

Appendix 9.4

Overshadowing Results

1 SITE OVERVIEW

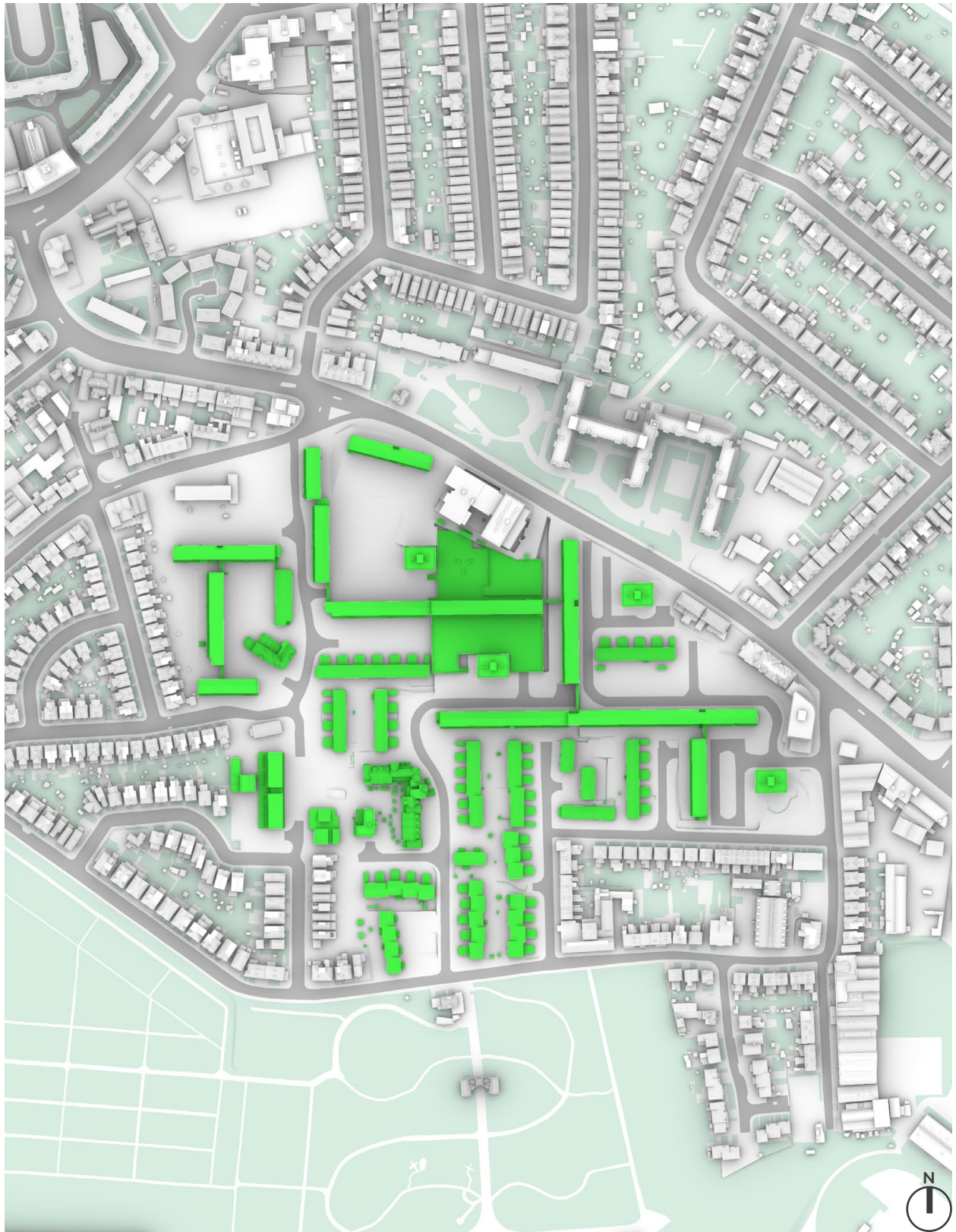


Fig. 01: Top view - Existing Scenario

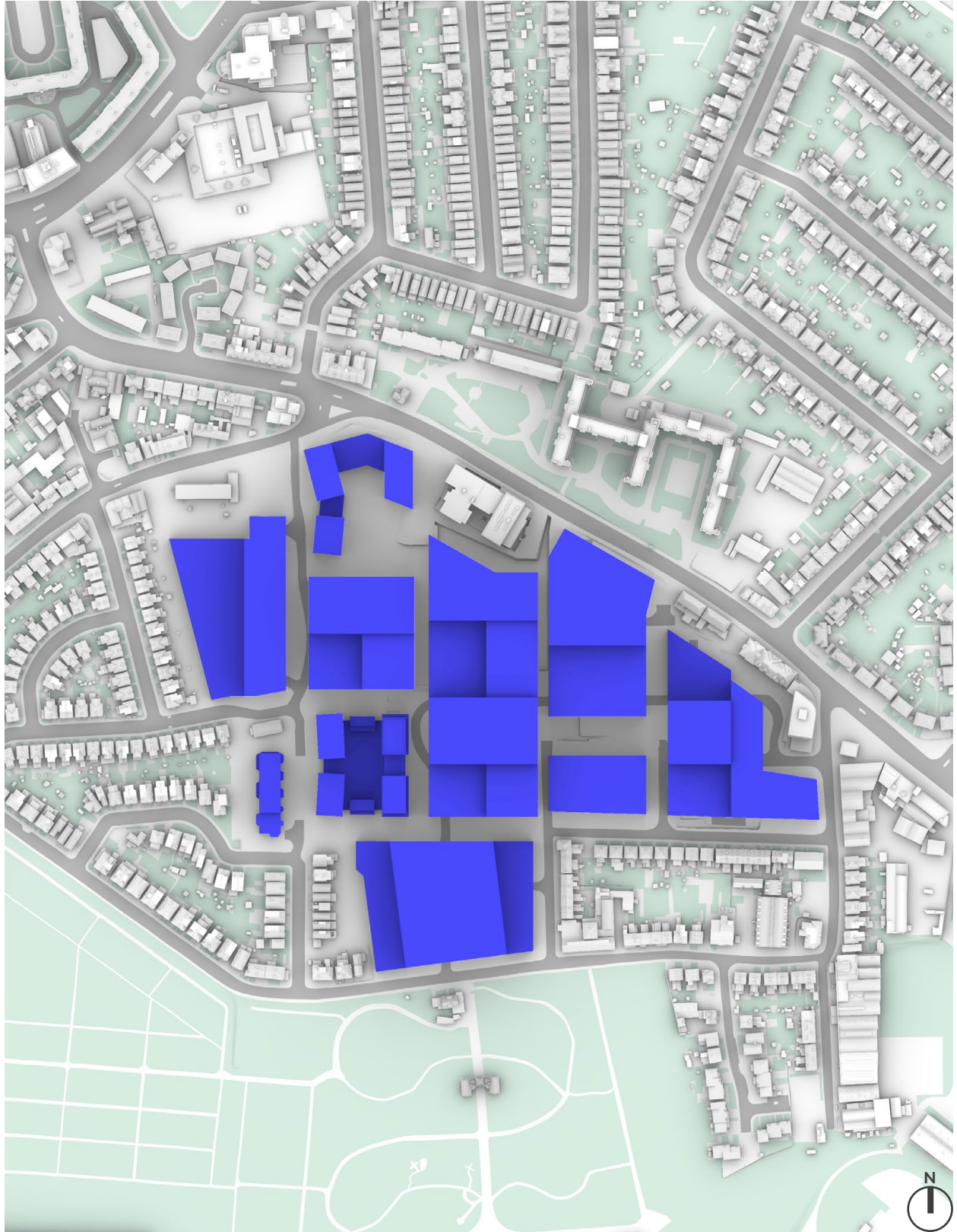


Fig. 02: Top view - Proposed Scenario



Fig. 03: Perspective view - Existing Scenario



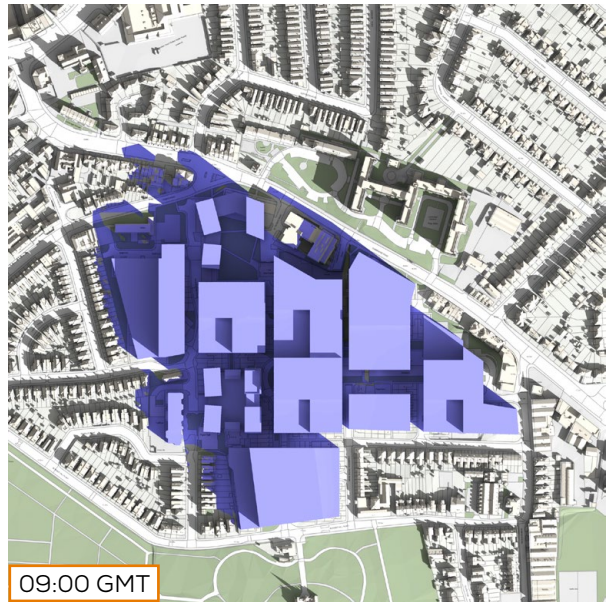
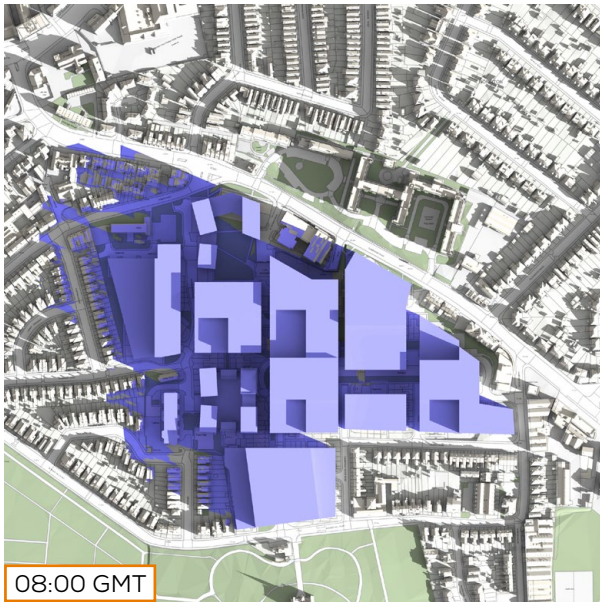
Fig. 04: Perspective view - Proposed Scenario

TRANSIENT OVERSHADOWING ASSESSMENT
21ST MARCH (08:00 - 11:00 GMT)

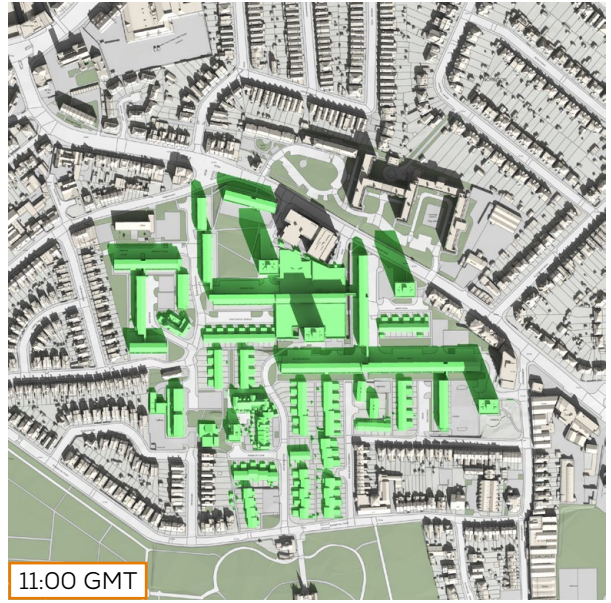
EXISTING



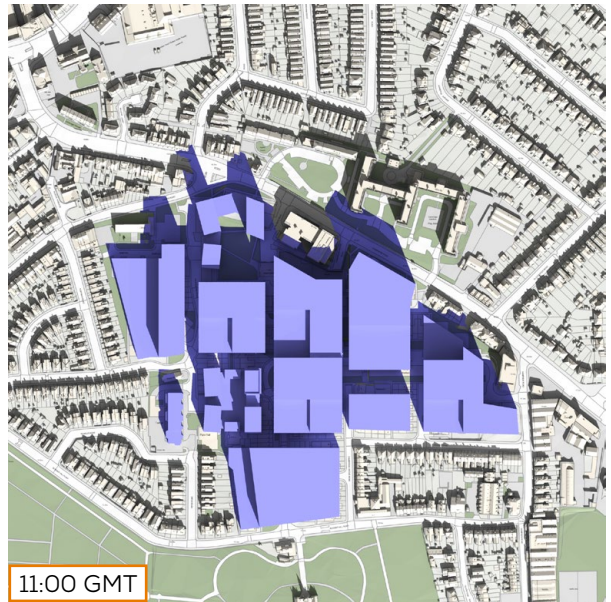
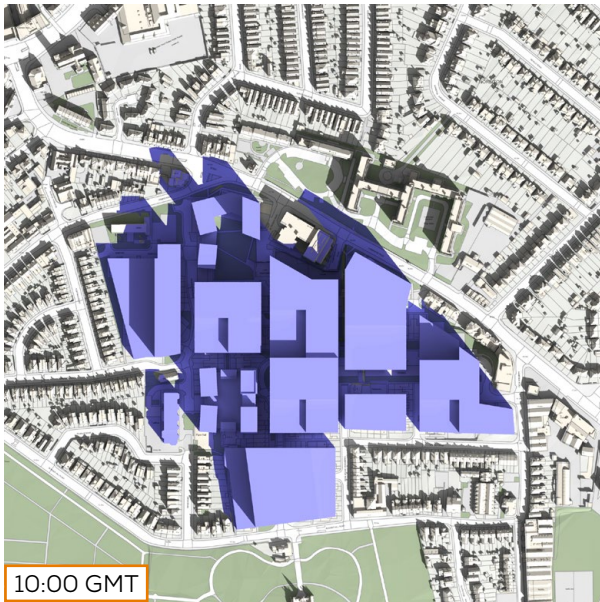
PROPOSED



