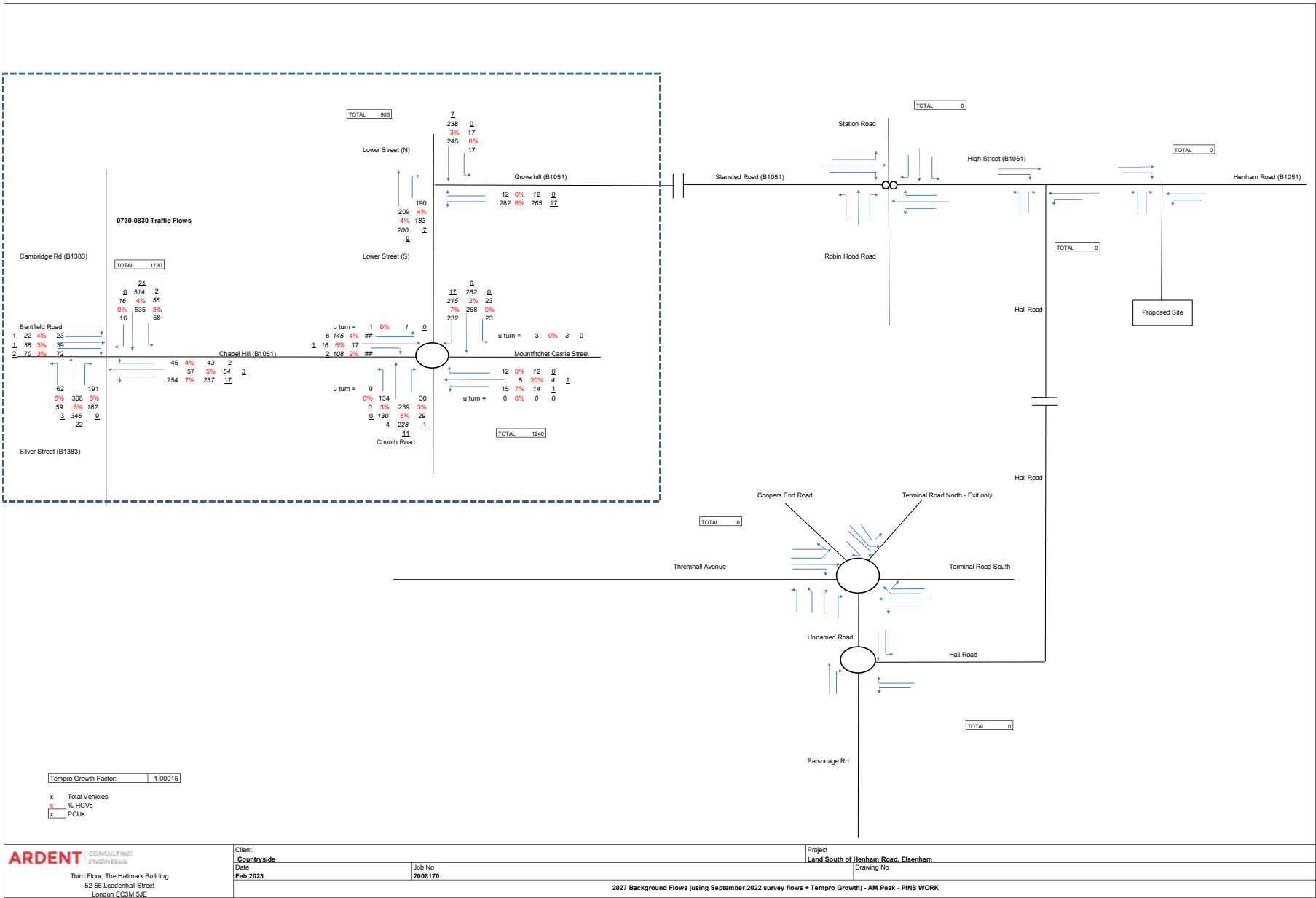


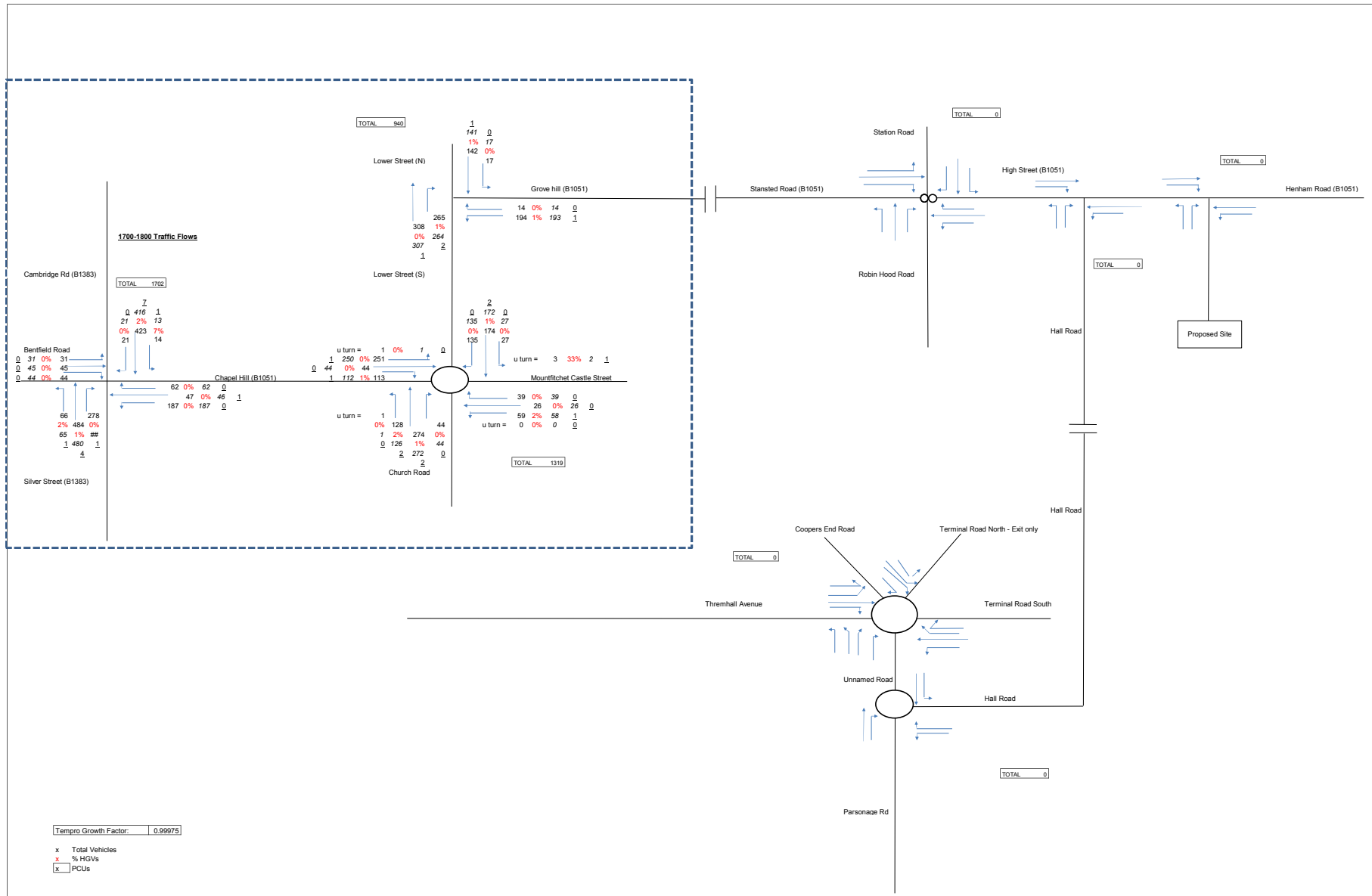
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Client: **Countryside**
Date: **Feb 2023**
Job No: **2008170**

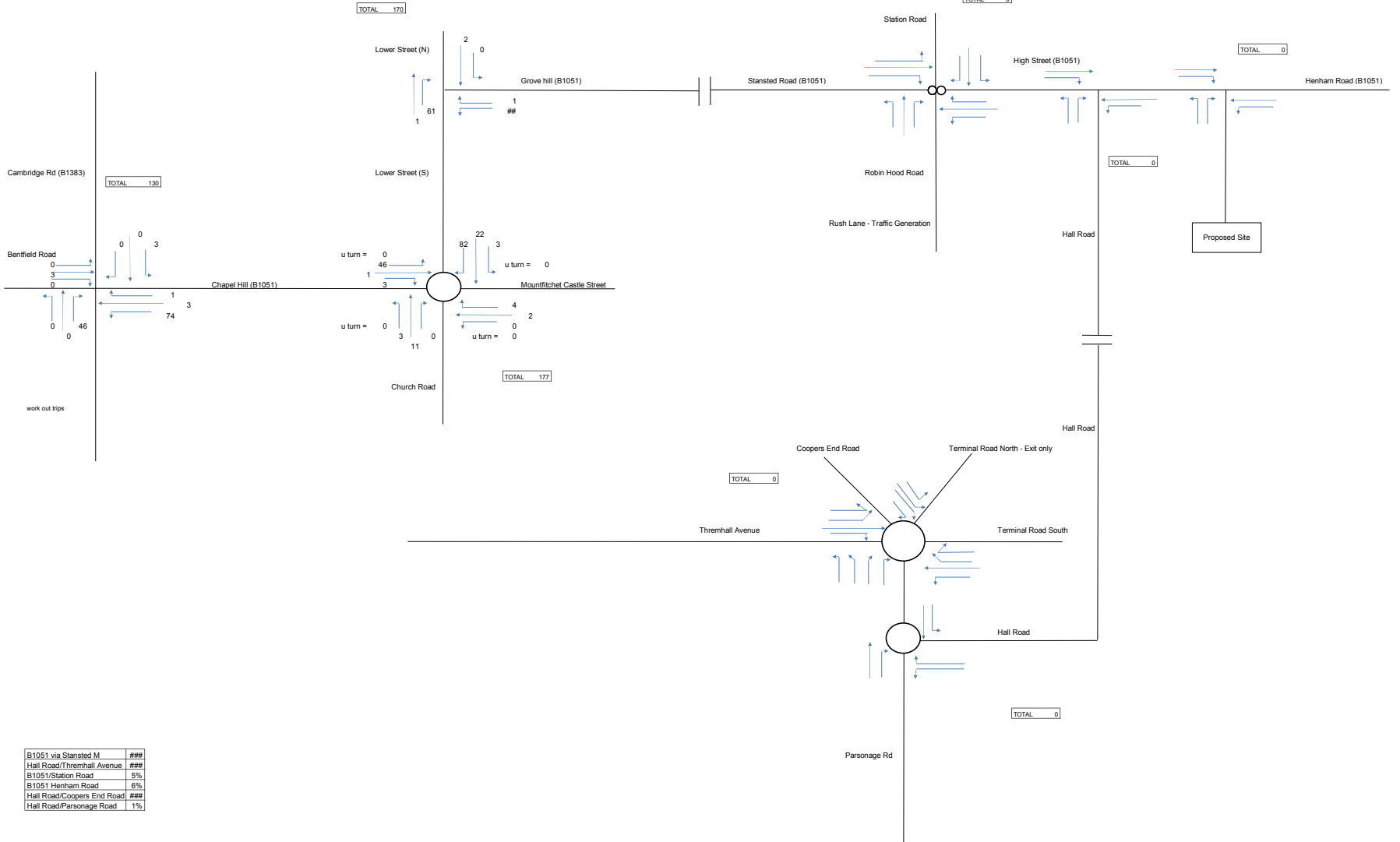
Project: **Land South of Henham Road, Elsenham**
Drawing No:
September 2022 Surveyed Flows - AM Peak (0745-0845)







Reduction Factor
0.85



B1051 via Stansted M	###
Hall Road/Thremhall Avenue	###
B1051/Station Road	5%
B1051 Henham Road	6%
Hall Road/Coopers End Road	###
Hall Road/Parsonage Road	1%

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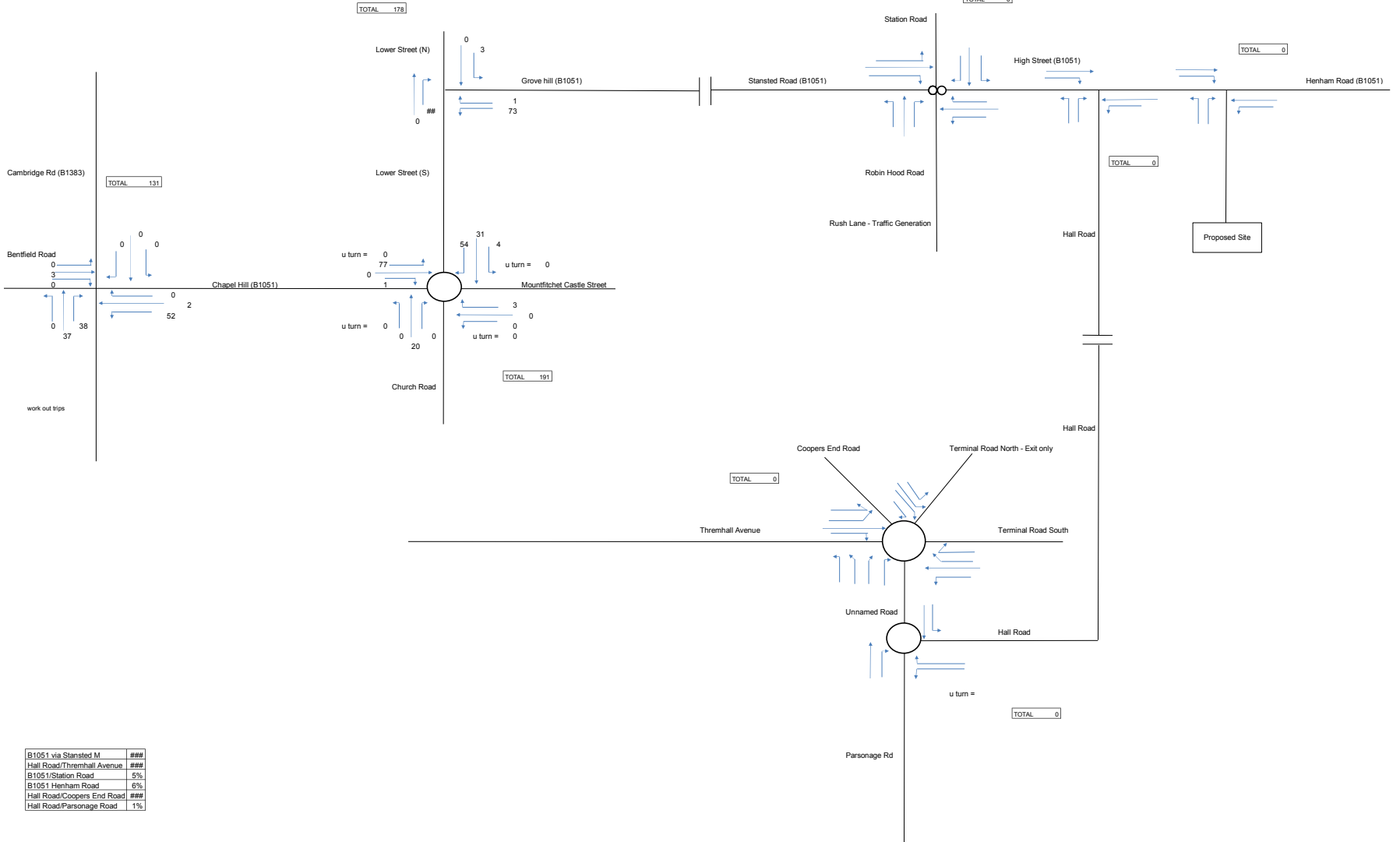
Client
Countryside
Date
July 2022