EXISTING

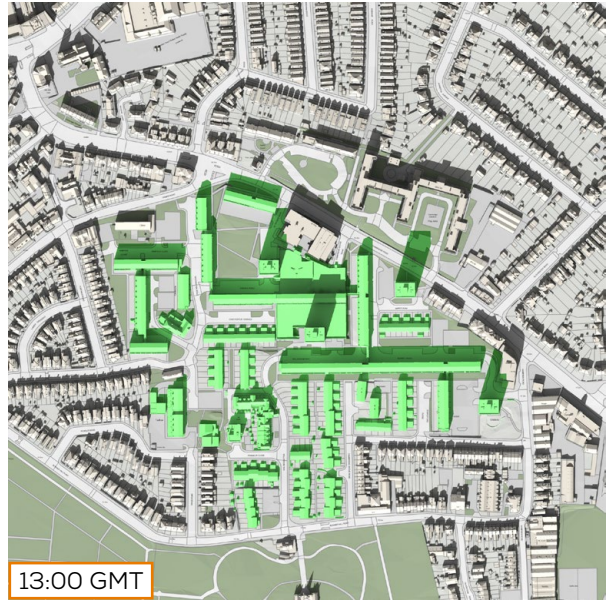
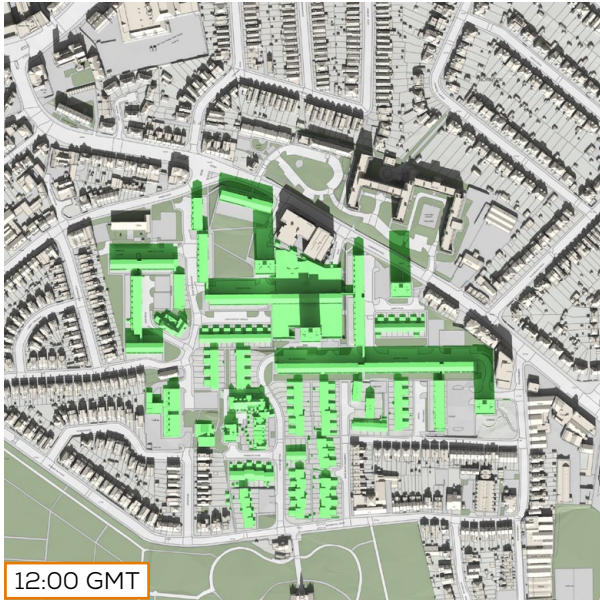


PROPOSED

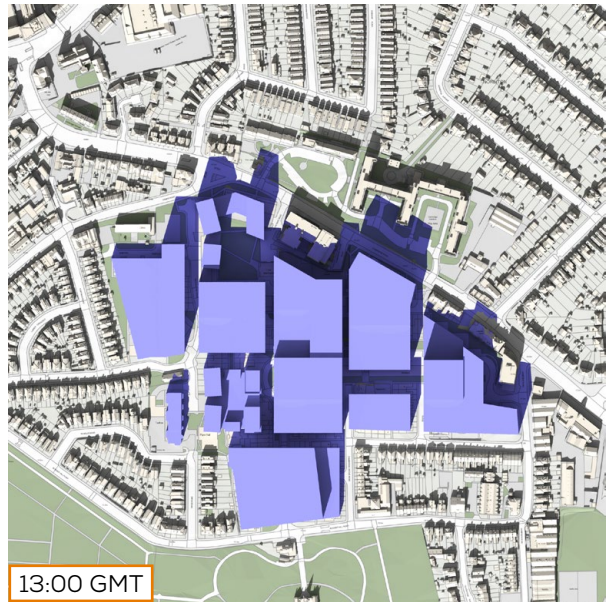
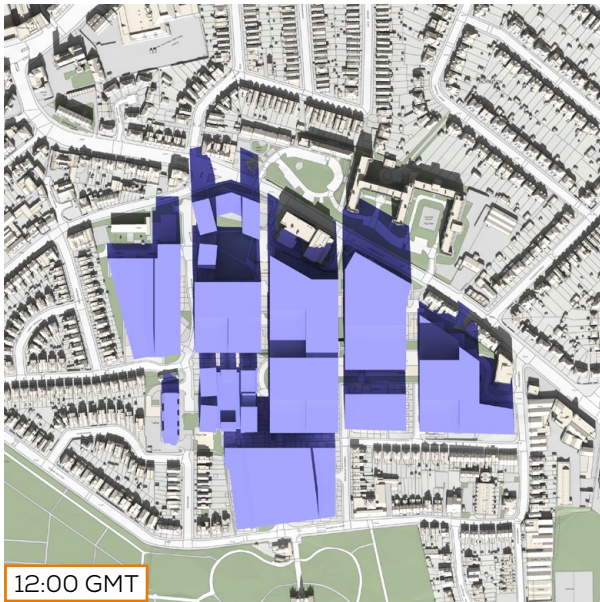


TRANSIENT OVERSHADOWING ASSESSMENT
21ST MARCH (12:00 - 15:00 GMT)

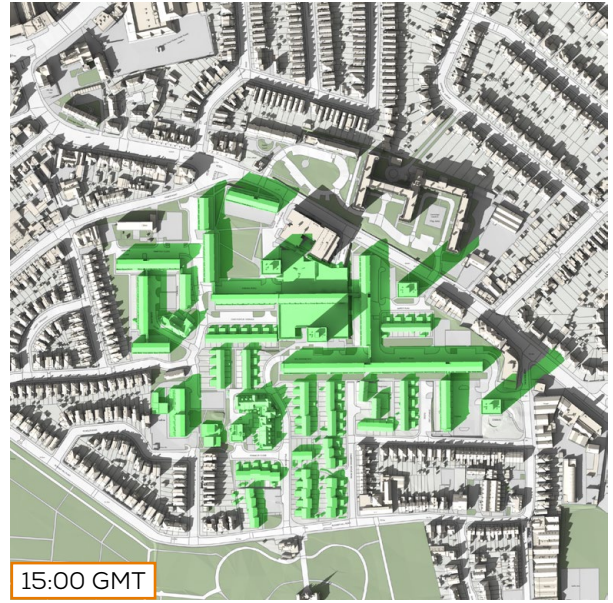
EXISTING



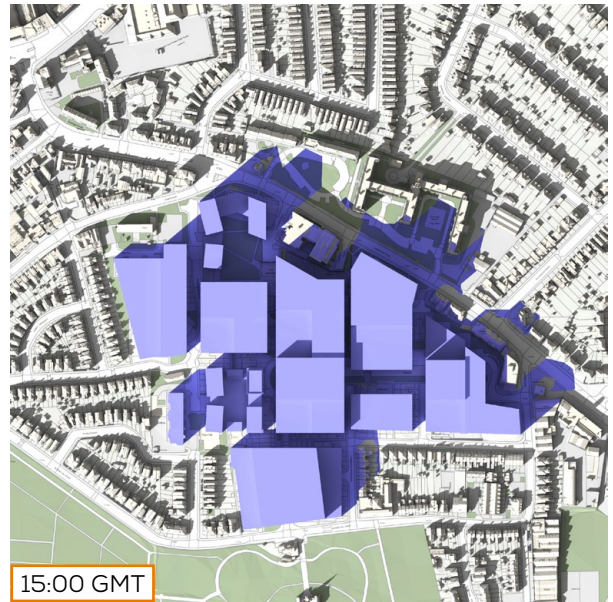
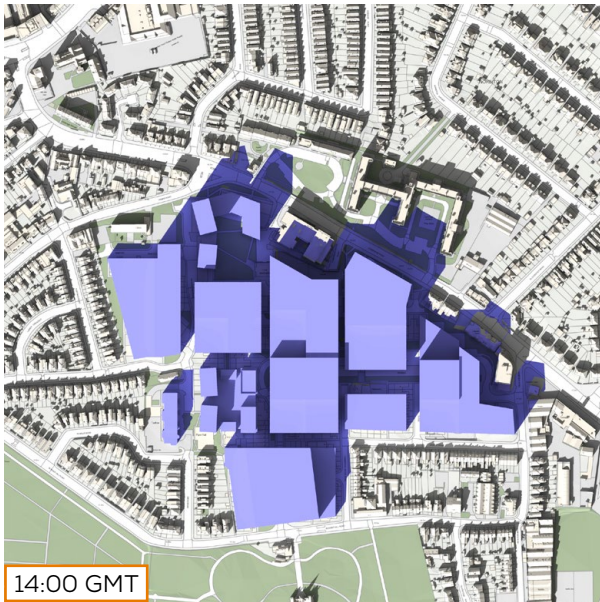
PROPOSED



EXISTING

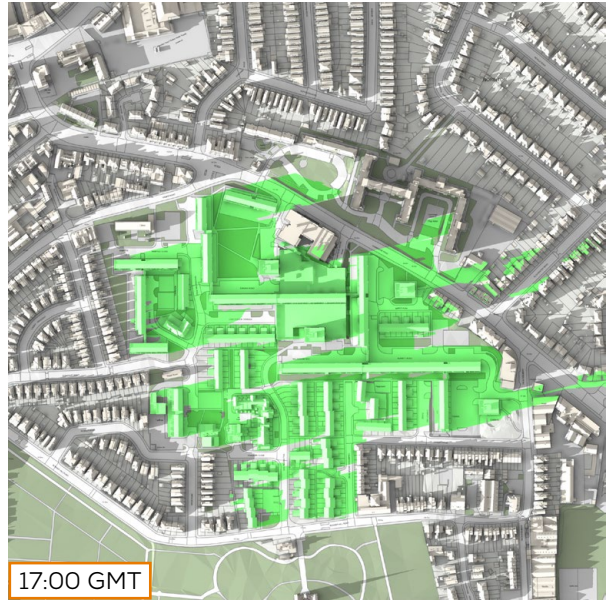
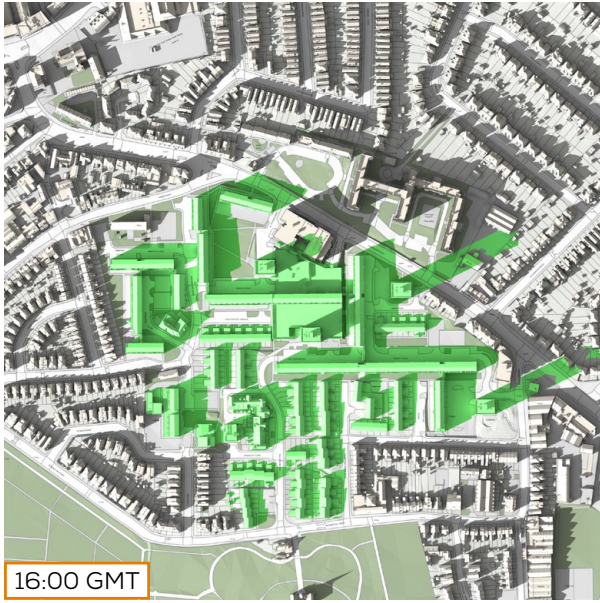


PROPOSED

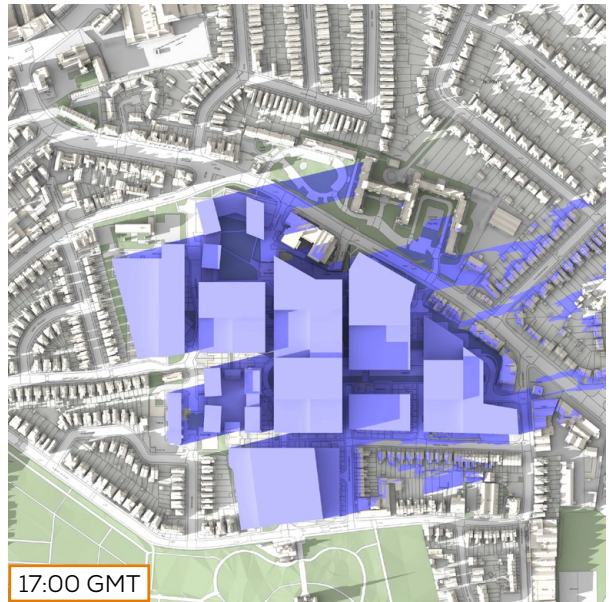


TRANSIENT OVERSHADOWING ASSESSMENT
21ST MARCH (16:00 - 17:00 GMT)

EXISTING



PROPOSED

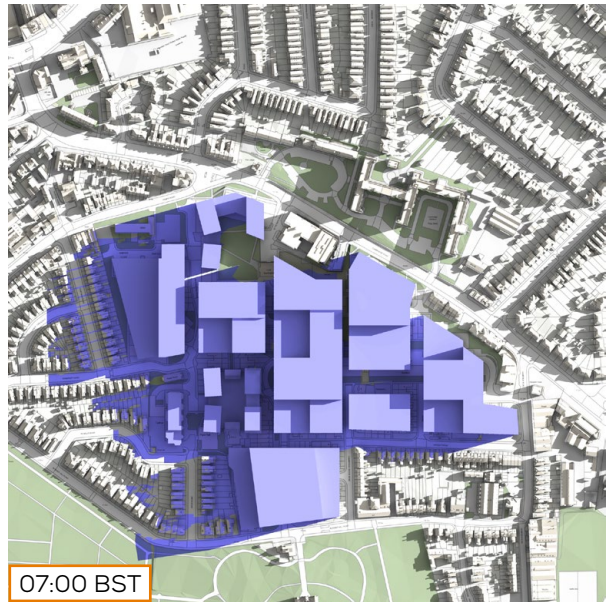
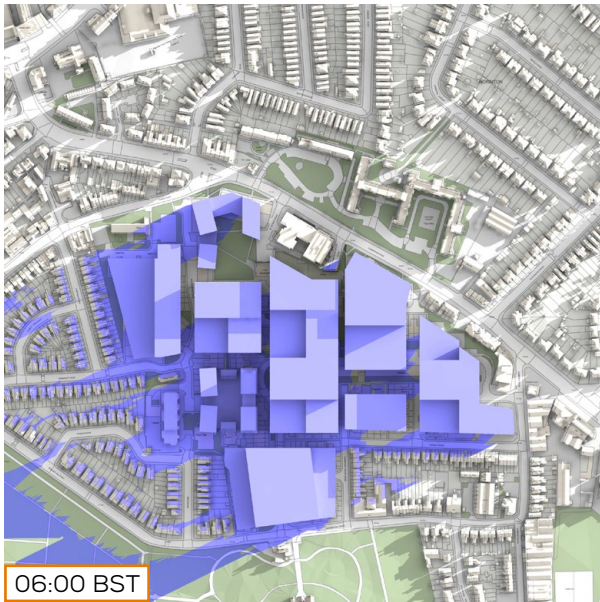


TRANSIENT OVERSHADOWING ASSESSMENT
21ST JUNE (06:00 - 09:00 BST)

EXISTING



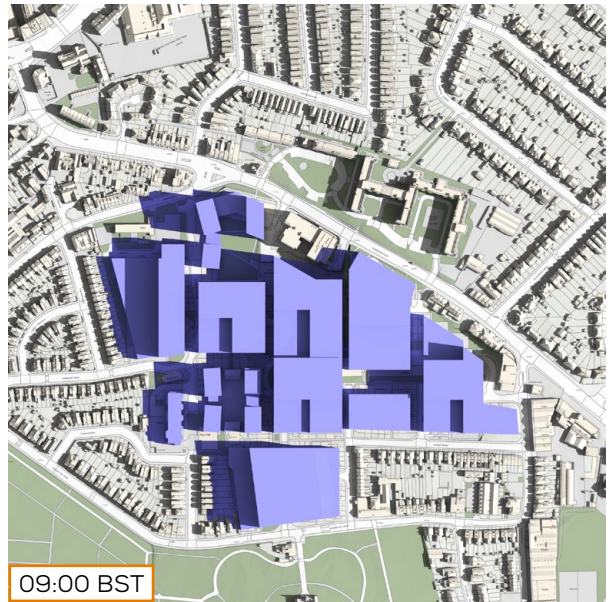
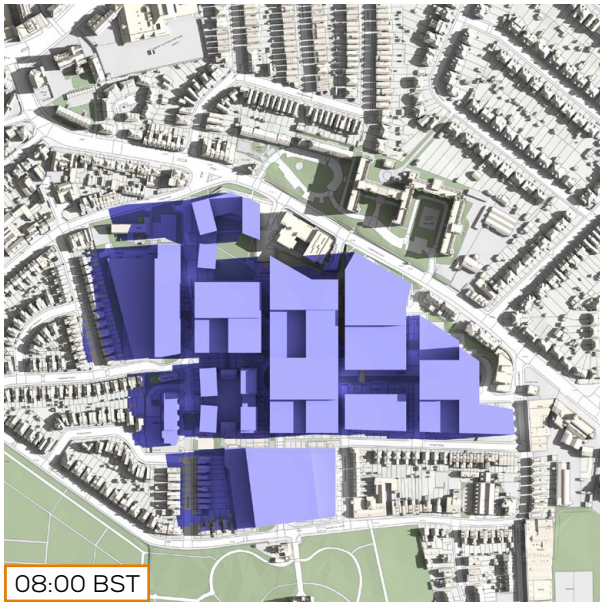
PROPOSED



EXISTING

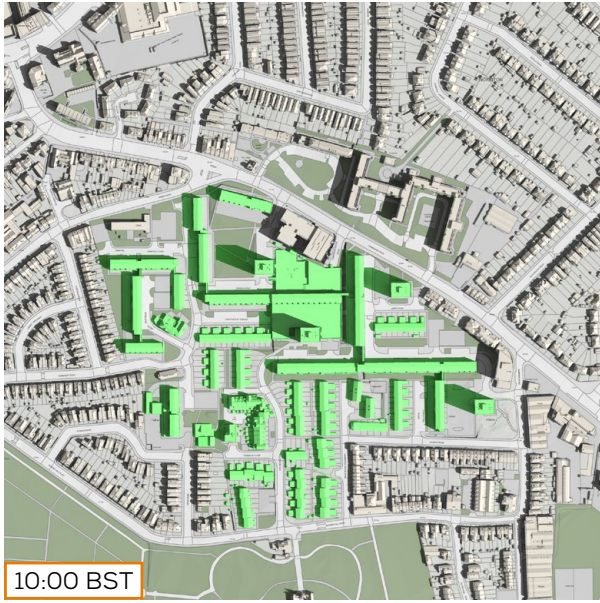


PROPOSED

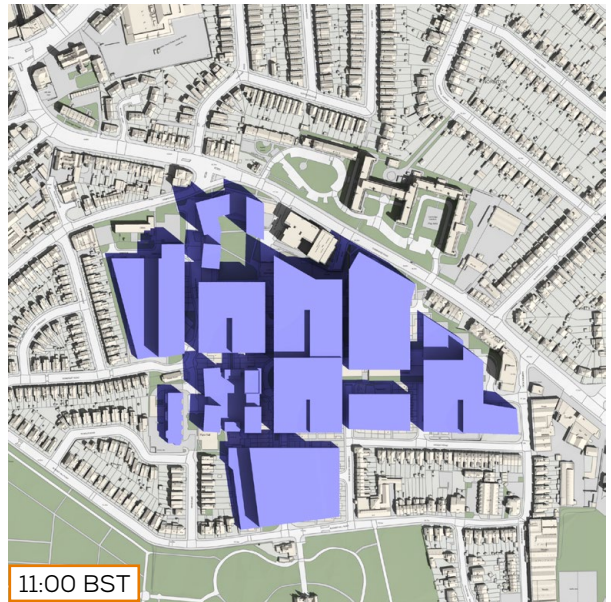
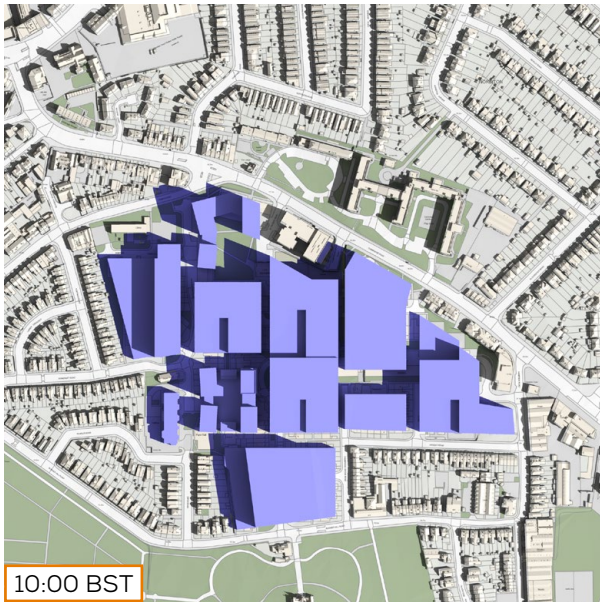


TRANSIENT OVERSHADOWING ASSESSMENT
21ST JUNE (10:00 - 13:00 BST)