Job No
2008170

Project
Land South of Henham Road, Eisenham
Drawing No

Total Committed Development Flows (2022) with reduction factor - AM Peak

Reduction Factor
0.85



B1051 via Stansted M	###
Hall Road/Thremhall Avenue	###
B1051/Station Road	5%
B1051/Henham Road	6%
Hall Road/Coopers End Road	###
Hall Road/Parsonage Road	1%

ARDENT CONSULTING ENGINEERS

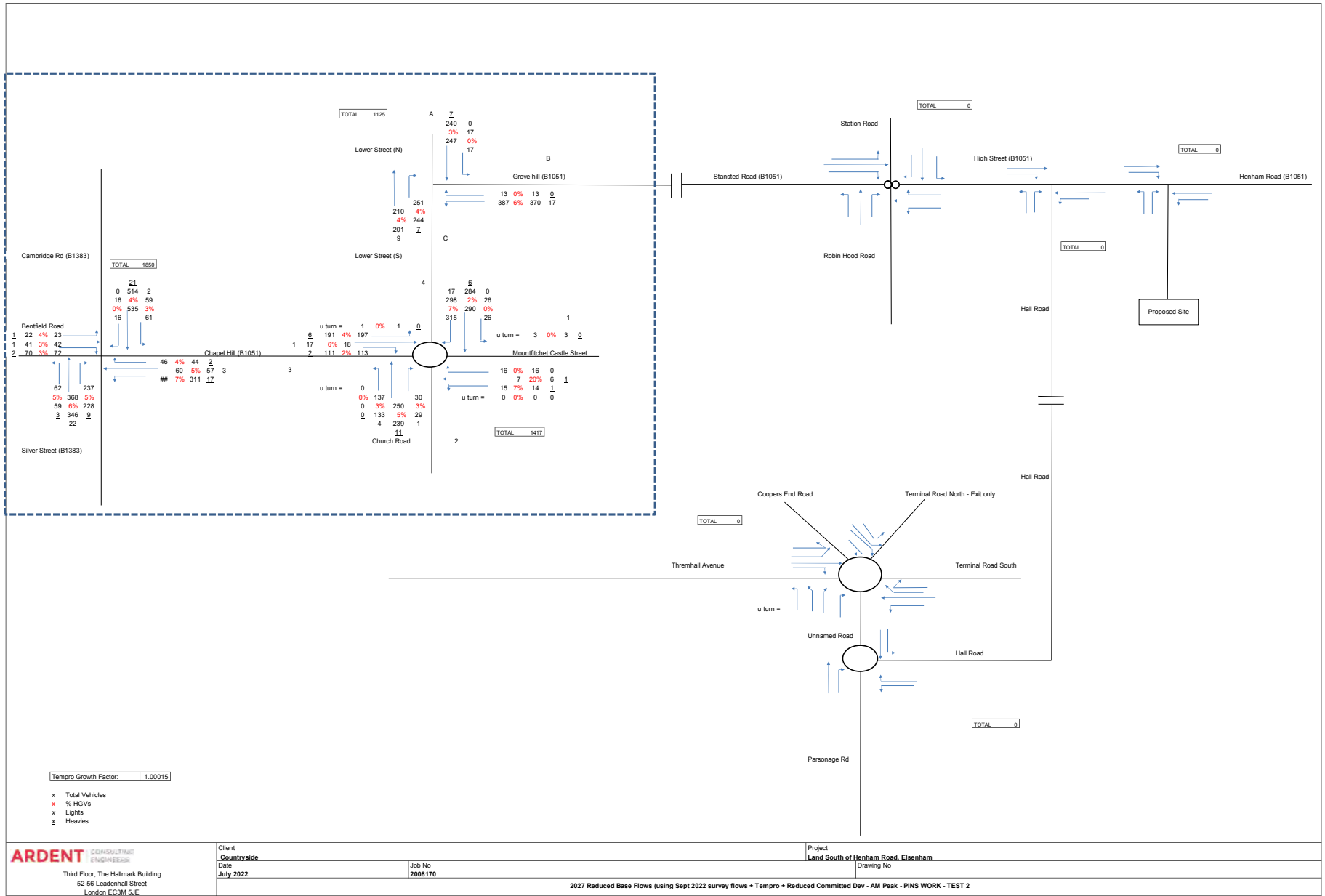
Third Floor, The Hallmark Building
52-56 Leadenhall Street
London EC3N 5JE

Client
Countryside
Date
July 2022

Job No
2008170

Project
Land South of Henham Road, Elsenham
Drawing No

Total Committed Development Flows (2022) with reduction factor - PM Peak



TOTAL 1129

TOTAL 1850

TOTAL 1417

TOTAL 0

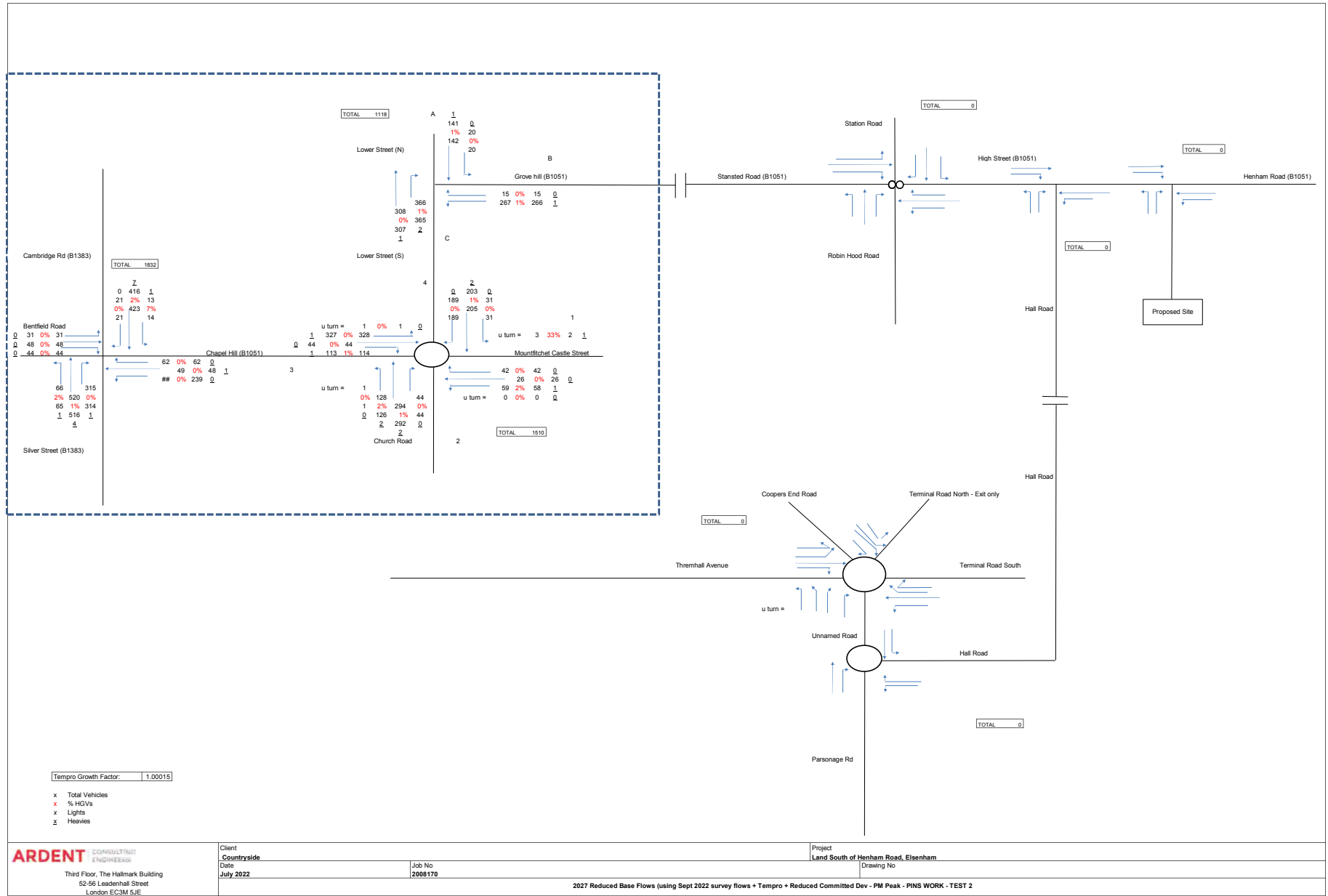
TOTAL 0

TOTAL 0

TOTAL 0

TOTAL 0

ARDENT CONSULTING ENGINEERS
 Third Floor, The Hallmark Building
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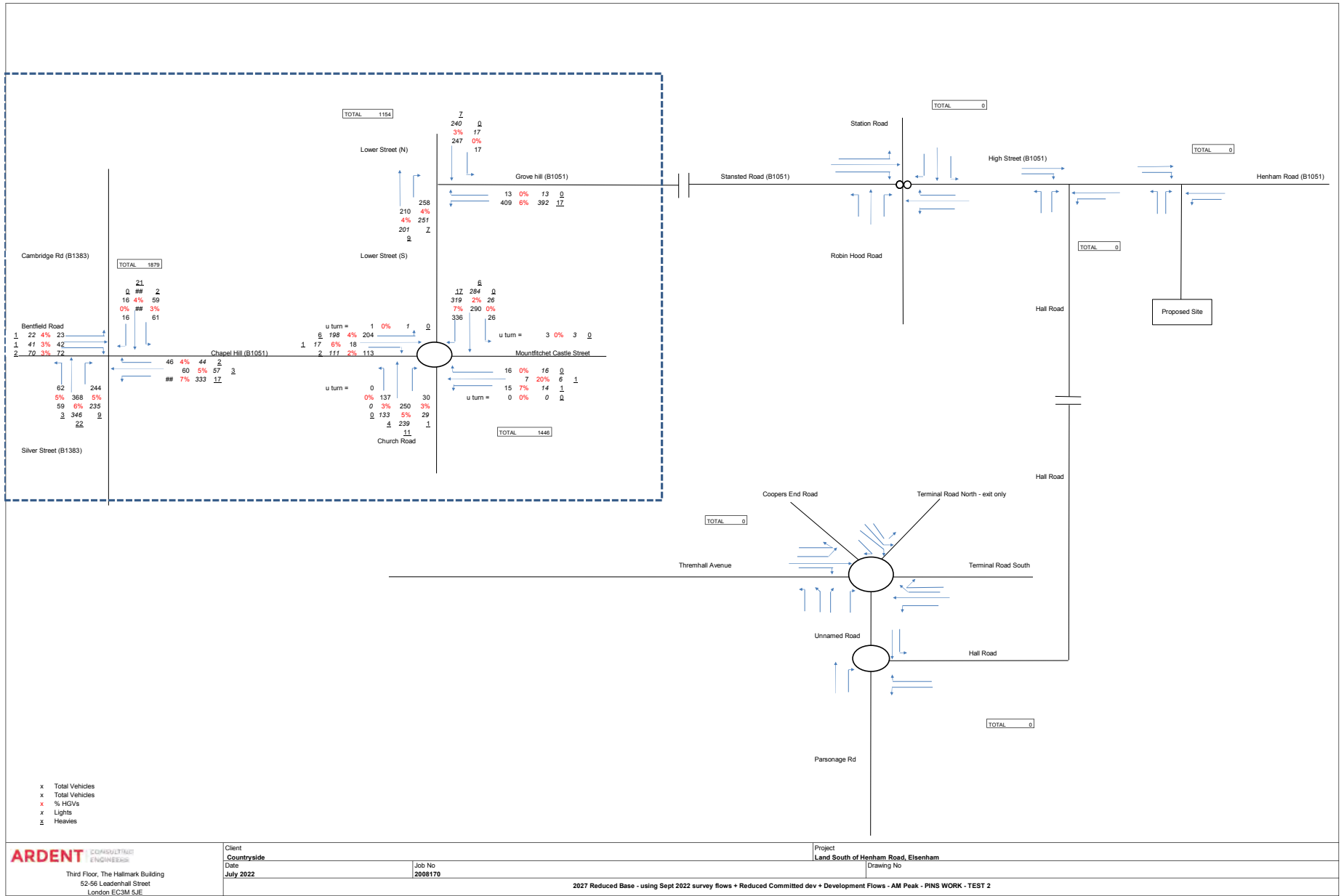
ARDENT CONSULTING ENGINEERS
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 London EC3M 8JF