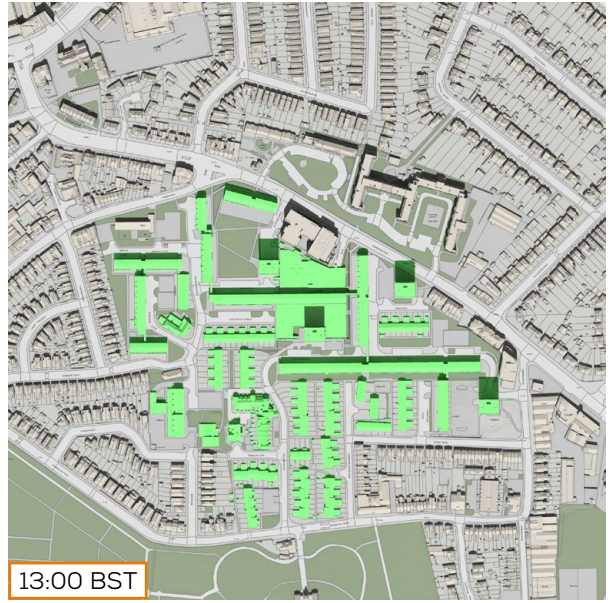
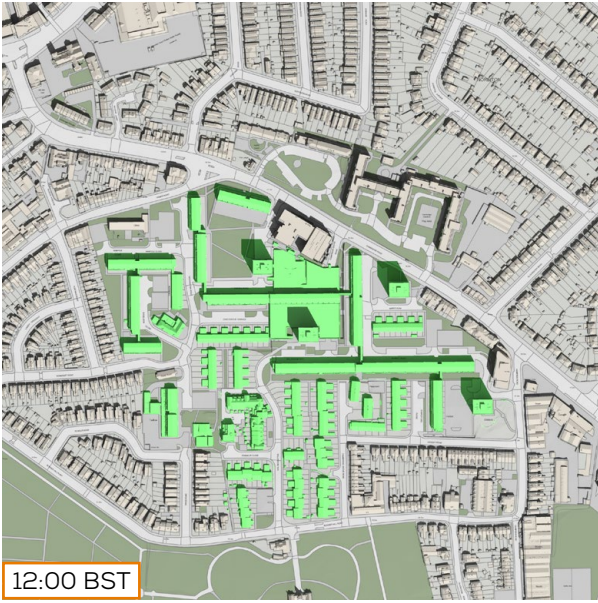
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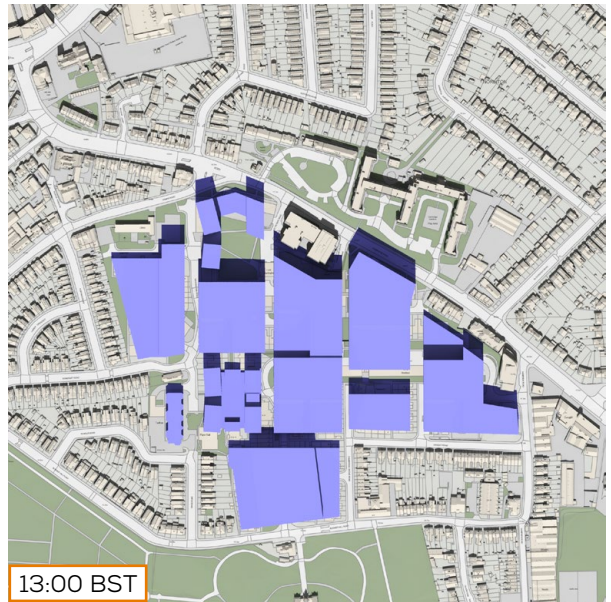
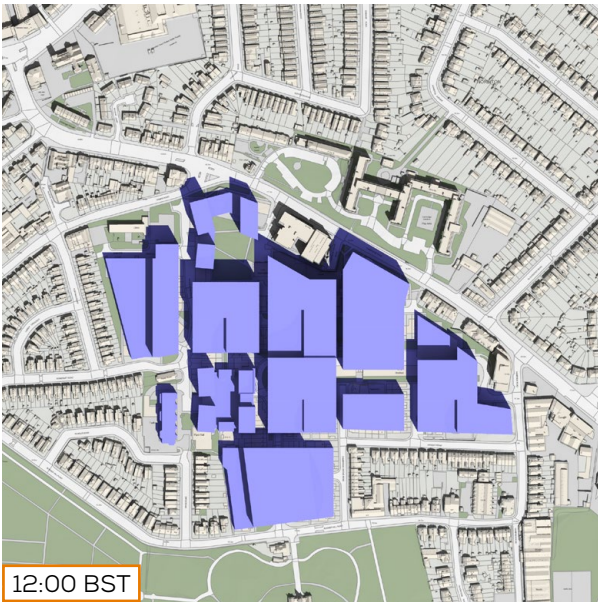
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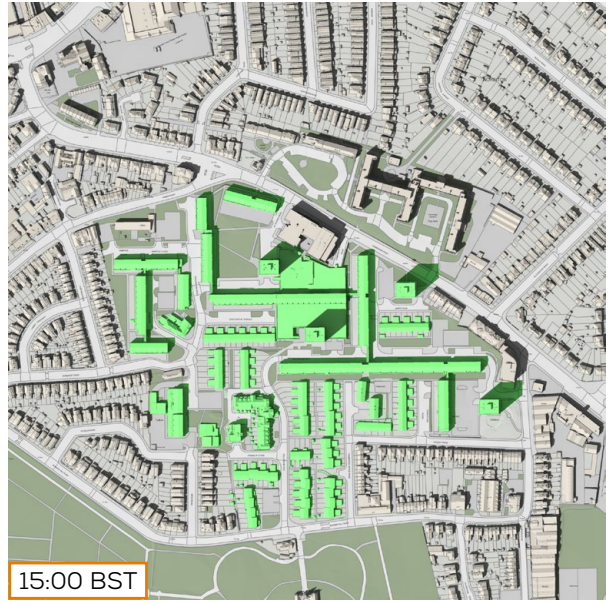
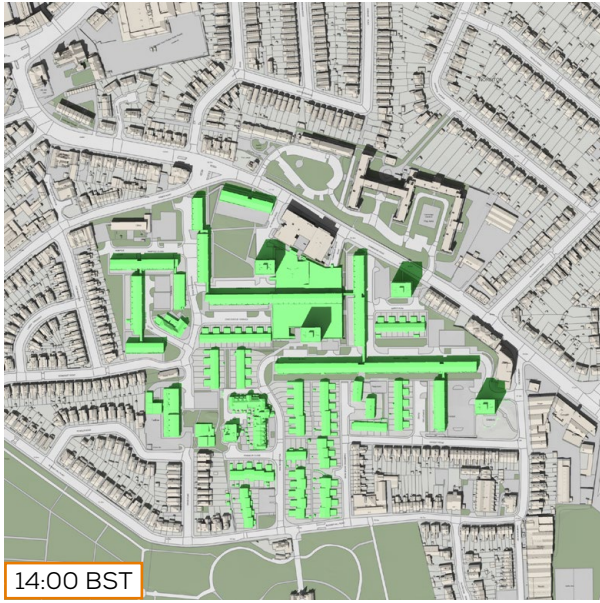


PROPOSED

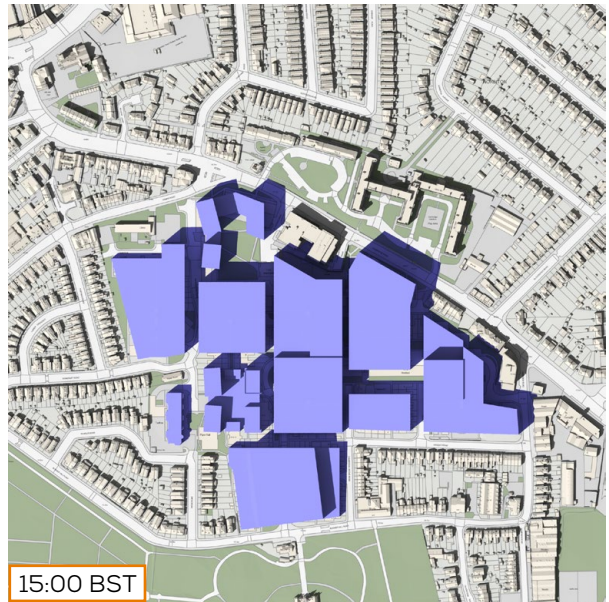
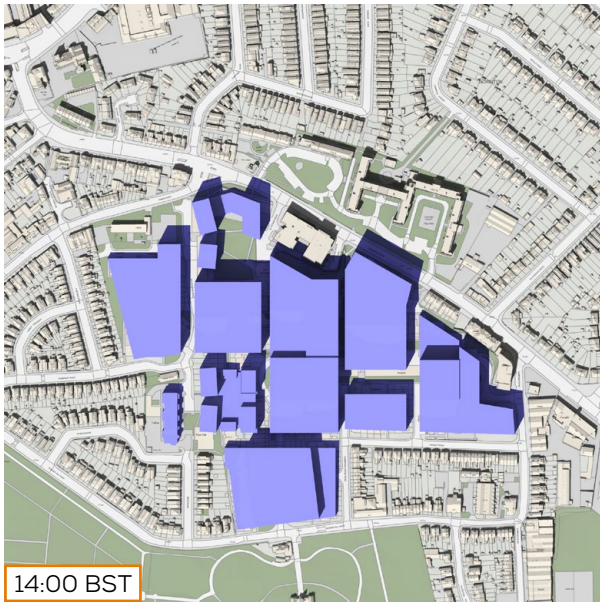


TRANSIENT OVERSHADOWING ASSESSMENT
21ST JUNE (14:00 - 17:00 BST)

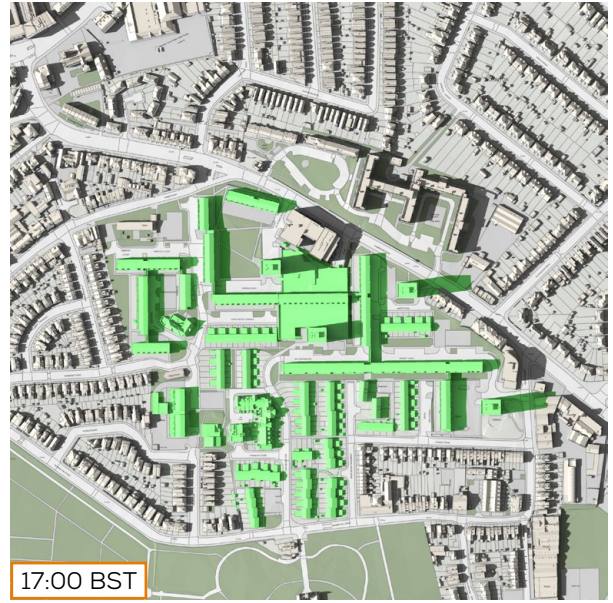
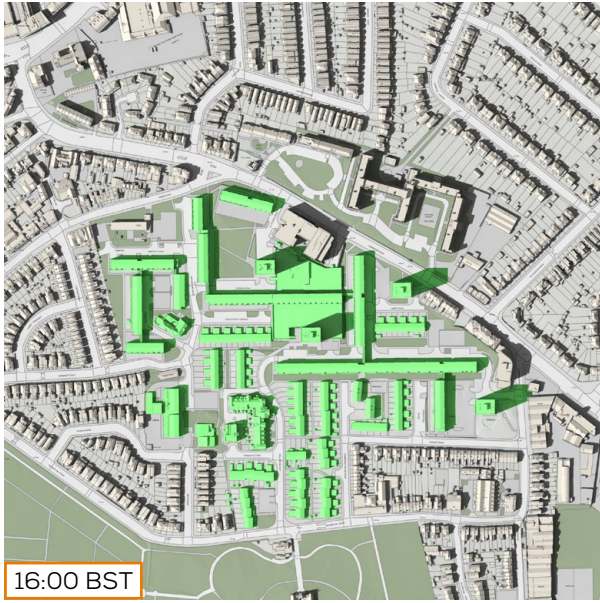
EXISTING



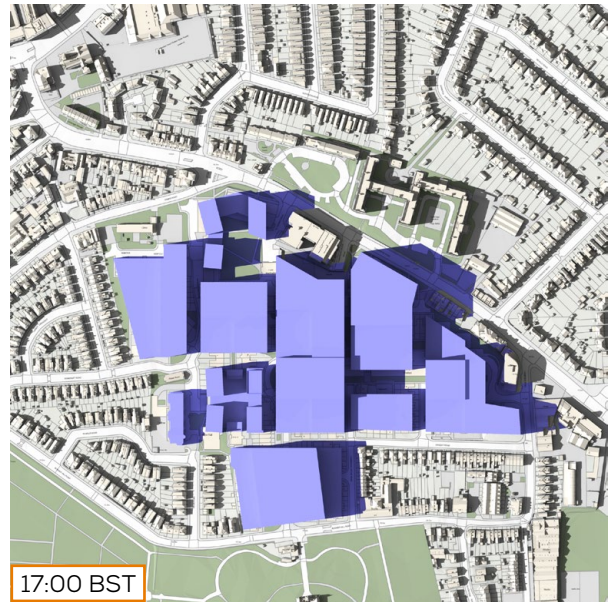
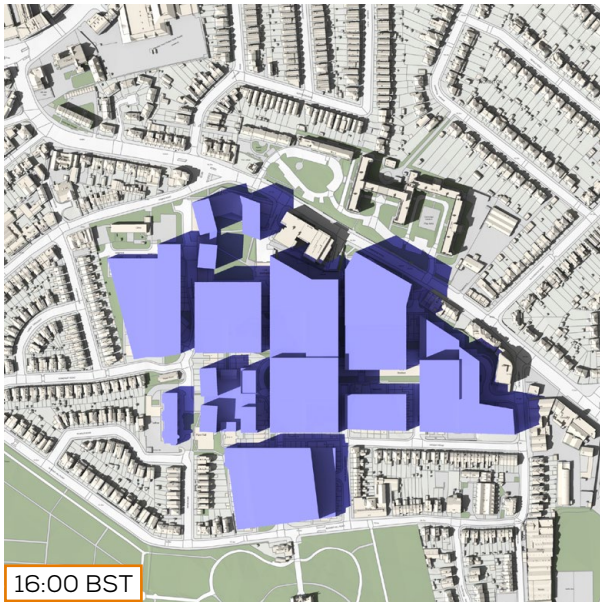
PROPOSED



EXISTING

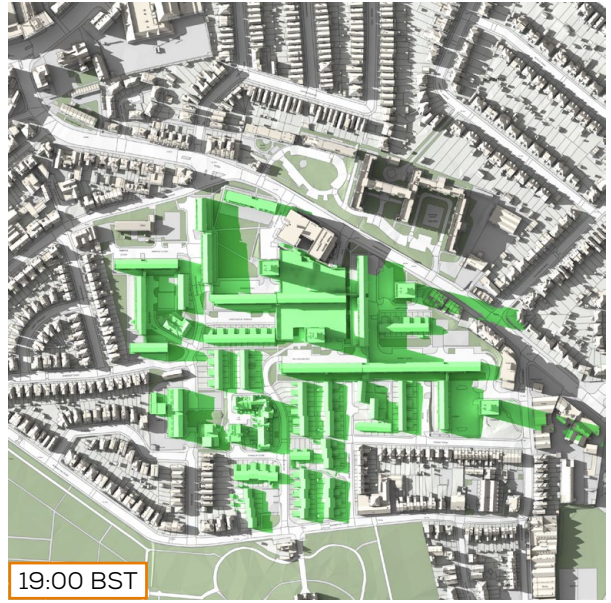
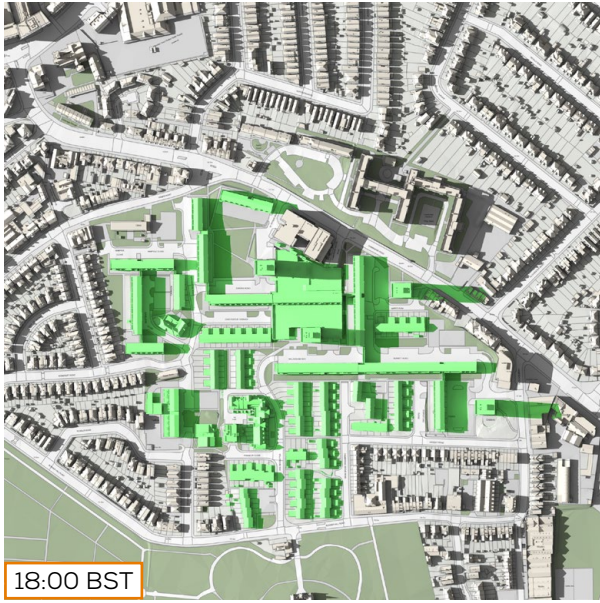


PROPOSED

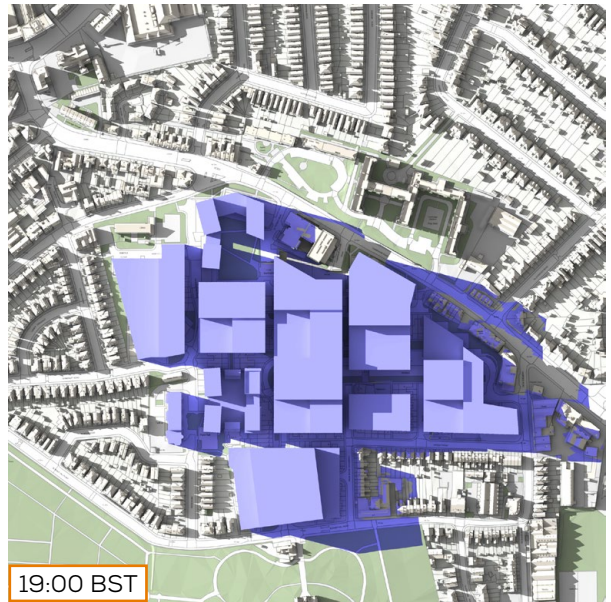
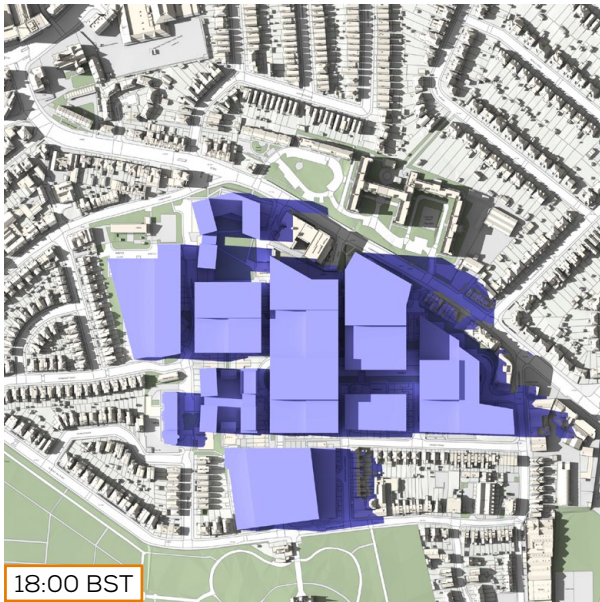


TRANSIENT OVERSHADOWING ASSESSMENT
21ST JUNE (18:00 - 20:00 BST)

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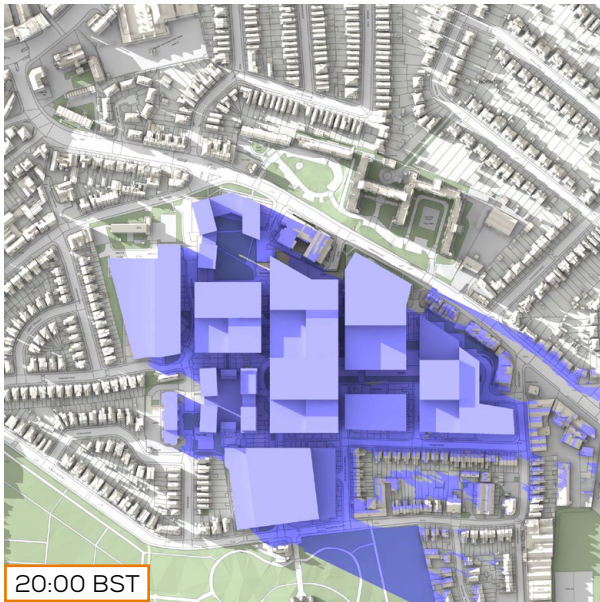
PROPOSED



EXISTING

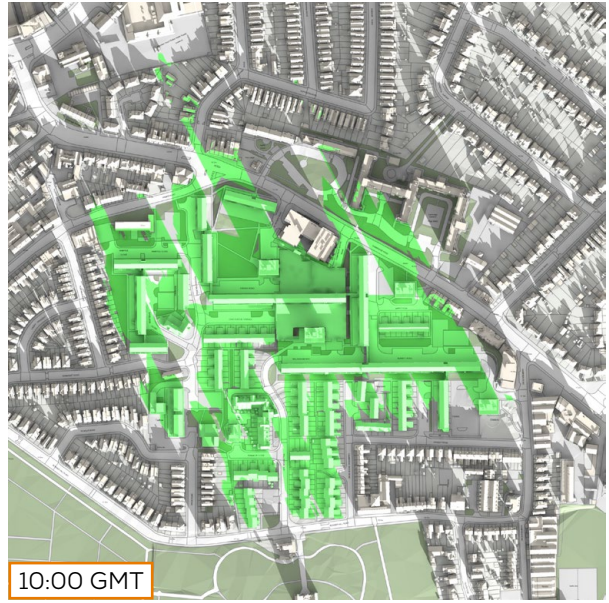
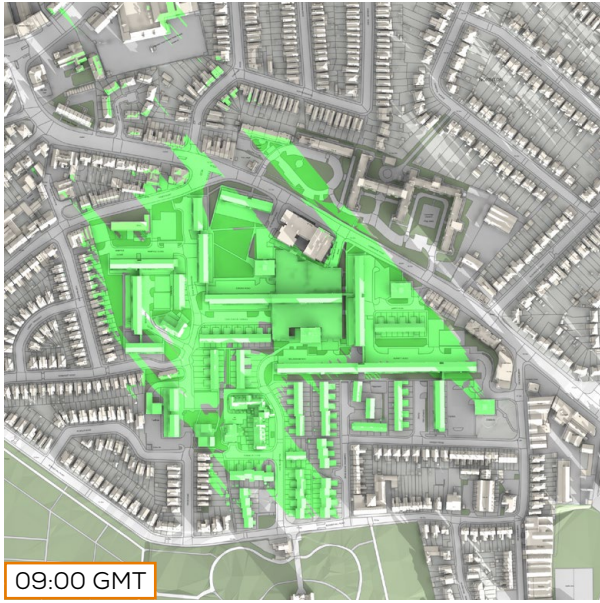


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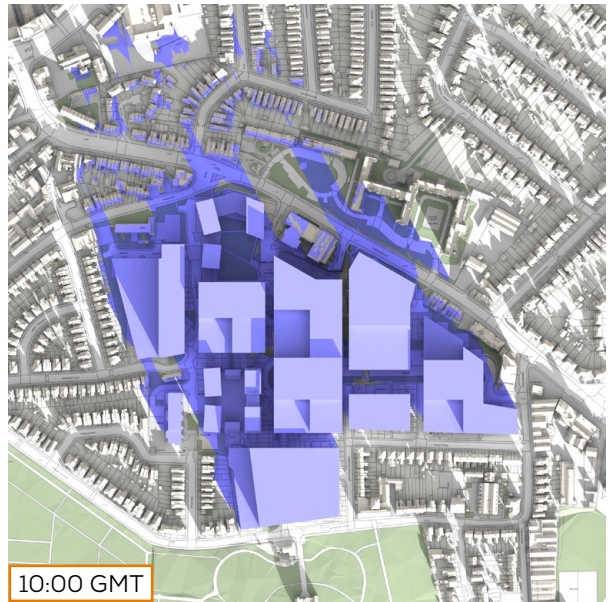
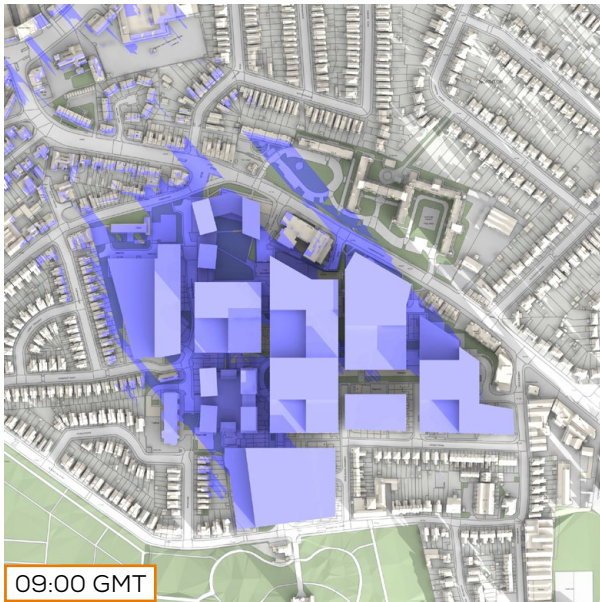


TRANSIENT OVERSHADOWING ASSESSMENT
21ST DECEMBER (09:00 - 12:00 GMT)

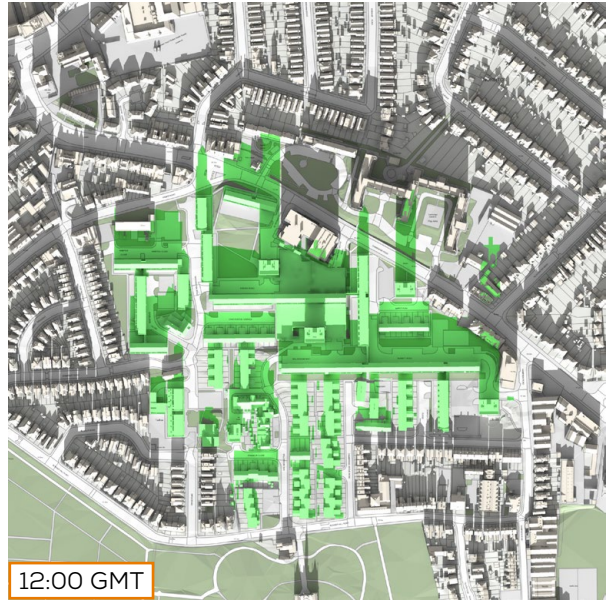
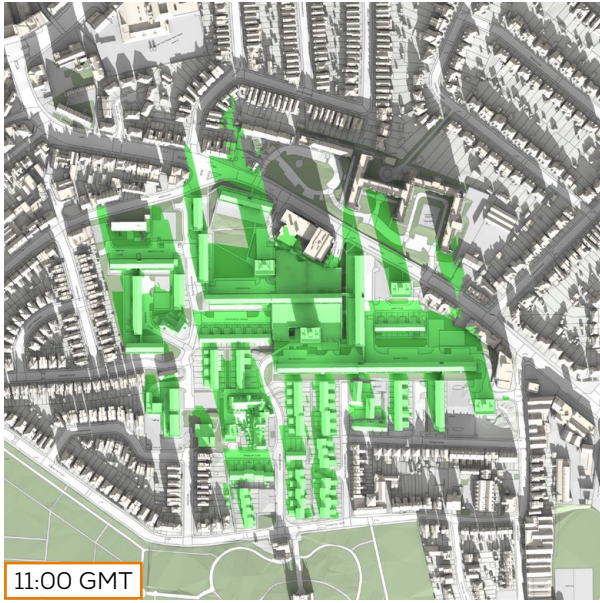
EXISTING