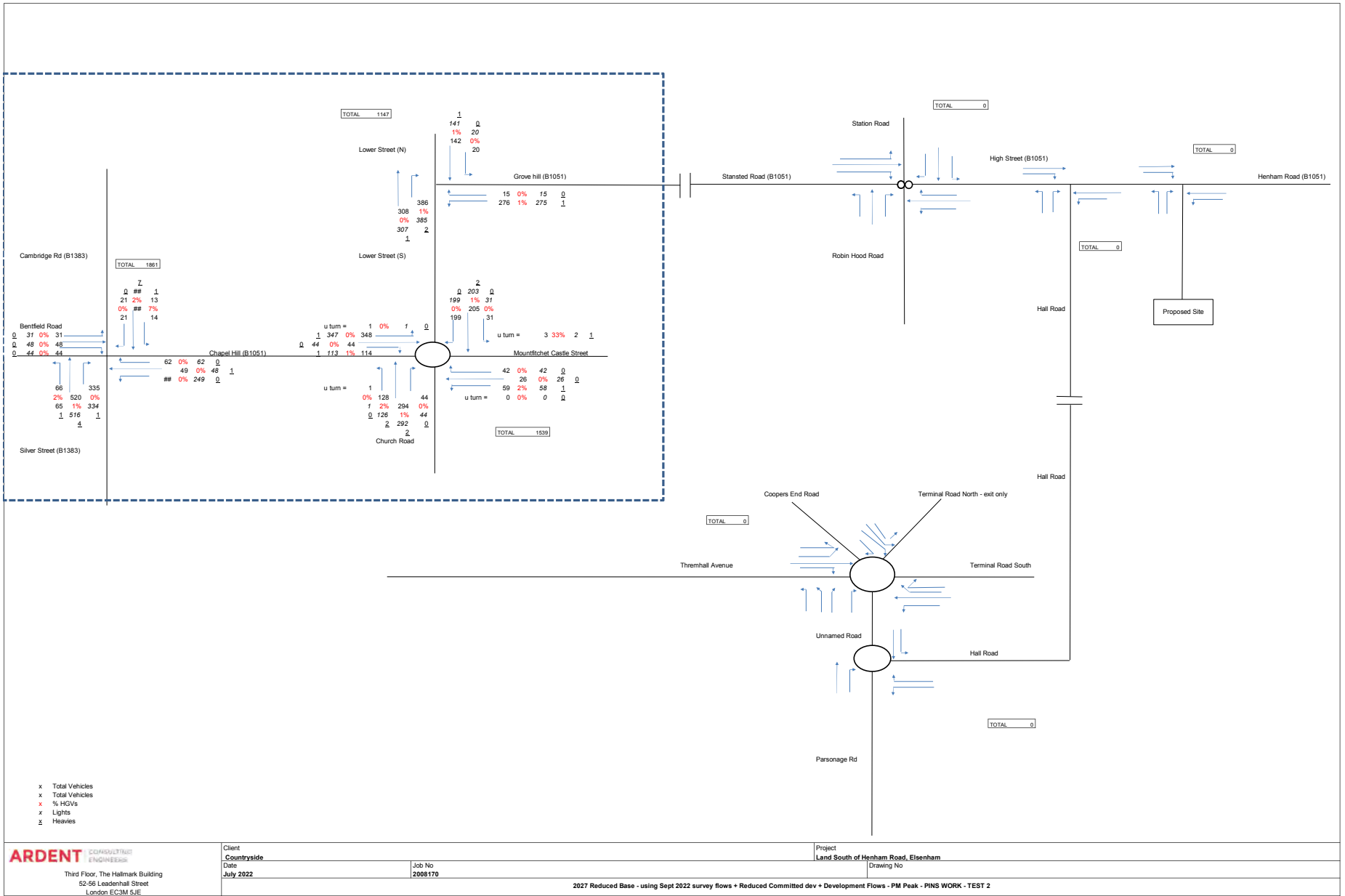
Client: Countryside
 Date: July 2022
 Job No: 2008170

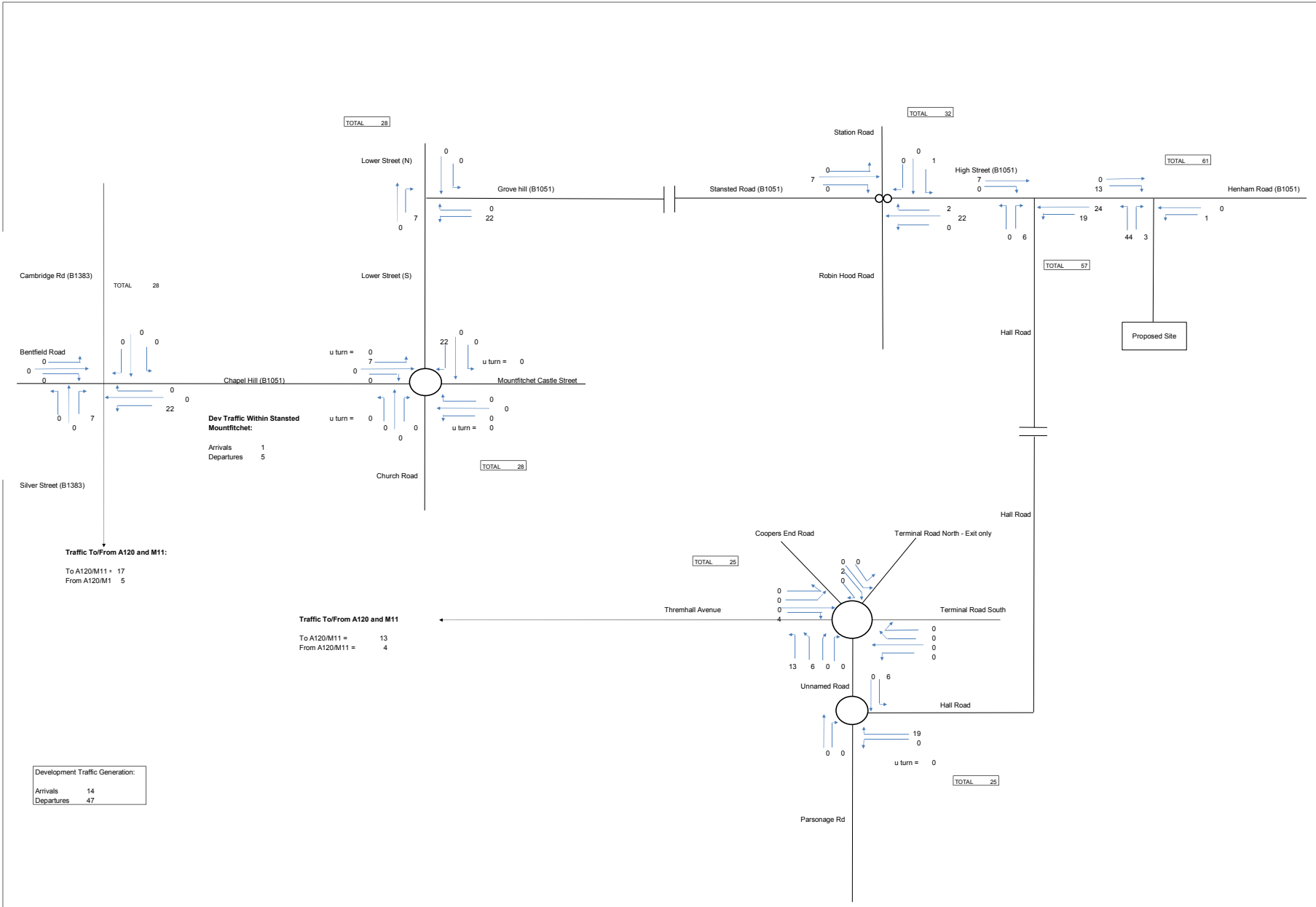
Project: Land South of Henham Road, Elsenham
 Drawing No:

2027 Reduced Base Flows (using Sept 2022 survey flows + Tempo + Reduced Committed Dev - PM Peak - PINS WORK - TEST 2)

Appendix J







Dev Traffic Within Stansted Mountfitchet:

Arrivals 1
Departures 5

Traffic To/From A120 and M11:

To A120/M11 = 17
From A120/M11 = 5

Traffic To/From A120 and M11

To A120/M11 = 13
From A120/M11 = 4

Development Traffic Generation:	
Arrivals	14
Departures	47

ARDENT CONSULTING ENGINEERS

Third Floor, The Hallmark Building
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London EC3M 5JF

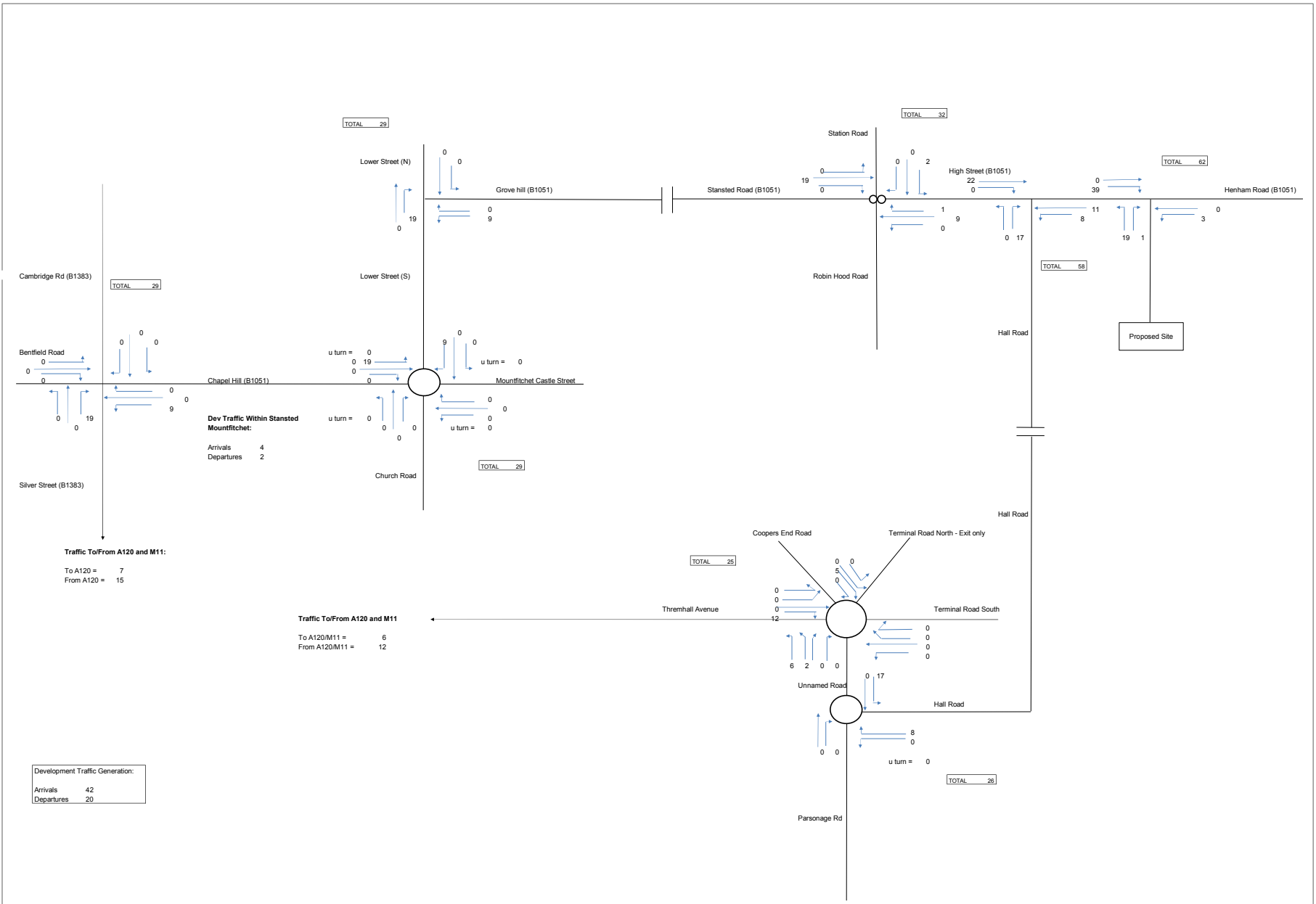
Client
Countryside
Date
July 2022

Job No
2008170

Project
Land South of Henham Road, Eisenham

Drawing No

Proposed Development Flows - AM Peak



Traffic To/From A120 and M11:
 To A120 = 7
 From A120 = 15

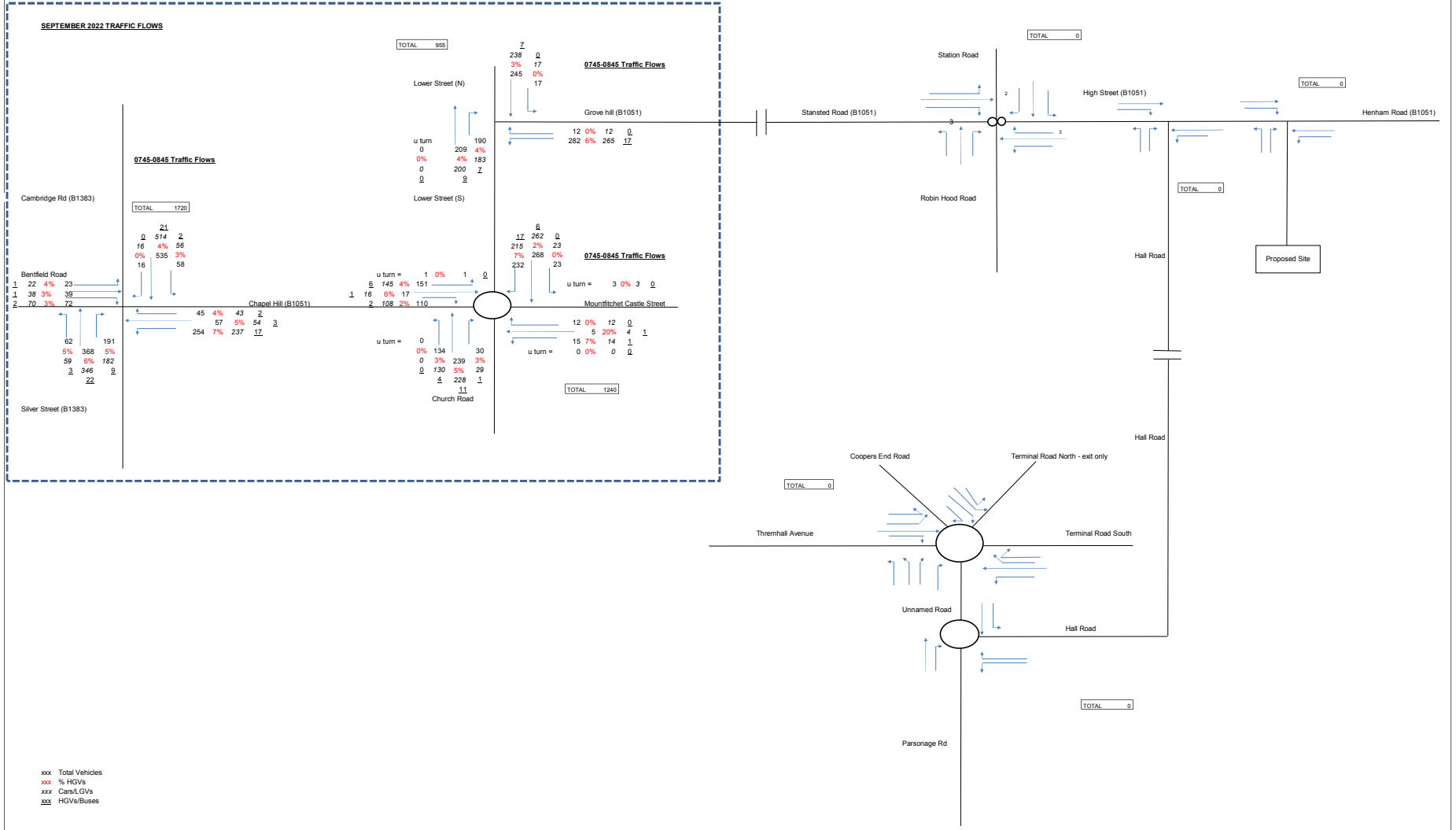
Dev Traffic Within Stansted
 Mounffichet:
 Arrivals 4
 Departures 2