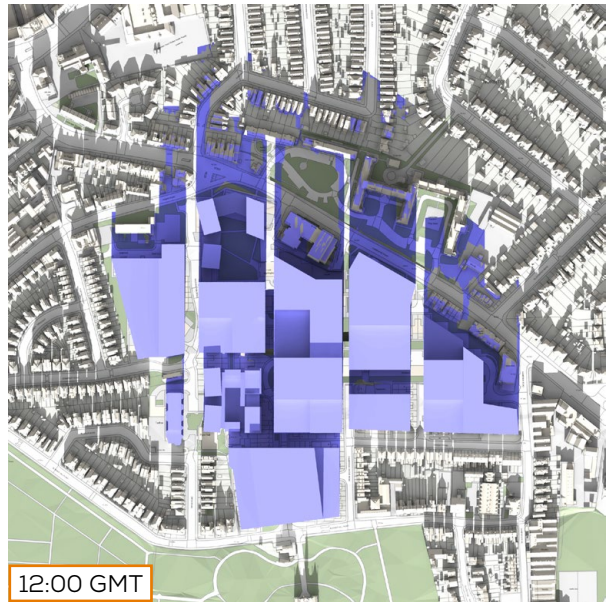
PROPOSED



EXISTING

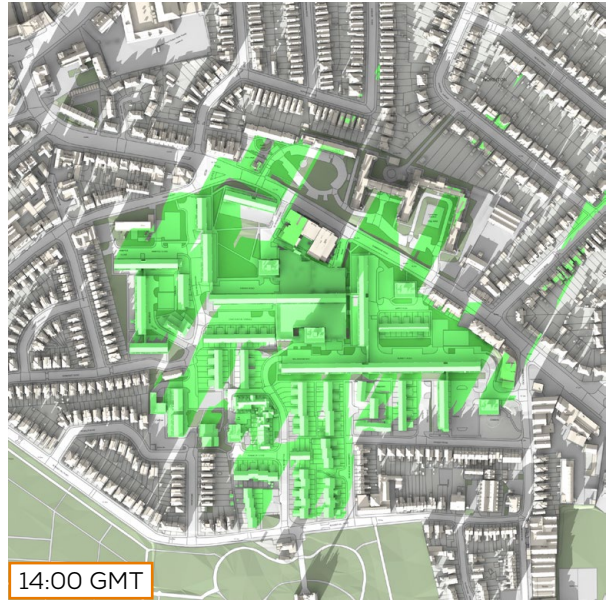
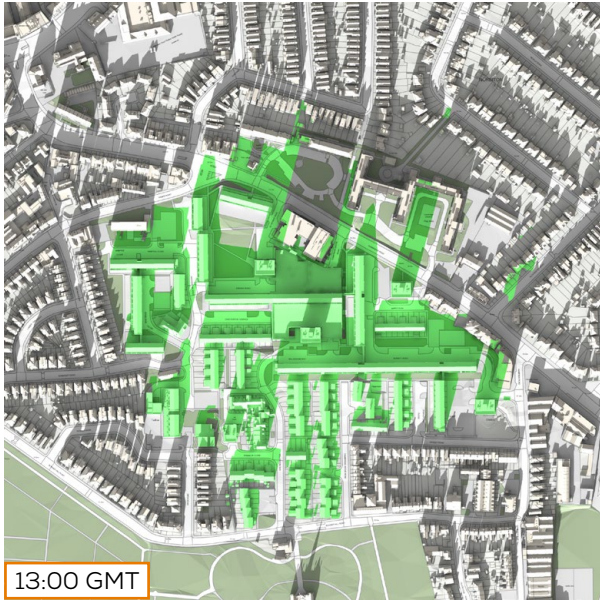


PROPOSED

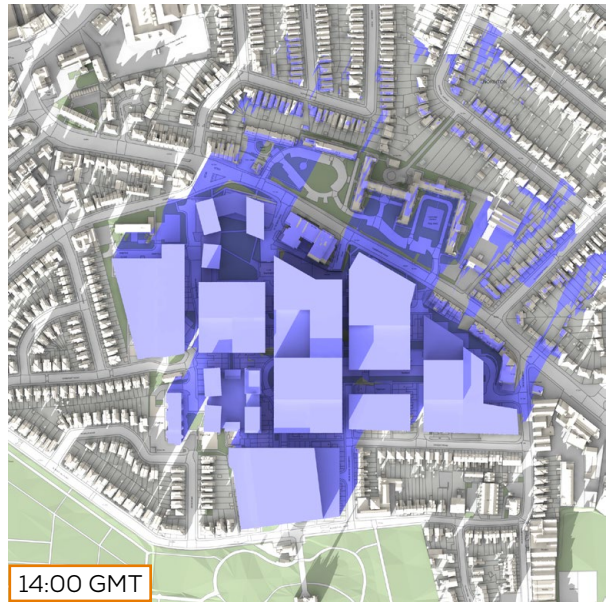
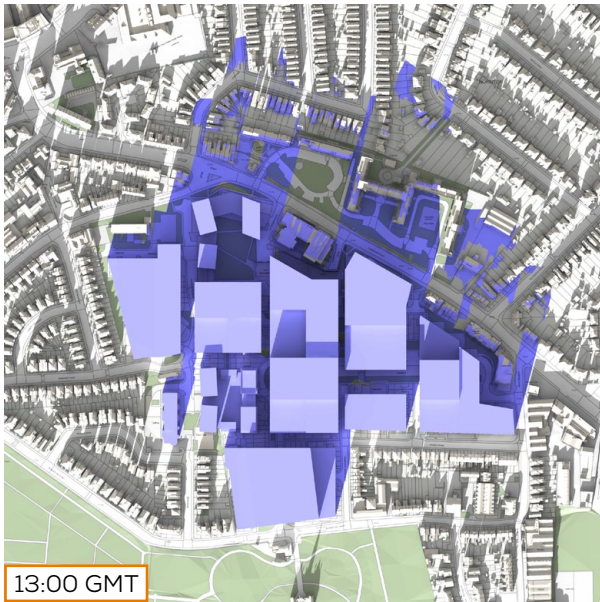


TRANSIENT OVERSHADOWING ASSESSMENT
21ST DECEMBER (13:00 - 15:00 GMT)

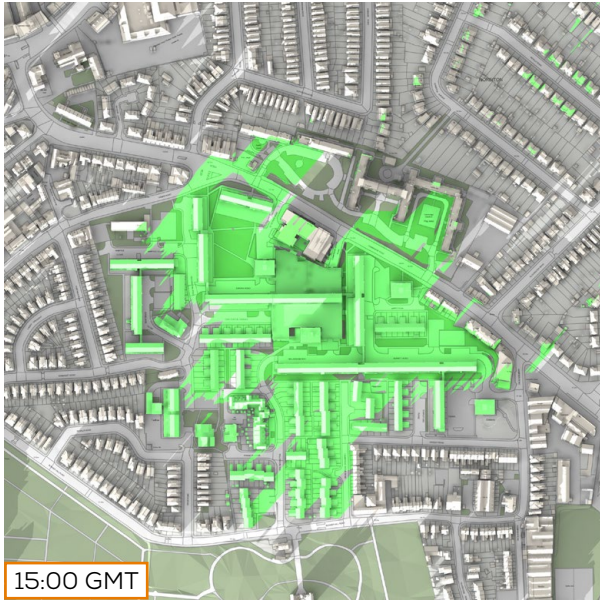
EXISTING



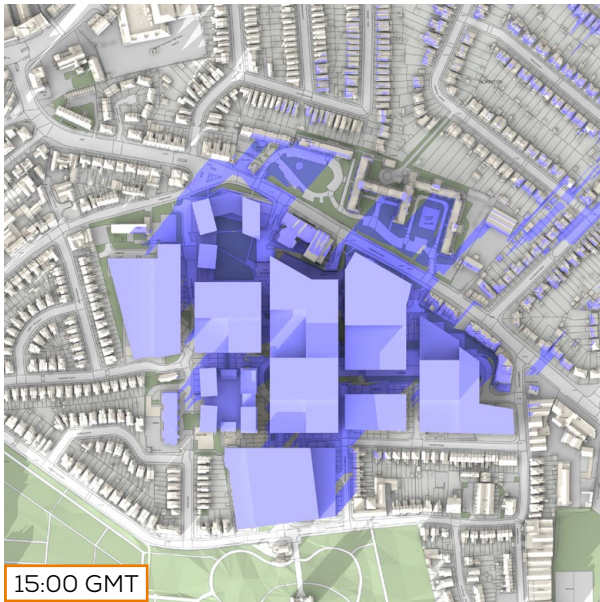
PROPOSED



EXISTING



PROPOSED



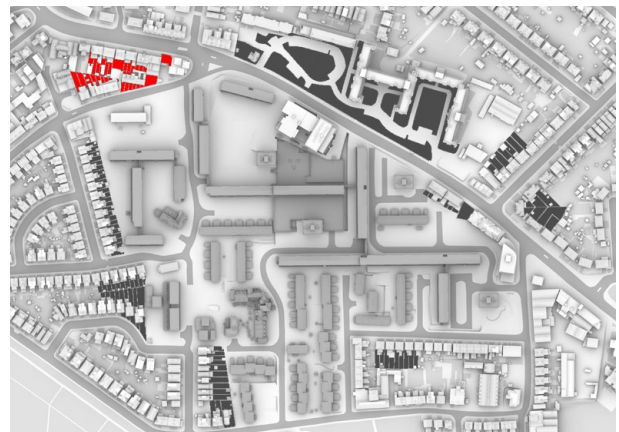
2 OVERSHADOWING ASSESSMENTS

OVERSHADOWING ASSESSMENT - EXISTING SCENARIO SUN HOURS ON GROUND - BRE TEST - 21ST MARCH



(BRE RECOMMENDS 2+ HOURS OF SUNLIGHT ON 21ST MARCH FOR AT LEAST 50% OF THE OPEN SPACE)

SUN HOURS ON GROUND
BRE TEST - 21ST MARCH



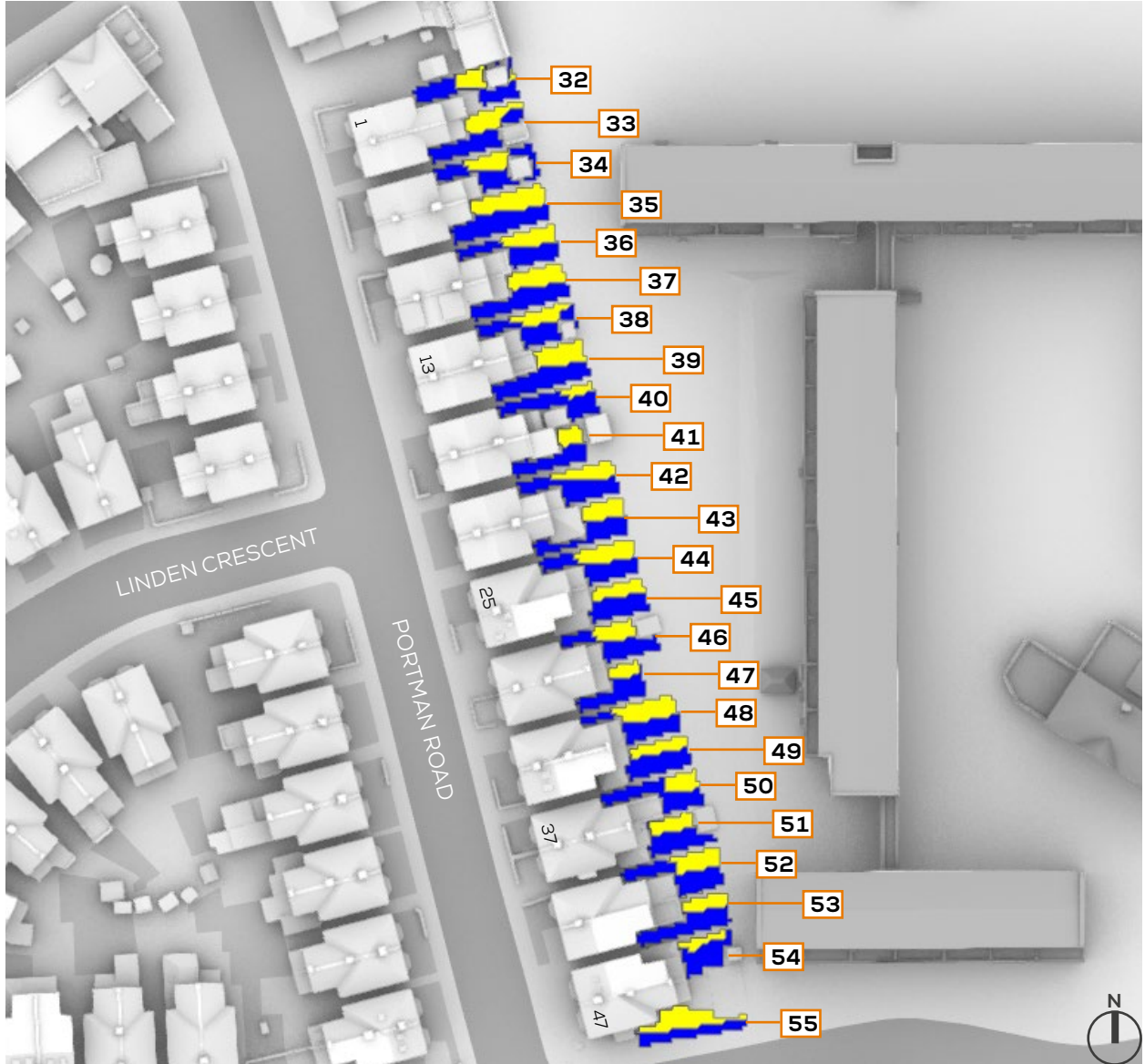
OVERSHADOWING ASSESSMENT - PROPOSED SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH



% AREA SEEING 2+ HRS OF SUNLIGHT ON 21ST MARCH

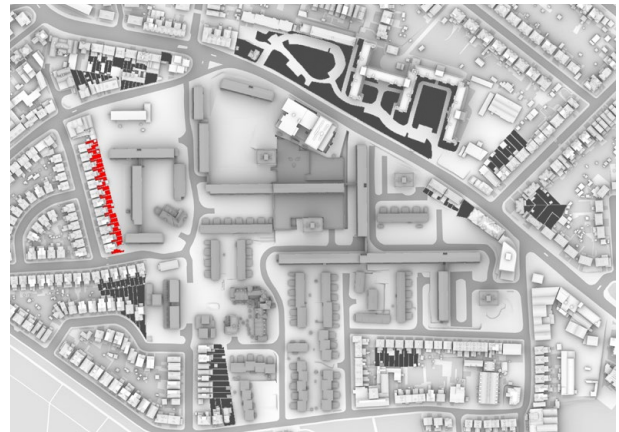
AREA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
EXISTING	64	34	44	42	6	0	52	57	0	69	67	74	35	66	84	55
PROPOSED	64	34	44	42	6	0	52	57	0	65	67	74	35	66	84	55
LOSS	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
% LOSS	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
AREA	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
EXISTING	54	54	28	42	30	15	0	0	100	100	100	100	100	100	100	
PROPOSED	54	54	28	42	30	15	0	0	100	100	100	100	100	100	100	
LOSS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% LOSS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

OVERSHADOWING ASSESSMENT - EXISTING SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH

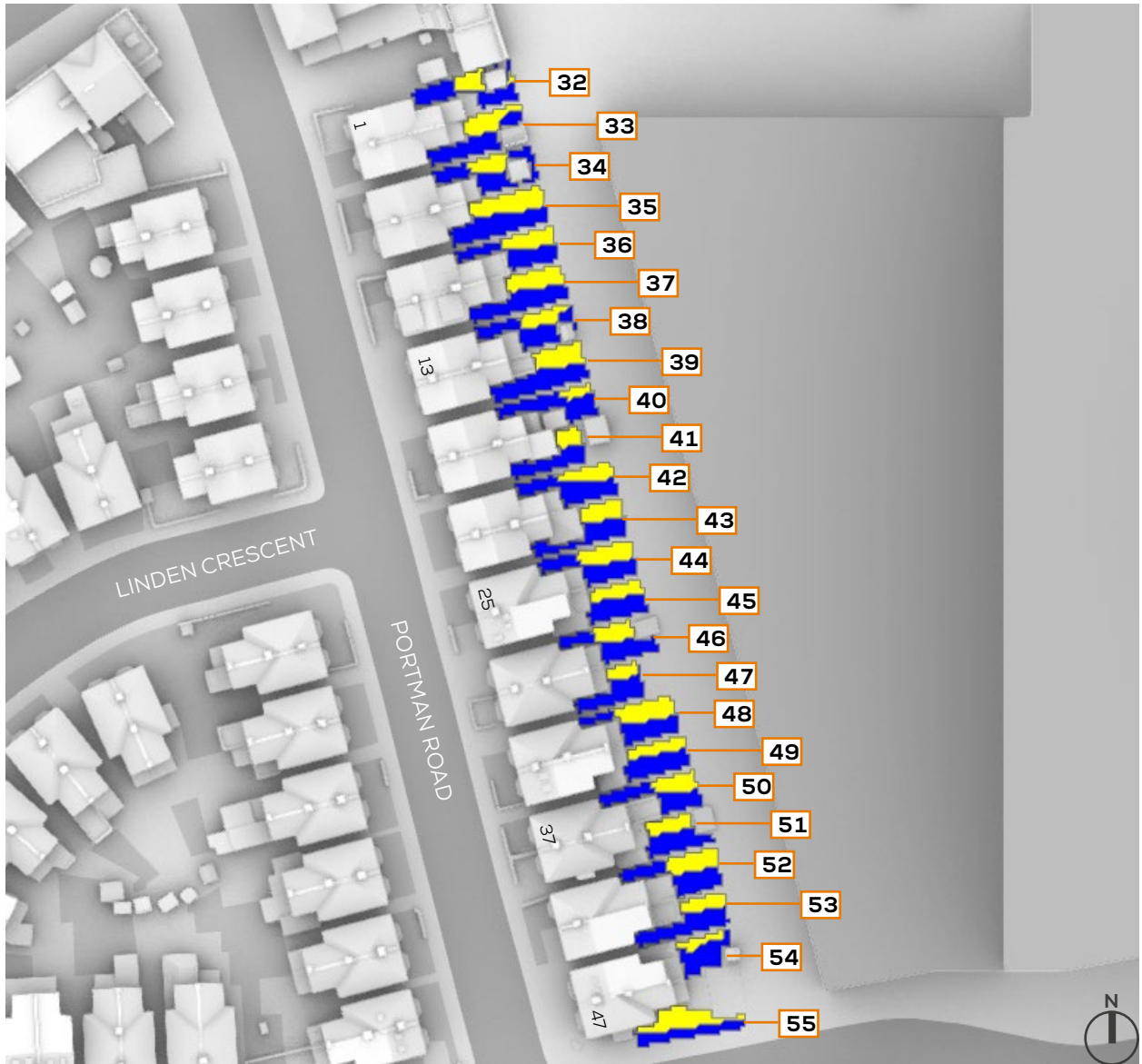


(BRE RECOMMENDS 2+ HOURS OF SUNLIGHT ON 21ST MARCH FOR AT LEAST 50% OF THE OPEN SPACE)

SUN HOURS ON GROUND
BRE TEST - 21ST MARCH



OVERSHADOWING ASSESSMENT - PROPOSED SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH



% AREA SEEING 2+ HRS OF SUNLIGHT ON 21ST MARCH

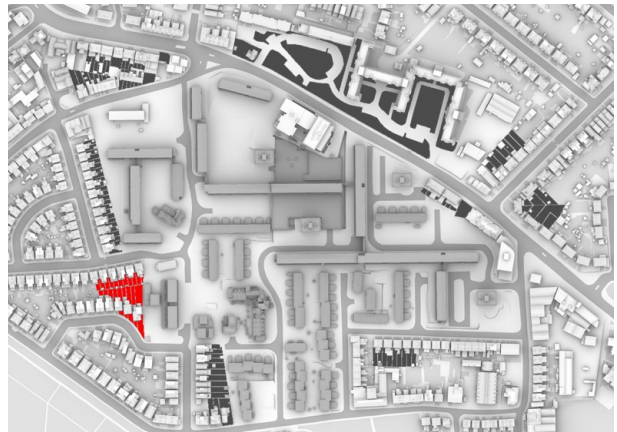
AREA	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
EXISTING	25	35	26	42	35	37	30	36	18	27	32	34	38	38	30	24
PROPOSED	26	35	24	42	35	37	26	35	16	27	30	34	36	38	30	24
LOSS	-1	0	2	0	1	0	4	1	1	0	2	0	2	0	1	0
% LOSS	-2	0	7	0	2	0	12	1	8	0	7	0	4	0	2	0
AREA	48	49	50	51	52	53	54	55								
EXISTING	44	36	25	34	35	28	27	54								
PROPOSED	43	36	31	37	37	28	27	54								
LOSS	1	-1	-6	-2	-3	0	0	0								
% LOSS	3	-2	-24	-7	-8	0	0	0								

OVERSHADOWING ASSESSMENT - EXISTING SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH

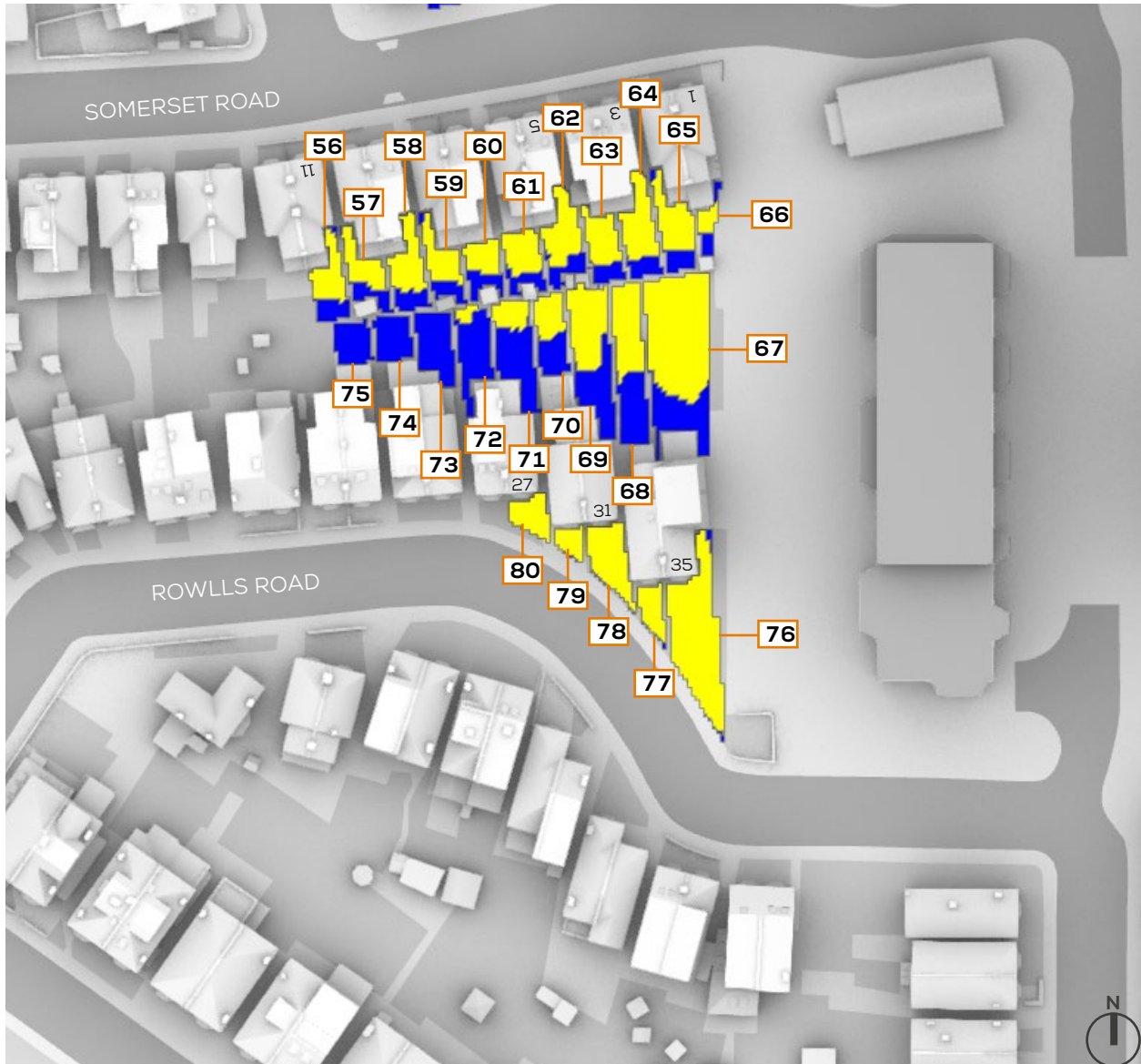


(BRE RECOMMENDS 2+ HOURS OF SUNLIGHT ON 21ST MARCH FOR AT LEAST 50% OF THE OPEN SPACE)