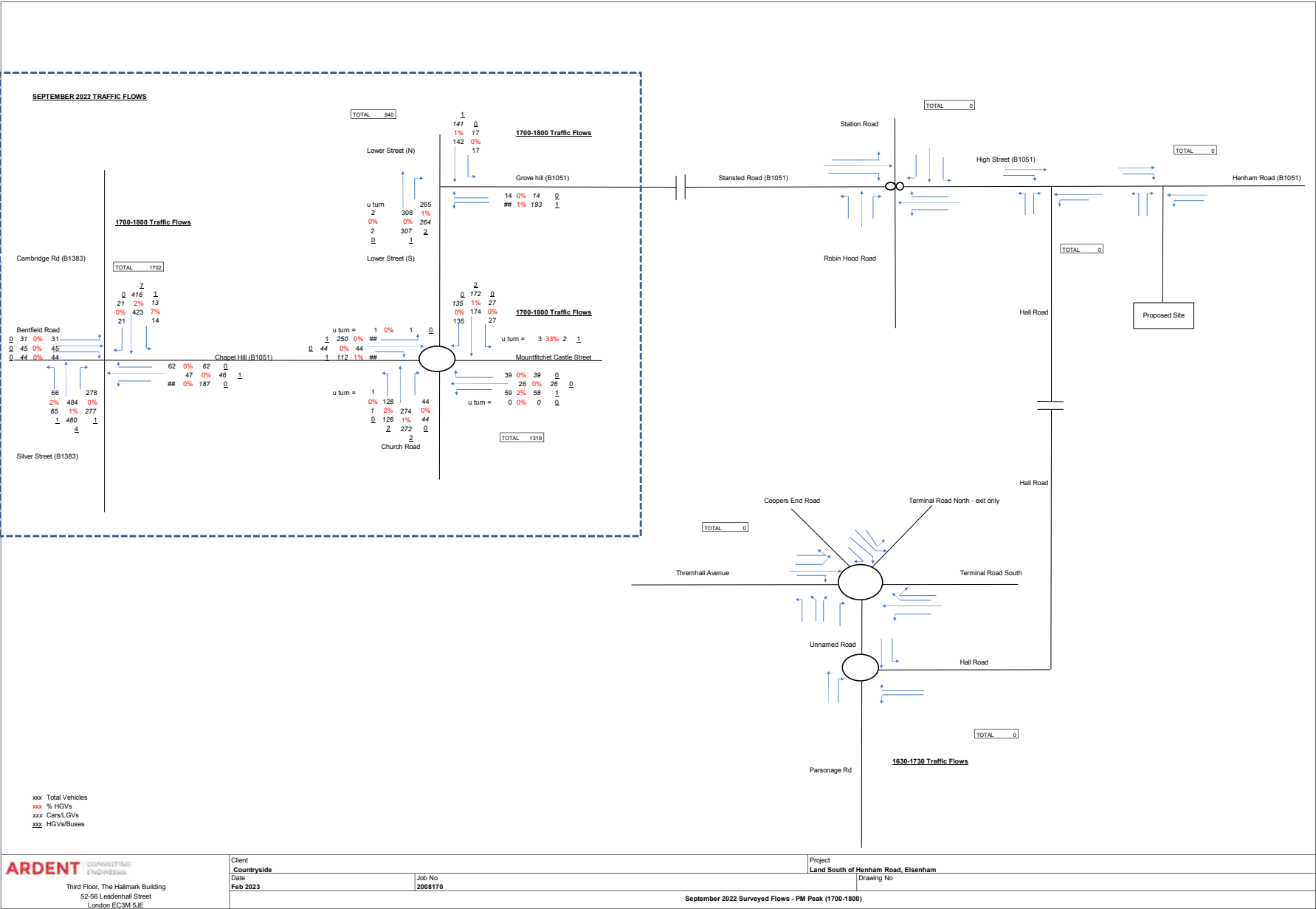
Traffic To/From A120 and M11
 To A120/M11 = 6
 From A120/M11 = 12

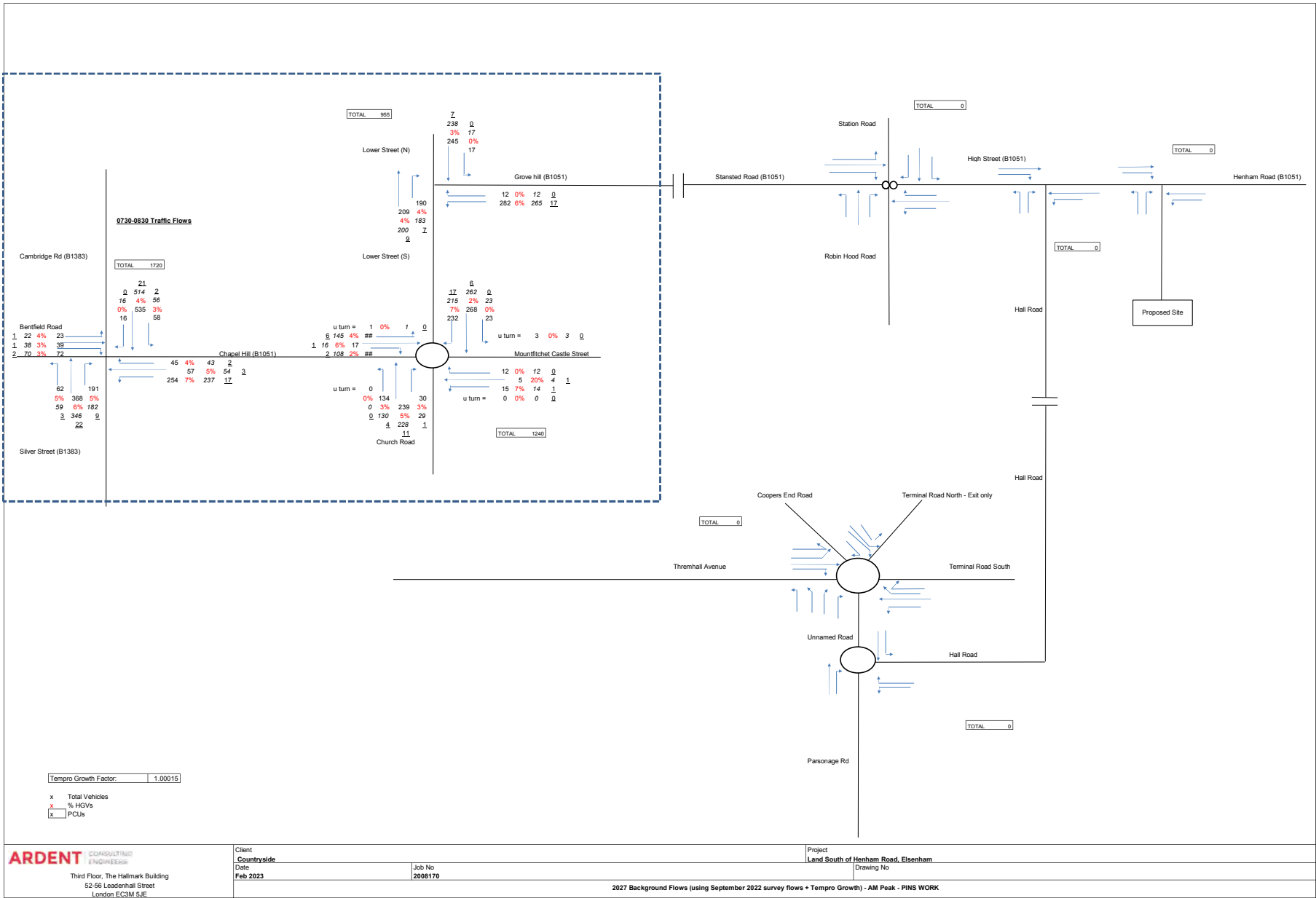
Development Traffic Generation:
 Arrivals 42
 Departures 20

Appendix K

SEPTEMBER 2022 TRAFFIC FLOWS



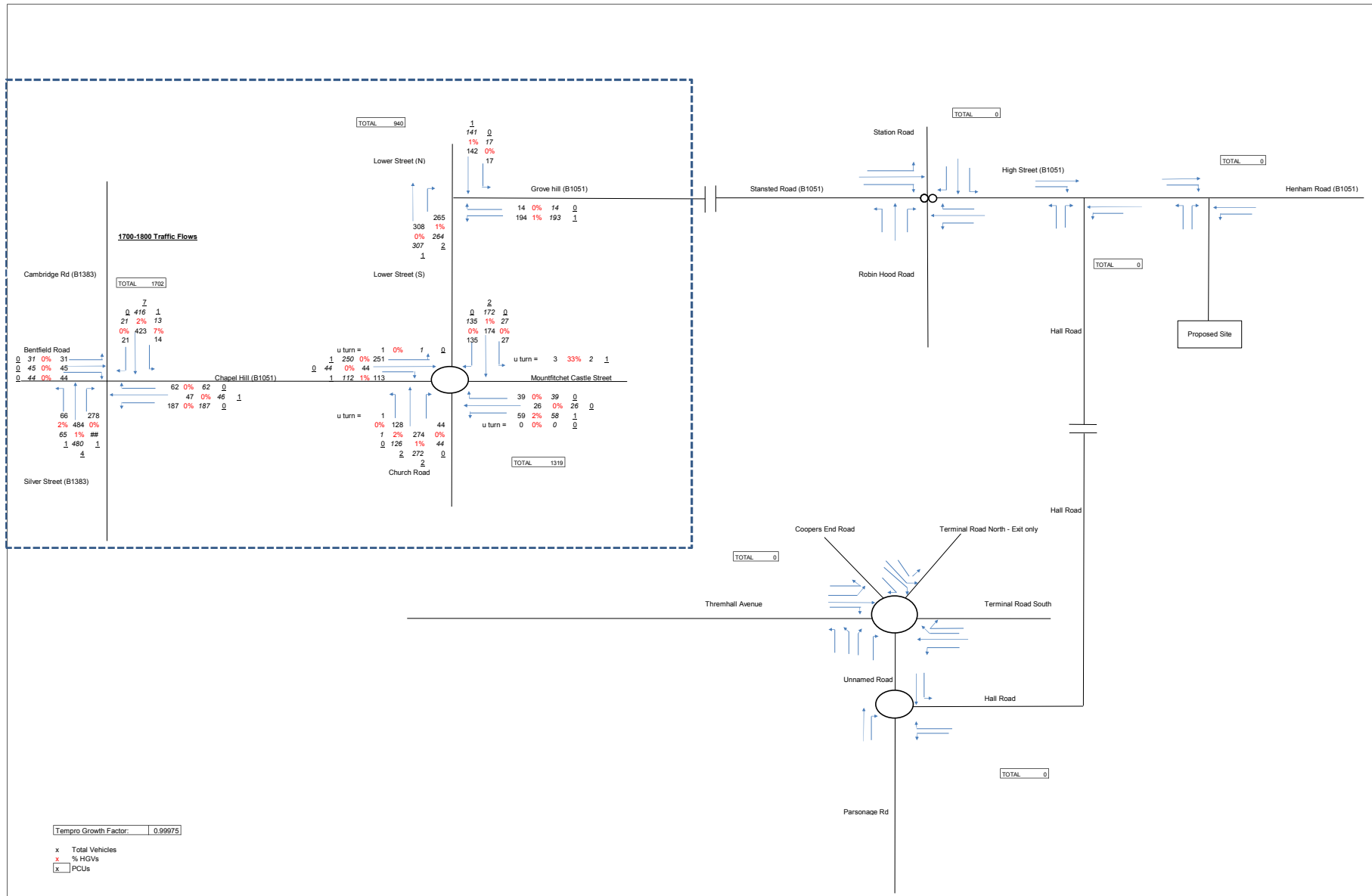




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Client: **Countryside**
 Date: **Feb 2023**
 Job No: **2008170**

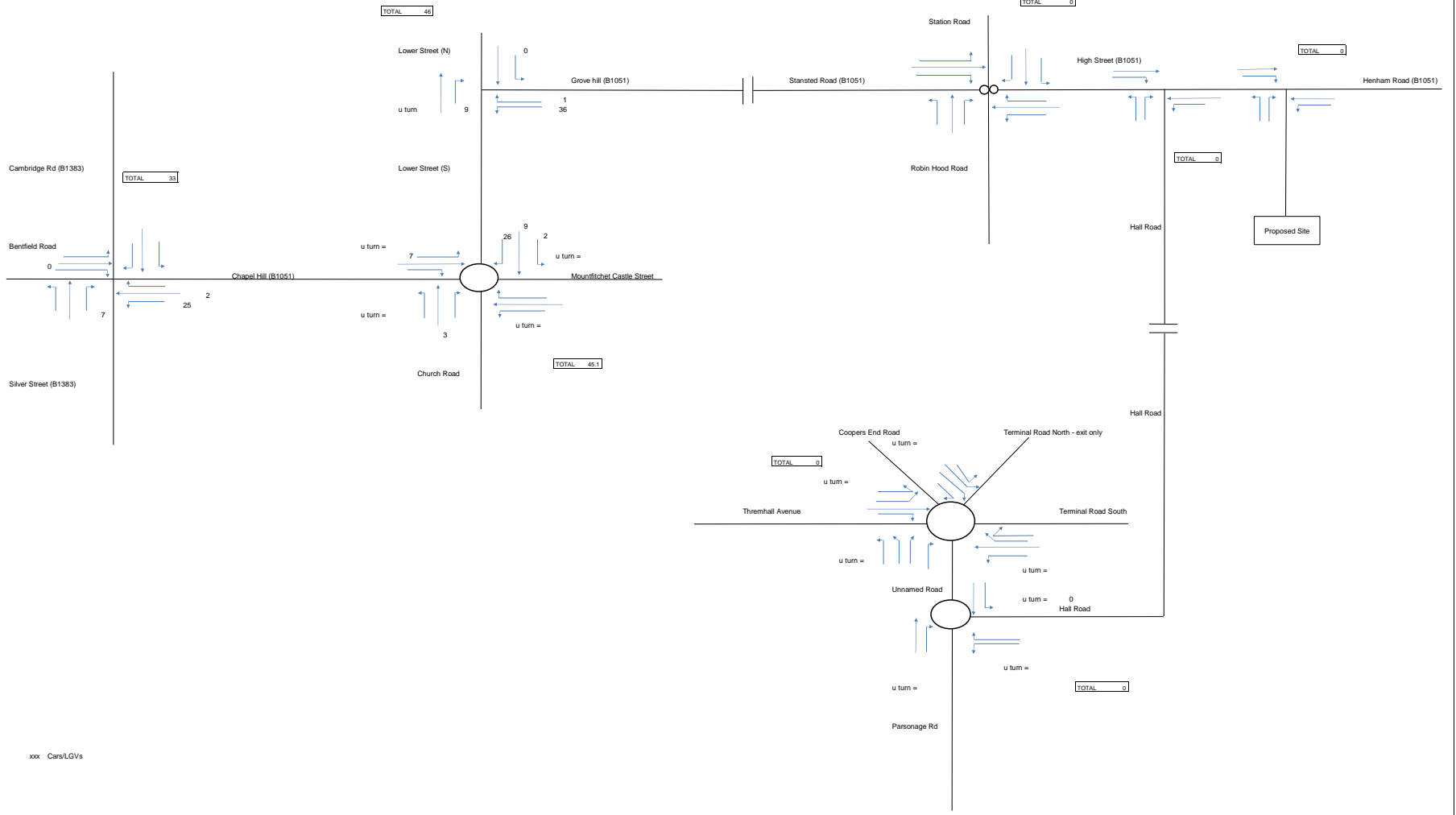
Project: **Land South of Henham Road, Elnham**
 Drawing No:



Tempo Growth Factor: 0.99975

x Total Vehicles
 x % HGVs
 x PCUs

Reduction Factor
0.85



xxx Cars/LGVs

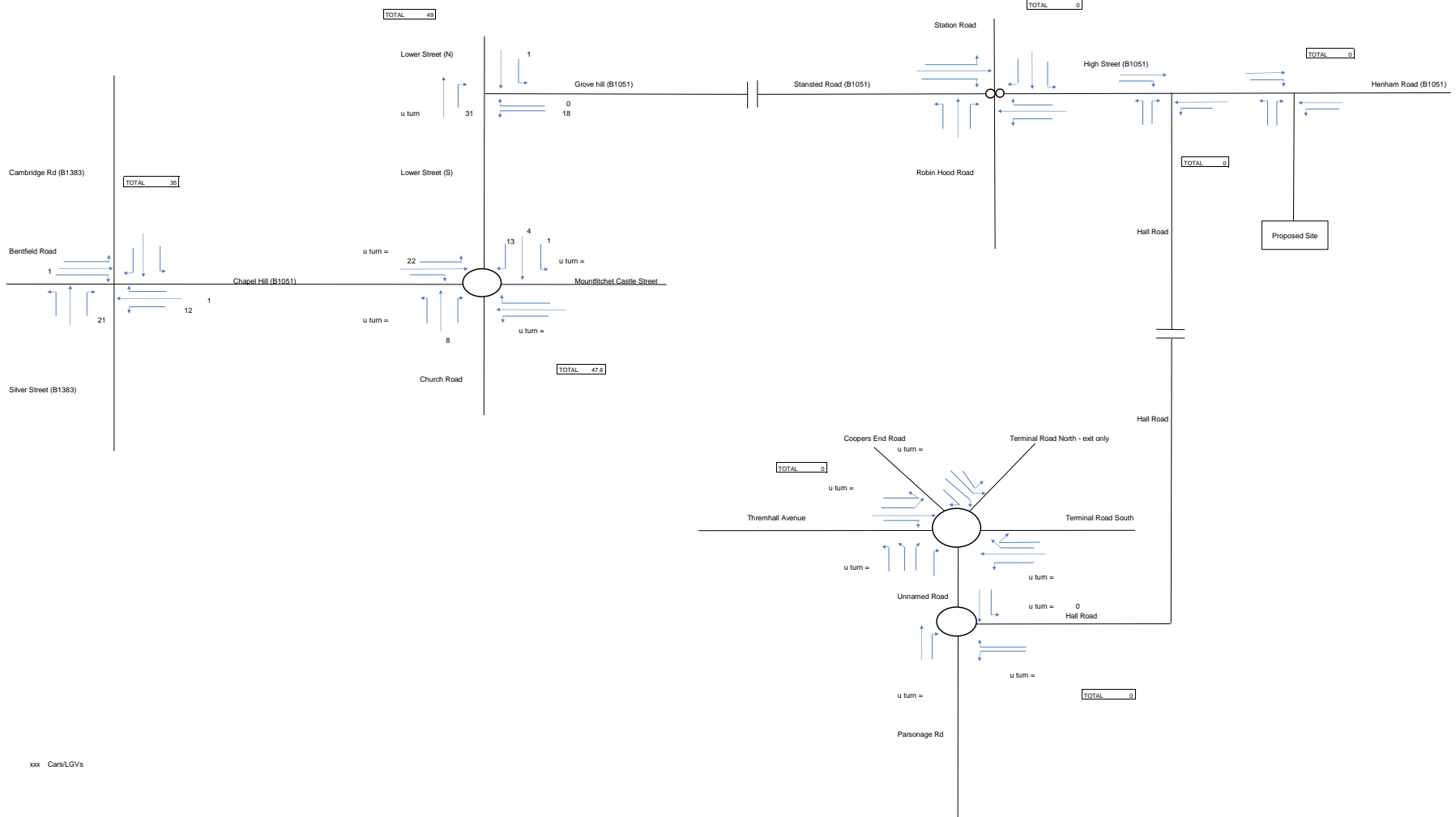
ARDENT CONSULTING ENGINEERS
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Client
Countryside
Date
Feb 2023
Job No
2008170

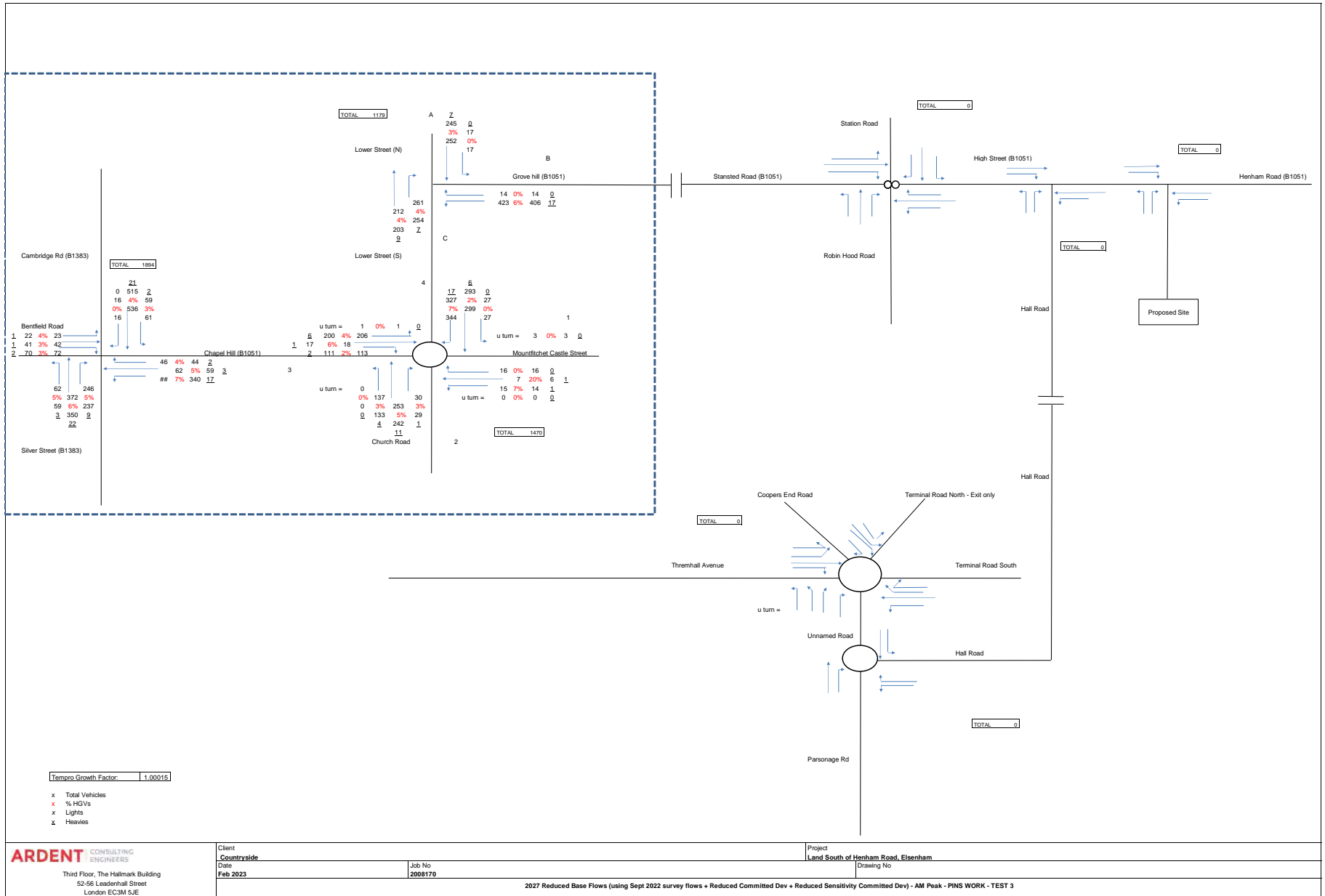
Project
Land South of Henham Road, Elsenham
Drawing No

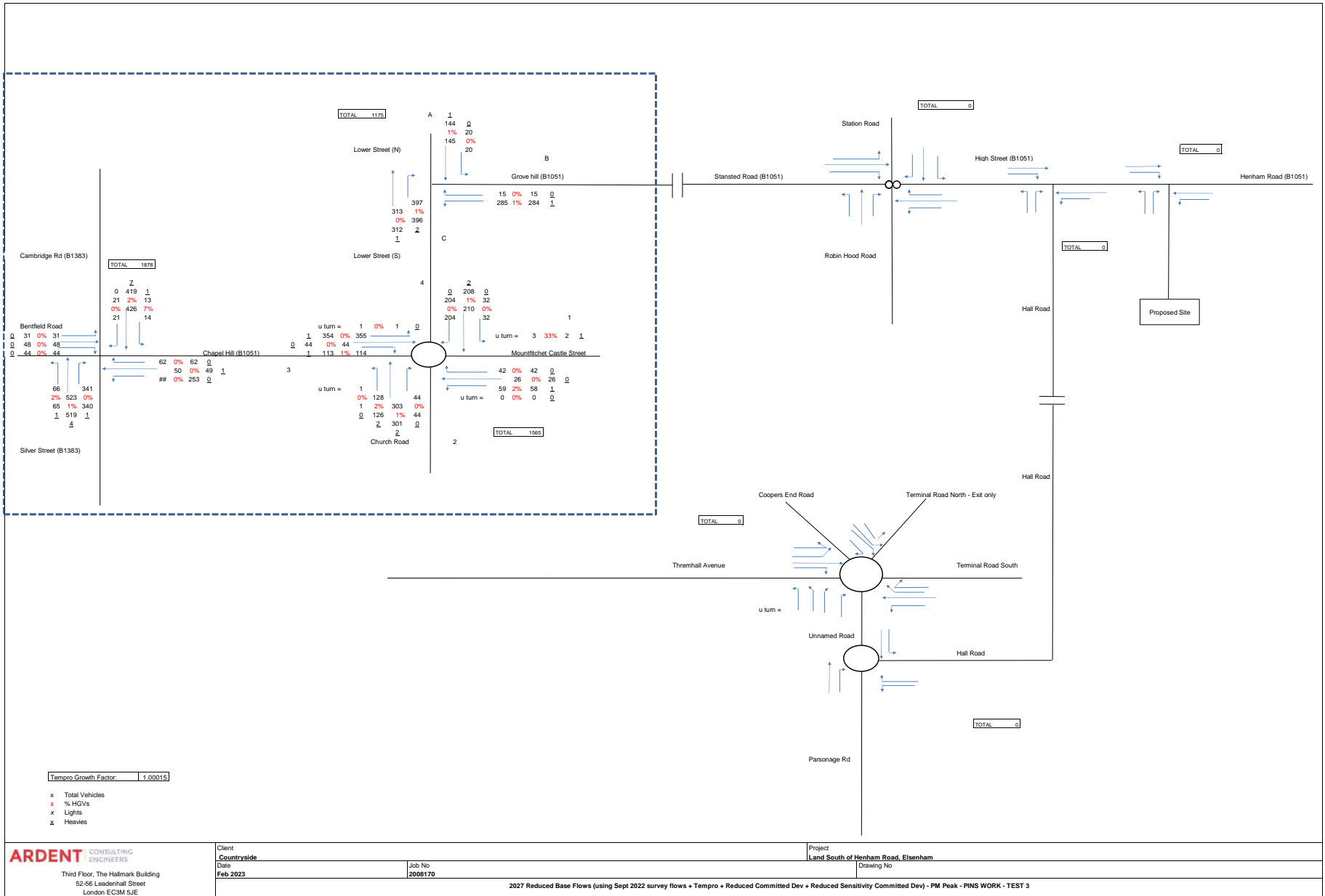
Land East of Station Road - 200 dwellings - AM Peak - PINS WORK - TEST 3

Reduction Factor
0.85

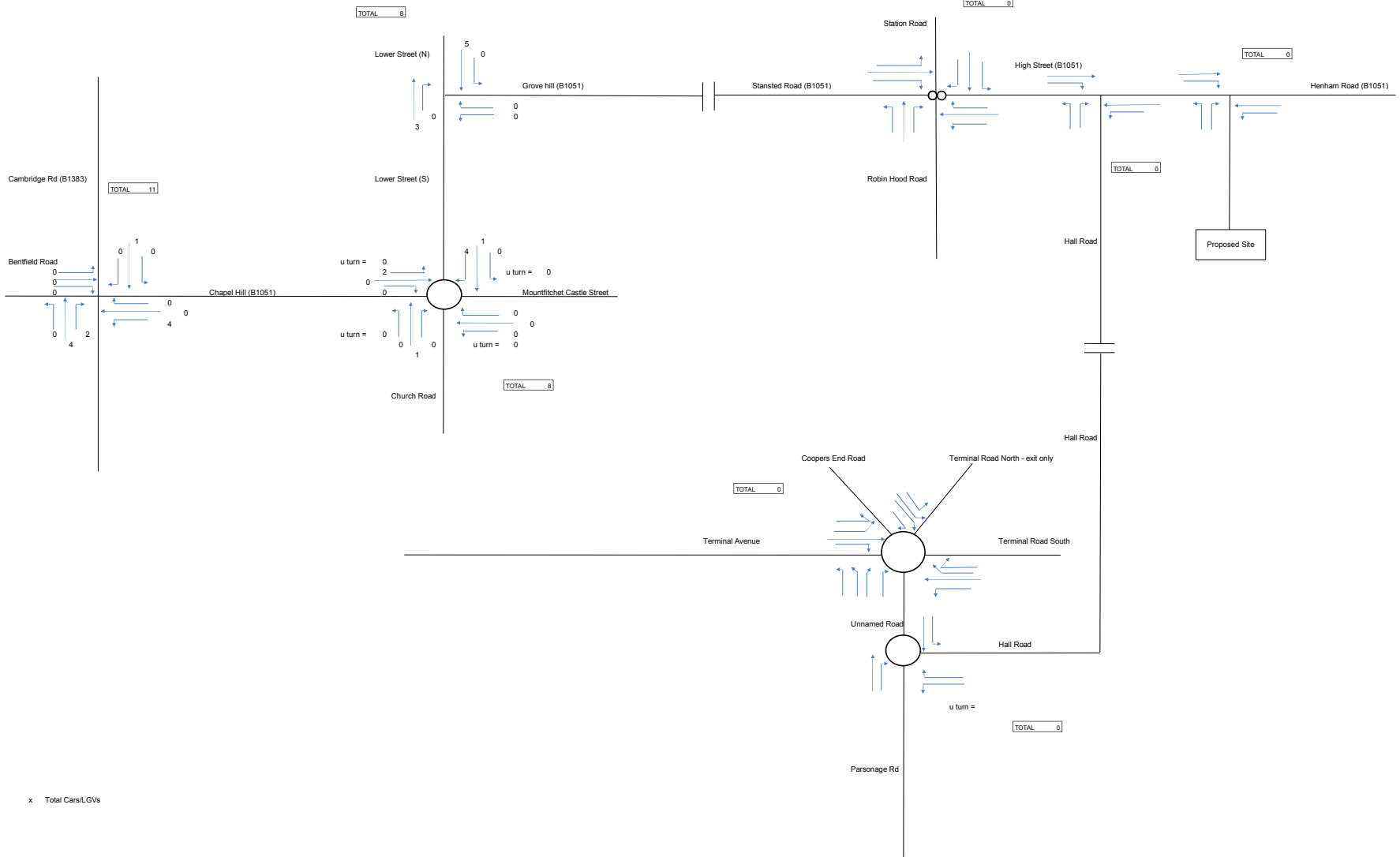


xxx Cars/LGVs



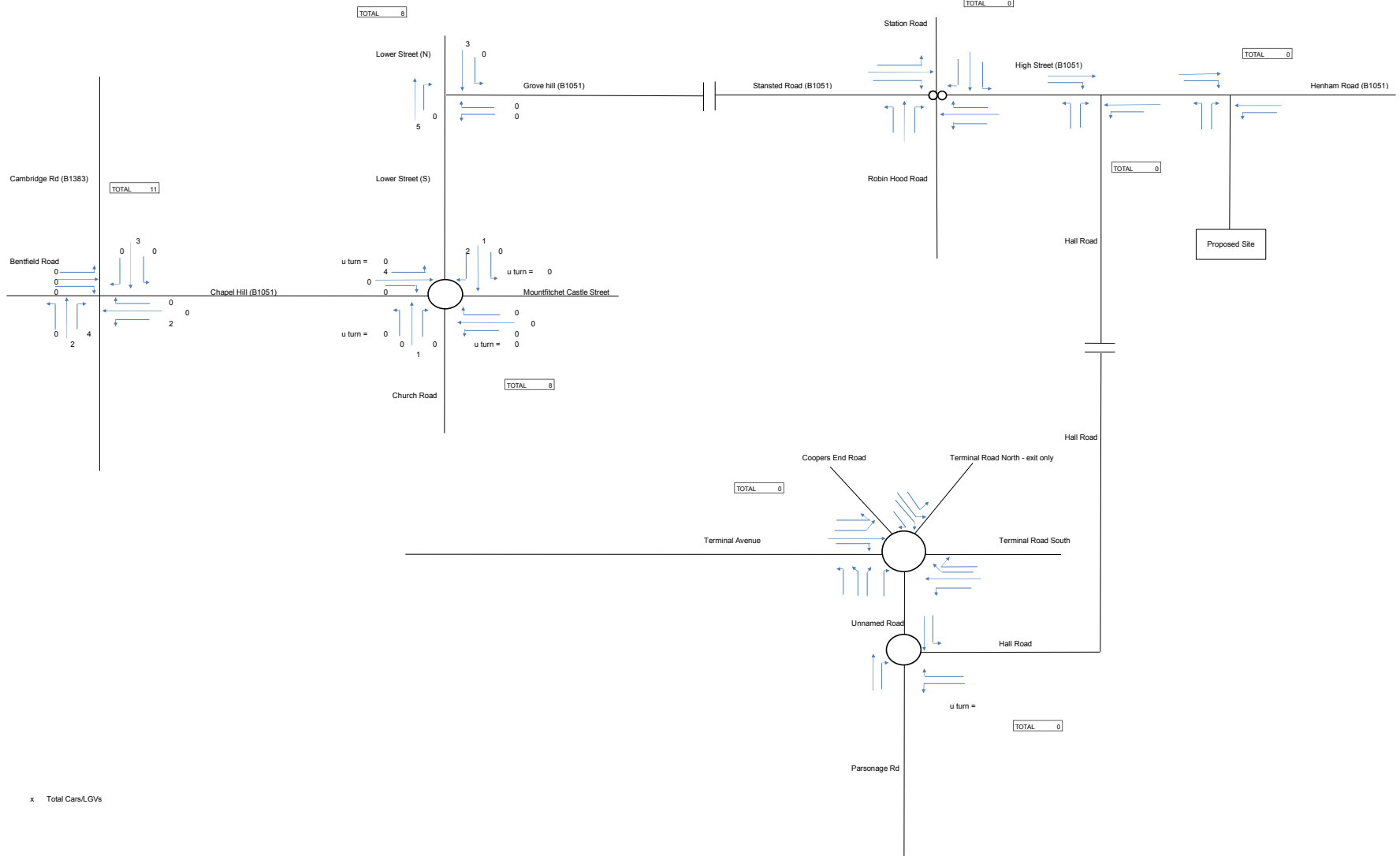


Reduction Factor
0.85



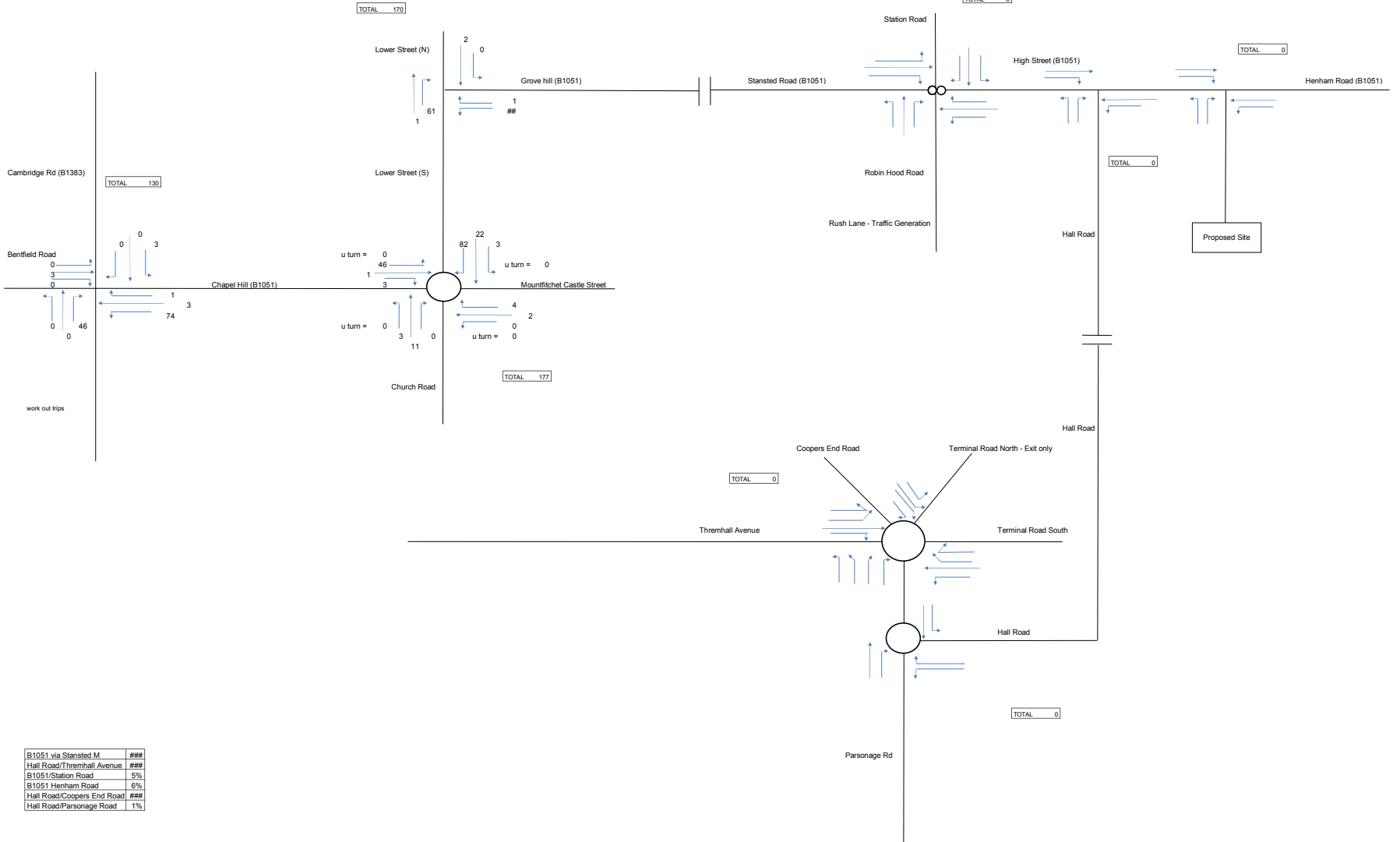
x Total Cars/LGVs

Reduction Factor
0.85



x Total Cars/LGVs

Reduction Factor
0.85



B1051 via Stansted M	###
Hall Road/Thremhall Avenue	###
B1051/Station Road	5%
B1051/Henham Road	6%
Hall Road/Coopers End Road	###
Hall Road/Parsonage Road	1%

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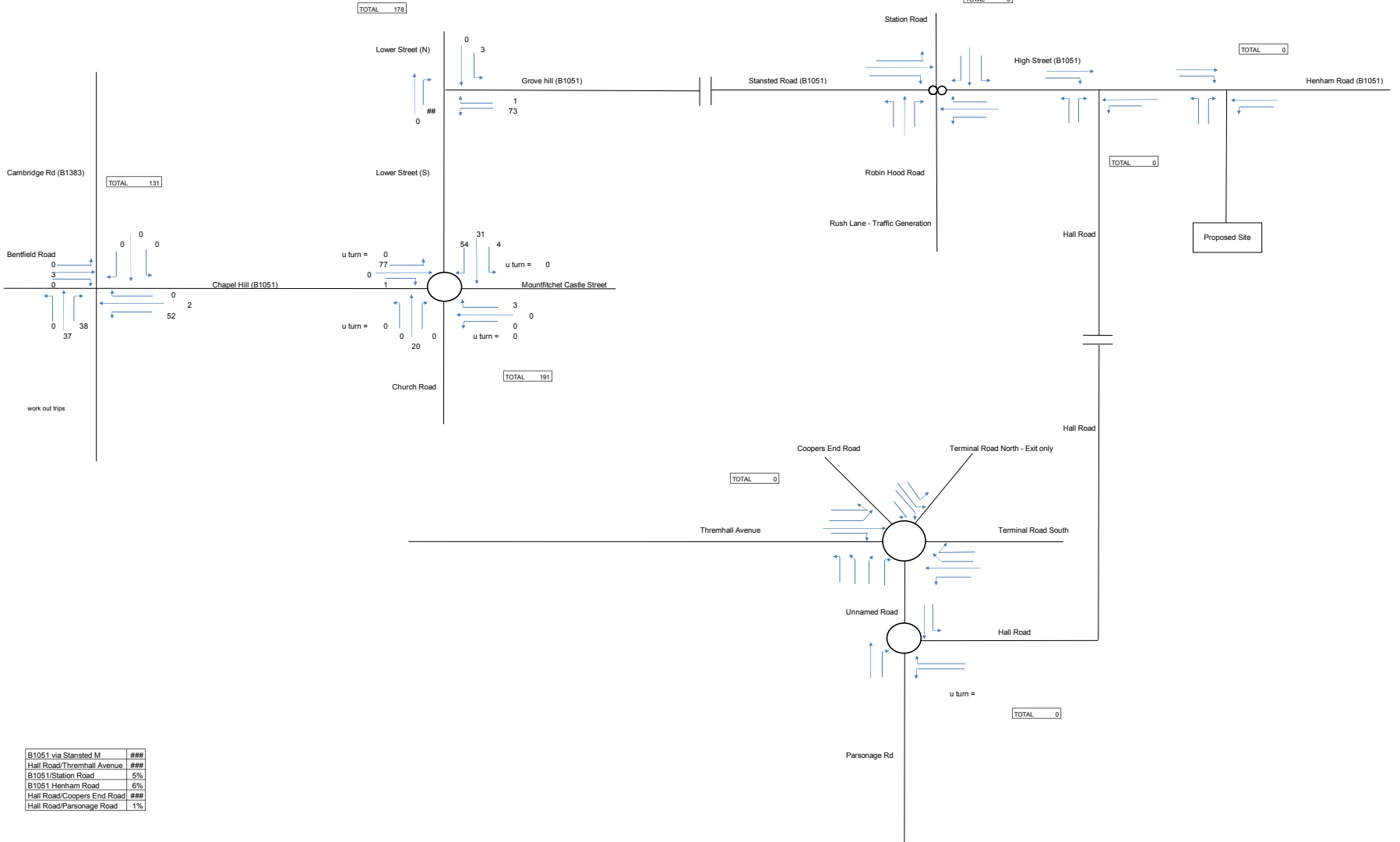
Client
Countryside
Date
July 2022

Job No
2008170

Project
Land South of Henham Road, Elsenham
Drawing No

Total Committed Development Flows (2022) with reduction factor - AM Peak

Reduction Factor
0.85



B1051 via Stansted M	###
Hall Road/Thremhall Avenue	###
B1051/Station Road	5%
B1051/Henham Road	6%
Hall Road/Coopers End Road	###
Hall Road/Parsonage Road	1%

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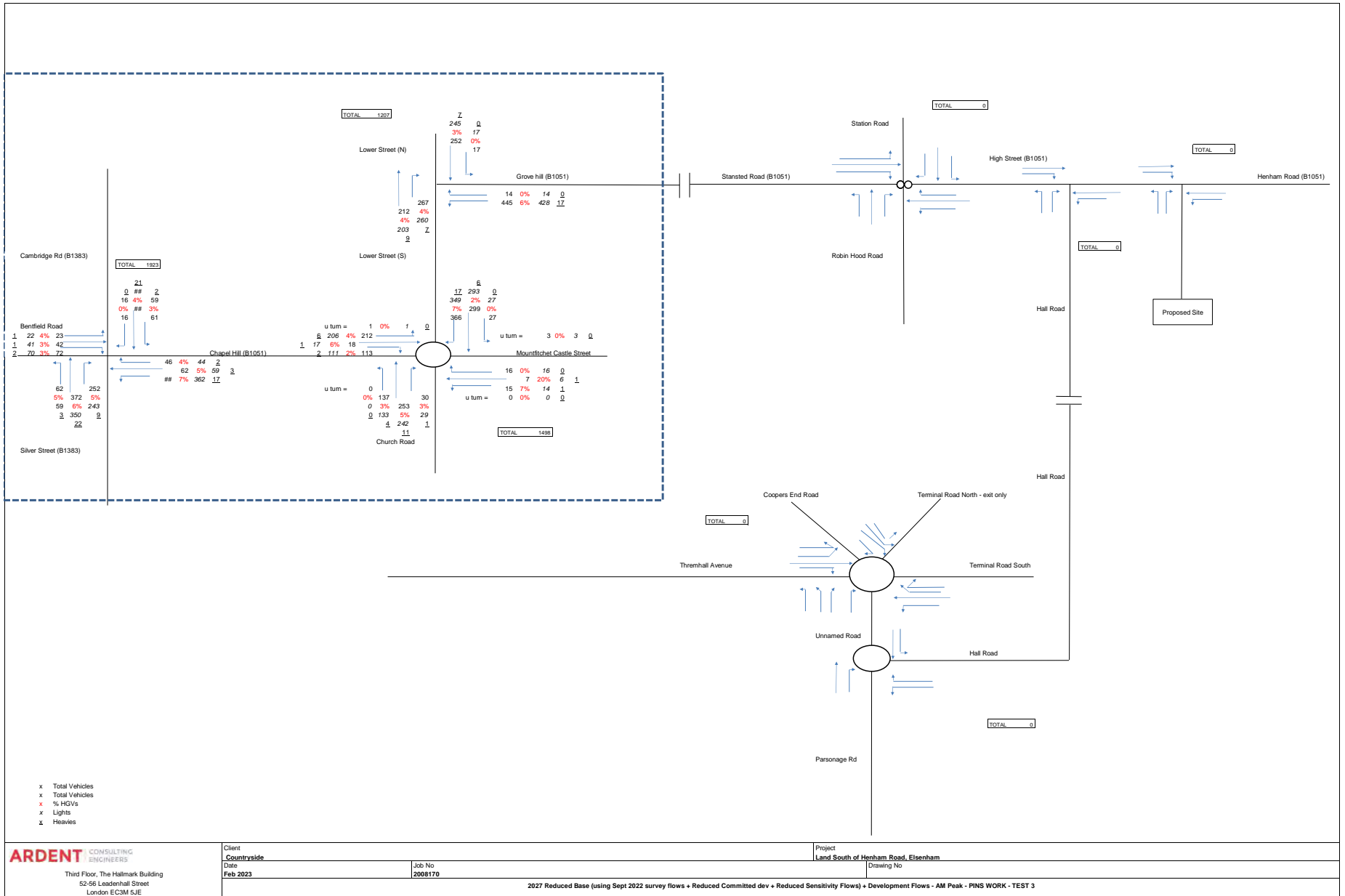
Client
Countryside
Date
July 2022

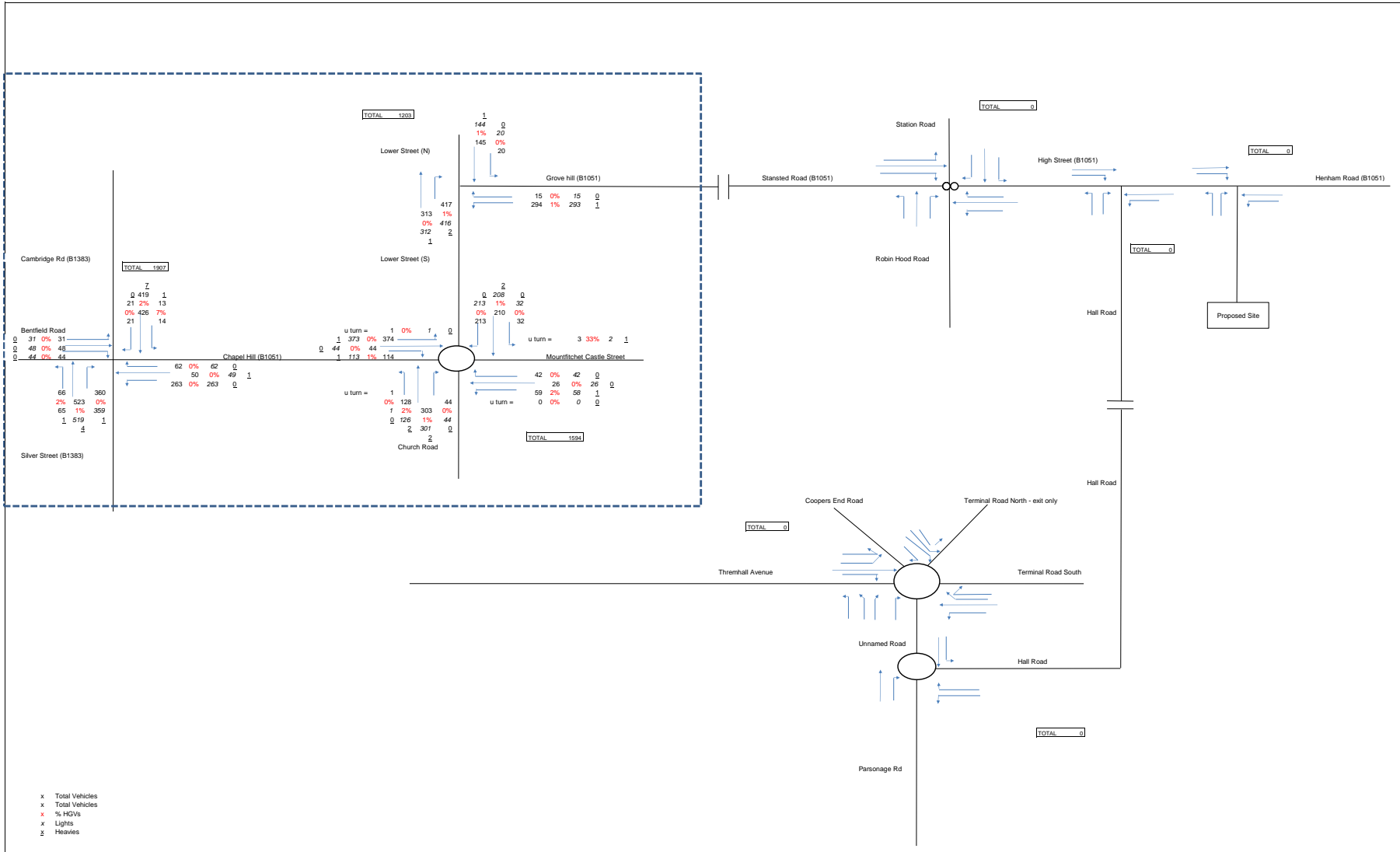
Job No
2008170

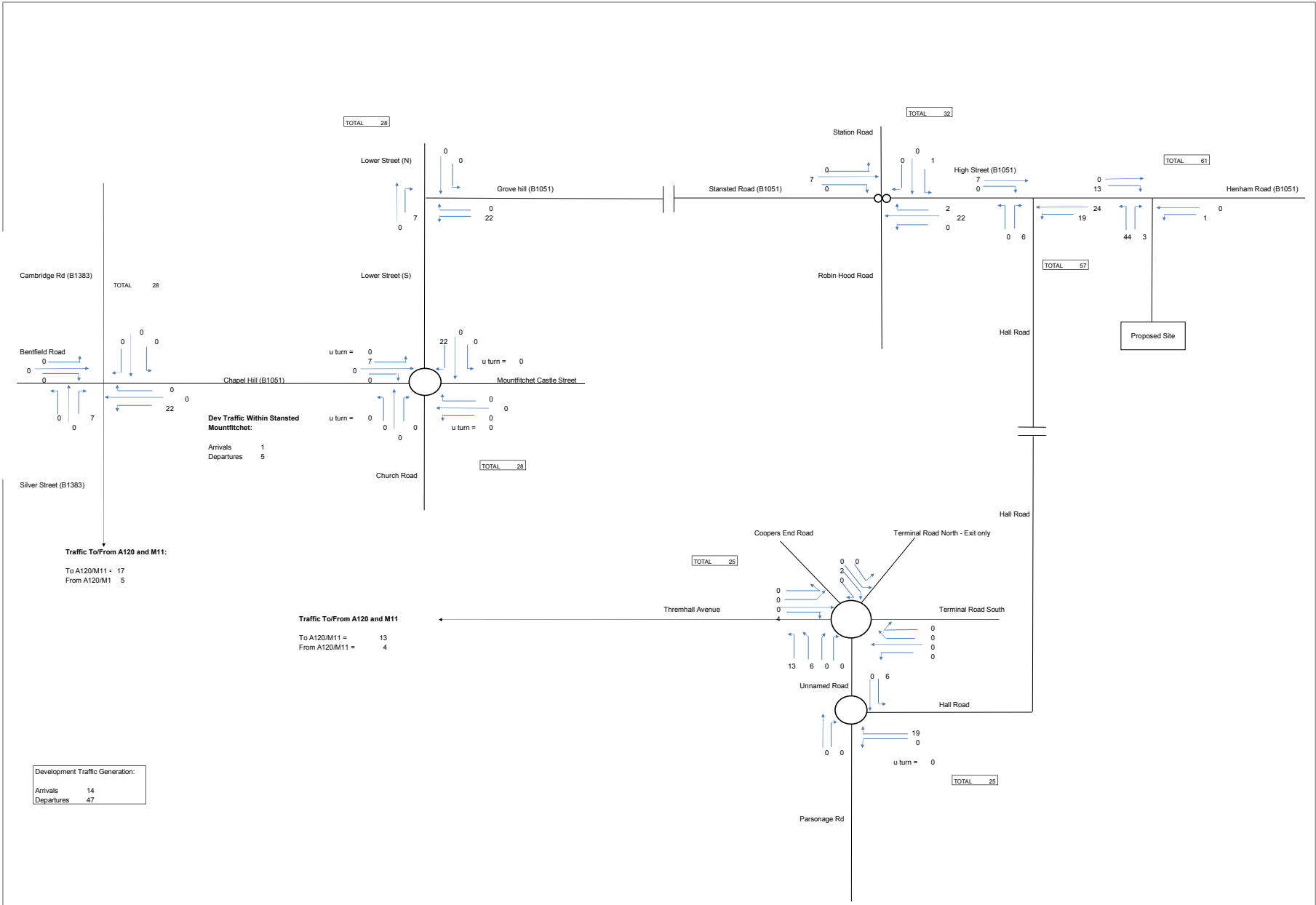
Project
Land South of Henham Road, Elsenham
Drawing No

Total Committed Development Flows (2022) with reduction factor - PM Peak

Appendix L





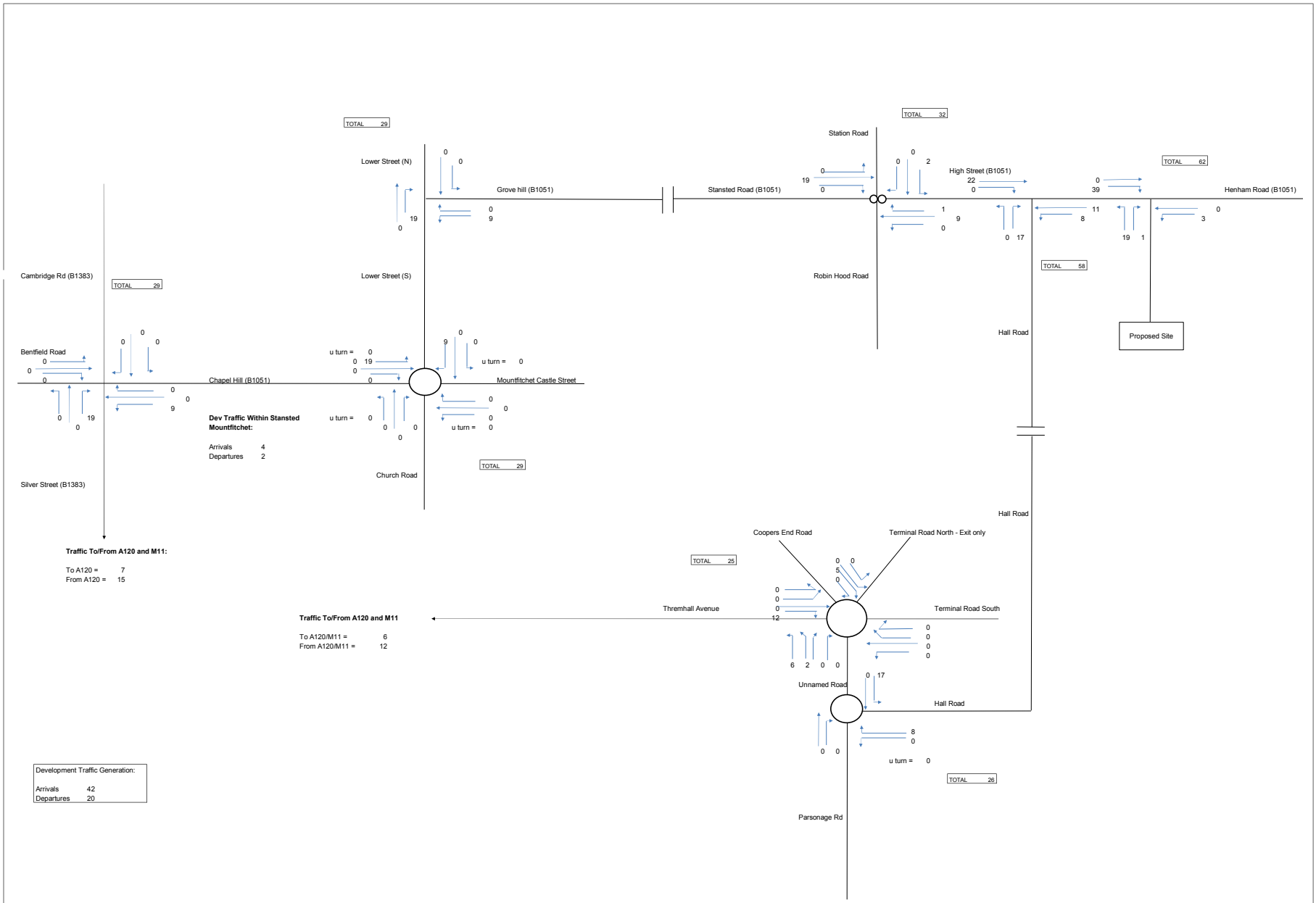


Dev Traffic Within Stansted Mountfitchet:
 Arrivals 1
 Departures 5

Traffic To/From A120 and M11:
 To A120/M11 = 17
 From A120/M11 = 5

Traffic To/From A120 and M11
 To A120/M11 = 13
 From A120/M11 = 4

Development Traffic Generation:
 Arrivals 14
 Departures 47



Traffic To/From A120 and M11:
 To A120 = 7
 From A120 = 15

Traffic To/From A120 and M11
 To A120/M11 = 6
 From A120/M11 = 12

Dev Traffic Within Stansted Mountfitchet:
 Arrivals 4
 Departures 2

Development Traffic Generation:
 Arrivals 42
 Departures 20

**APPENDIX C:
JOURNEY TIME SECTIONS COMPARISON**

																						AM Peak 07:45 to 08:45			
Route	Direction	Description	2027 Base				2027 Base + Dev				AVG DIFF.		2027 Base + Sens				2027 Base + Sens + Dev				AVG DIFF.				
			Travel Time				Travel Time				Diff.	% Diff.	Travel Time				Travel Time				Diff.	% Diff.			
			Min	Avg	Max	St Dev	Min	Avg	Max	St Dev			Min	Avg	Max	St Dev	Min	Avg	Max	St Dev			Diff.	% Diff.	
9991	WB\SB	B1051 Extended section to cover full demand - B1051 (100m east of Raven Cottage)	64	66	70	1	63	66	75	2	1	1%	67	100	168	30	73	216	360	91	116	116%			
101	WB\SB	B1051 (100m east of Raven Cottage) - B1051 / Lower St	89	129	220	34	97	154	215	37	25	20%	175	265	336	43	233	316	382	45	51	19%			
102	WB\SB	B1051 / Lower St - Lower Hill / Chapel Hill R'bout	25	28	32	2	26	29	33	2	2	6%	27	33	38	3	29	34	41	3	0	1%			
103	WB\SB	Lower Hill / Chapel Hill R'bout - Chapel Hill / Cambridge Rd	123	131	137	4	125	132	142	4	1	1%	129	137	147	5	124	137	149	6	-1	0%			
104	WB\SB	Chapel Hill / Cambridge Rd - Silver St / Sanders Cl	20	20	20	0	20	20	20	0	0	0%	20	20	21	0	20	20	20	0	0	0%			
	WB\SB	B1051 Extended section to cover full demand - Silver St / Sanders Cl	320	373	479		331	402	486		29	8%	418	556	710		478	723	952		167	30%			
9992	NB\EB	Silver Street Extended section to cover full demand - Silver St / Sanders Cl	98	101	107	2	99	107	145	11	5	5%	102	108	129	8	100	124	305	47	16	15%			
201	NB\EB	Silver St / Sanders Cl - Chapel Hill / Cambridge Rd	34	41	55	6	36	50	76	12	9	22%	42	57	85	12	44	64	134	22	7	11%			
202	NB\EB	Chapel Hill / Cambridge Rd - Lower Hill / Chapel Hill R'bout	117	157	188	20	138	173	221	25	16	10%	152	188	215	17	166	191	241	17	3	1%			
203	NB\EB	Lower Hill / Chapel Hill R'bout - B1051 / Lower St	46	51	57	3	47	54	62	4	3	6%	52	61	71	6	52	66	78	9	6	9%			
204	NB\EB	B1051 / Lower St - B1051 (100m east of Raven Cottage)	51	53	55	1	51	53	55	1	0	0%	51	53	55	1	50	52	54	1	0	-1%			
	NB\EB	Silver Street Extended section to cover full demand - B1051 (100m east of Raven Cottage)	346	403	462		371	436	559		33	8%	399	467	554		413	497	812		30	6%			

		AM Peak 07:45 to 08:45																				
Route	Direction	Description	2027 Base (SENS2)				2027 Base (SENS2) + DEV				AVG DIFF.		2027 Base (SENS3)				2027 Base (SENS3) + DEV				AVG DIFF.	
			Travel Time				Travel Time				Diff.	% Diff.	Travel Time				Travel Time				Diff.	% Diff.
			Min	Avg	Max	St Dev	Min	Avg	Max	St Dev			Min	Avg	Max	St Dev	Min	Avg	Max	St Dev		
9991	WB\SB	B1051 Extended section to cover full demand - B1051 (100m east of Raven Cottage)	64	65	67	1	63	66	67	1	0	1%	65	69	87	7	66	83	219	34	14	20%
101	WB\SB	B1051 (100m east of Raven Cottage) - B1051 / Lower St	89	113	144	15	103	140	211	29	26	23%	115	180	291	52	129	215	346	49	35	20%
102	WB\SB	B1051 / Lower St - Lower Hill / Chapel Hill R'bout	24	26	29	1	26	28	32	2	2	7%	26	29	33	2	26	30	36	3	0	2%
103	WB\SB	Lower Hill / Chapel Hill R'bout - Chapel Hill / Cambridge Rd	122	132	141	5	123	132	141	5	0	0%	124	134	141	6	124	135	146	6	1	1%
104	WB\SB	Chapel Hill / Cambridge Rd - Silver St / Sanders Cl	20	20	20	0	20	20	21	0	0	0%	20	20	20	0	20	20	20	0	0	0%
	WB\SB	B1051 Extended section to cover full demand - Silver St / Sanders Cl	319	357	401		335	386	471		29	8%	350	431	573		364	482	767		51	12%
9992	NB\EB	Silver Street Extended section to cover full demand - Silver St / Sanders Cl	99	102	106	2	99	103	111	3	1	1%	99	102	112	3	100	107	174	16	5	5%
201	NB\EB	Silver St / Sanders Cl - Chapel Hill / Cambridge Rd	33	41	59	6	35	45	60	6	4	10%	31	43	60	7	38	49	95	13	7	16%
202	NB\EB	Chapel Hill / Cambridge Rd - Lower Hill / Chapel Hill R'bout	118	136	173	13	120	151	177	16	15	11%	128	158	178	14	138	167	194	17	10	6%
203	NB\EB	Lower Hill / Chapel Hill R'bout - B1051 / Lower St	44	49	58	4	42	51	57	4	2	4%	47	54	62	4	47	54	62	5	0	1%
204	NB\EB	B1051 / Lower St - B1051 (100m east of Raven Cottage)	51	52	54	1	51	53	54	1	0	1%	51	53	56	1	51	53	55	1	0	0%
	NB\EB	Silver Street Extended section to cover full demand - B1051 (100m east of Raven Cottage)	345	380	449		348	402	459		22	6%	357	409	468		374	431	580		22	5%

		PM Peak 17:00 to 18:00																				
Route	Direction	Description	2027 Base				2027 Base + Dev				AVG DIFF.		2027 Base + Sens				2027 Base + Sens + Dev				AVG DIFF.	
			Travel Time				Travel Time				Diff.	% Diff.	Travel Time				Travel Time				Diff.	% Diff.
			Min	Avg	Max	St Dev	Min	Avg	Max	St Dev			Min	Avg	Max	St Dev	Min	Avg	Max	St Dev		
9991	WB\SB	B1051 Extended section to cover full demand - B1051 (100m east of Raven Cottage)	62	64	66	1	62	64	66	1	0	0%	62	70	94	9	64	88	157	28	19	27%
101	WB\SB	B1051 (100m east of Raven Cottage) - B1051 / Lower St	124	191	357	61	136	233	337	54	43	22%	257	358	430	53	325	399	467	39	41	11%
102	WB\SB	B1051 / Lower St - Lower Hill / Chapel Hill R'bout	28	30	35	2	29	31	36	2	1	3%	29	31	33	1	30	32	35	1	1	4%
103	WB\SB	Lower Hill / Chapel Hill R'bout - Chapel Hill / Cambridge Rd	106	125	152	13	110	129	146	10	4	3%	109	129	152	10	114	132	151	10	4	3%
104	WB\SB	Chapel Hill / Cambridge Rd - Silver St / Sanders Cl	19	20	20	0	19	20	20	0	0	0%	19	20	20	0	19	20	20	0	0	0%
	WB\SB	B1051 Extended section to cover full demand - Silver St / Sanders Cl	339	430	630		357	477	604		47	11%	477	607	728		553	671	830		64	11%
9992	NB\EB	Silver Street Extended section to cover full demand - Silver St / Sanders Cl	105	112	131	8	109	129	183	26	17	15%	108	145	206	29	128	179	246	32	34	24%
201	NB\EB	Silver St / Sanders Cl - Chapel Hill / Cambridge Rd	39	46	56	5	45	52	64	6	6	14%	44	58	72	7	51	63	75	6	5	9%
202	NB\EB	Chapel Hill / Cambridge Rd - Lower Hill / Chapel Hill R'bout	113	137	162	11	126	148	166	10	11	8%	134	158	183	16	142	161	195	14	3	2%
203	NB\EB	Lower Hill / Chapel Hill R'bout - B1051 / Lower St	42	45	50	2	44	47	51	2	2	5%	44	49	52	2	46	50	53	2	1	2%
204	NB\EB	B1051 / Lower St - B1051 (100m east of Raven Cottage)	51	52	54	1	51	52	54	1	0	0%	51	52	55	1	51	52	54	1	0	0%
	NB\EB	Silver Street Extended section to cover full demand - B1051 (100m east of Raven Cottage)	350	392	452		374	429	519		37	9%	382	461	567		420	504	623		43	9%

		PM Peak 17:00 to 18:00																				
Route	Direction	Description	2027 Base (SENS2)				2027 Base (SENS2) + DEV				AVG DIFF.		2027 Base (SENS3)				2027 Base (SENS3) + DEV				AVG DIFF.	
			Travel Time				Travel Time				Diff.	% Diff.	Travel Time				Travel Time				Diff.	% Diff.
			Min	Avg	Max	St Dev	Min	Avg	Max	St Dev			Min	Avg	Max	St Dev	Min	Avg	Max	St Dev		
9991	WB\SB	B1051 Extended section to cover full demand - B1051 (100m east of Raven Cottage)	61	63	65	1	62	63	65	1	0	0%	62	64	66	1	62	64	73	2	1	1%
101	WB\SB	B1051 (100m east of Raven Cottage) - B1051 / Lower St	108	128	173	19	107	155	265	37	27	21%	129	185	270	44	177	267	375	55	83	45%
102	WB\SB	B1051 / Lower St - Lower Hill / Chapel Hill R'bout	28	29	30	1	28	30	32	1	1	2%	29	31	33	1	28	30	33	1	0	-1%
103	WB\SB	Lower Hill / Chapel Hill R'bout - Chapel Hill / Cambridge Rd	97	128	145	12	108	129	150	12	2	1%	118	132	147	9	113	131	146	10	-2	-1%
104	WB\SB	Chapel Hill / Cambridge Rd - Silver St / Sanders Cl	19	20	20	0	19	20	20	0	0	0%	19	20	20	0	19	20	20	0	0	0%
	WB\SB	B1051 Extended section to cover full demand - Silver St / Sanders Cl	314	368	433		324	397	532		29	8%	357	431	537		399	513	646		82	19%
9992	NB\EB	Silver Street Extended section to cover full demand - Silver St / Sanders Cl	103	107	112	3	104	113	138	9	6	6%	106	117	162	12	110	133	194	22	16	14%
201	NB\EB	Silver St / Sanders Cl - Chapel Hill / Cambridge Rd	35	42	51	4	38	46	56	5	4	10%	40	49	66	6	44	54	63	6	5	10%
202	NB\EB	Chapel Hill / Cambridge Rd - Lower Hill / Chapel Hill R'bout	110	127	152	12	127	139	156	9	11	9%	125	143	162	10	129	149	170	13	6	4%
203	NB\EB	Lower Hill / Chapel Hill R'bout - B1051 / Lower St	39	43	48	2	40	45	48	2	2	4%	43	47	51	2	43	47	51	2	0	1%
204	NB\EB	B1051 / Lower St - B1051 (100m east of Raven Cottage)	51	52	55	1	51	52	54	1	0	0%	51	52	53	1	51	52	53	1	0	0%
	NB\EB	Silver Street Extended section to cover full demand - B1051 (100m east of Raven Cottage)	338	371	418		360	394	452		23	6%	364	409	494		377	436	532		28	7%

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