SUN HOURS ON GROUND
BRE TEST - 21ST MARCH



OVERSHADOWING ASSESSMENT - PROPOSED SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH



% AREA SEEING 2+ HRS OF SUNLIGHT ON 21ST MARCH

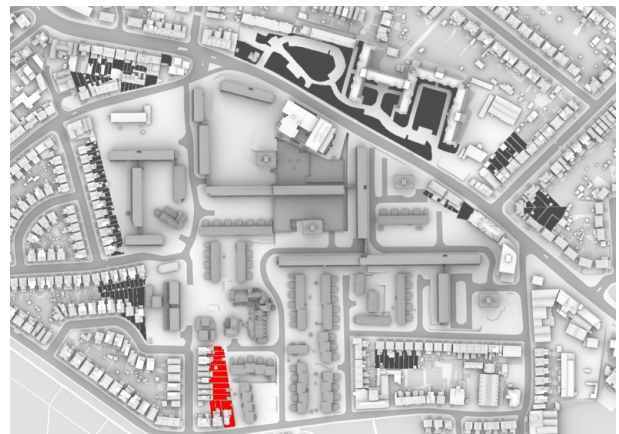
AREA	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
EXISTING	66	65	73	67	59	67	70	71	75	72	36	69	56	54	51	27
PROPOSED	66	65	73	67	59	67	70	71	75	72	49	71	56	53	51	27
LOSS	0	0	0	0	0	0	0	0	0	0	-13	-2	0	1	0	0
% LOSS	0	0	0	0	0	0	0	0	0	0	-36	-3	1	1	0	0
AREA	72	73	74	75	76	77	78	79	80							
EXISTING	11	0	0	0	100	94	100	94	96							
PROPOSED	11	0	0	0	100	94	96	91	96							
LOSS	0	0	0	0	0	0	4	2	0							
% LOSS	0	0	0	0	0	0	4	2	0							

OVERSHADOWING ASSESSMENT - EXISTING SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH

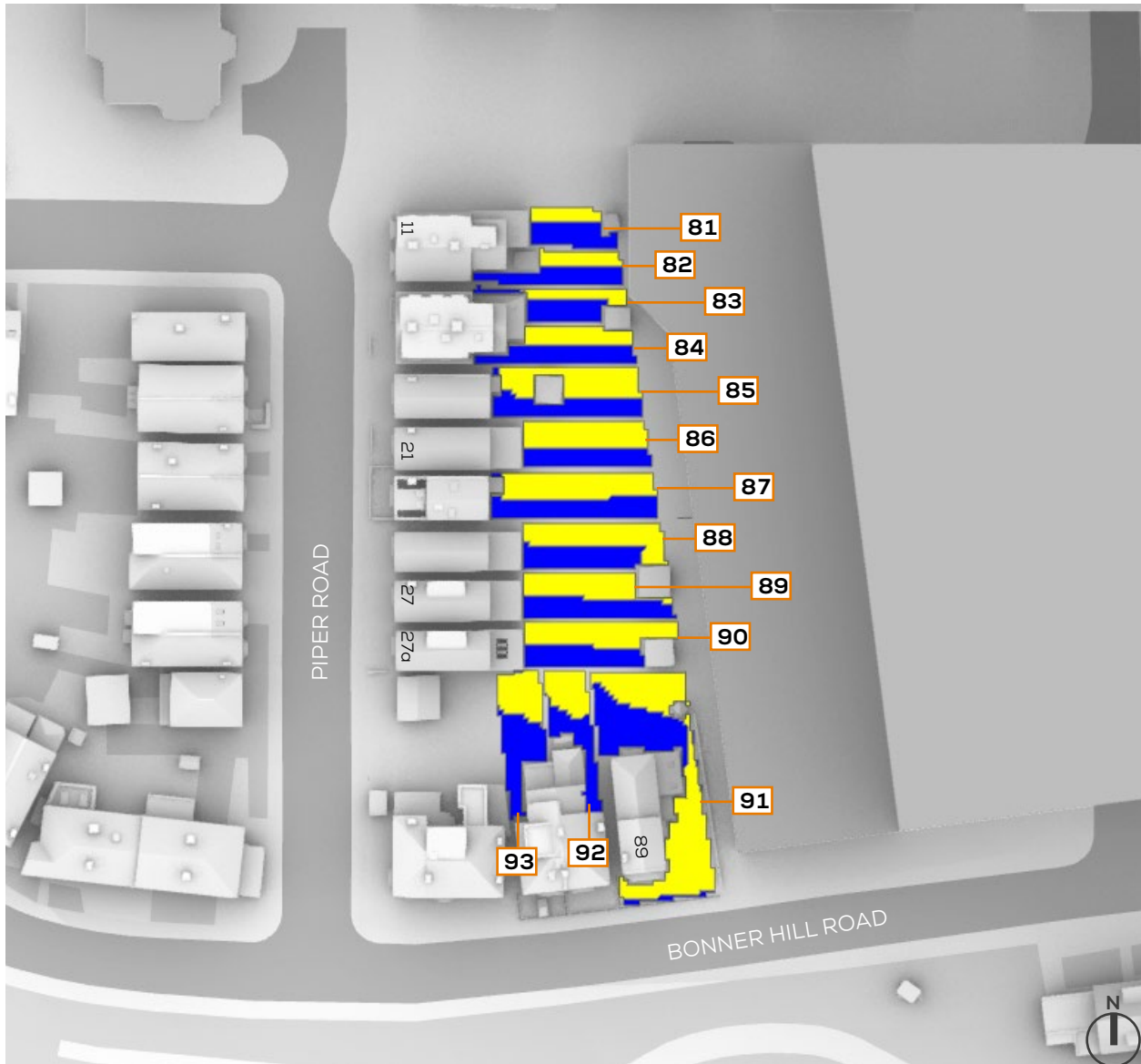


(BRE RECOMMENDS 2+ HOURS OF SUNLIGHT ON 21ST MARCH FOR AT LEAST 50% OF THE OPEN SPACE)

SUN HOURS ON GROUND
BRE TEST - 21ST MARCH



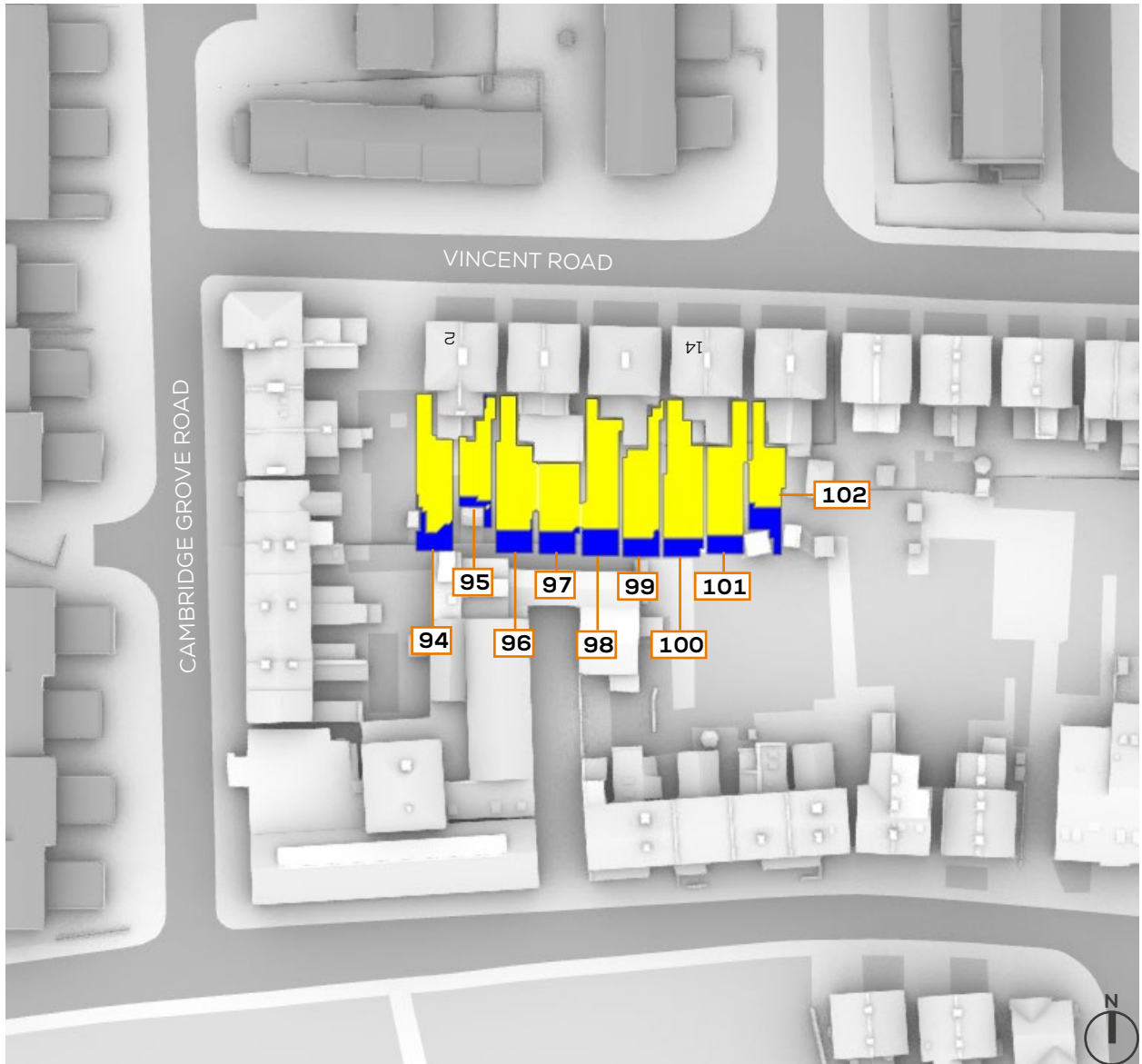
OVERSHADOWING ASSESSMENT - PROPOSED SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH



% AREA SEEING 2+ HRS OF SUNLIGHT ON 21ST MARCH

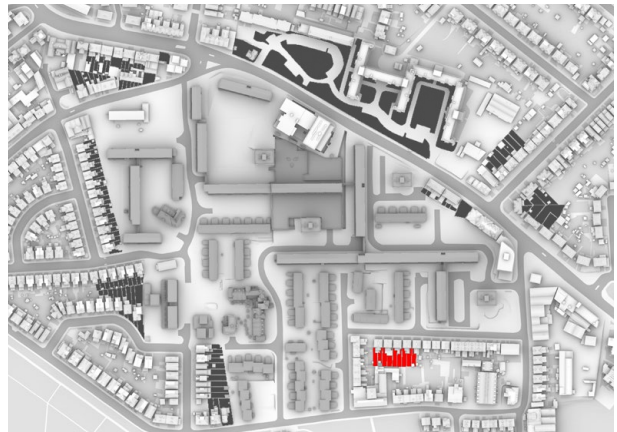
AREA	81	82	83	84	85	86	87	88	89	90	91	92	93
EXISTING	34	34	30	42	51	58	54	49	49	52	72	43	39
PROPOSED	34	34	29	42	49	58	53	49	49	51	63	42	39
LOSS	0	0	1	0	3	0	1	0	0	1	9	1	0
% LOSS	0	0	3	0	5	0	2	0	0	2	12	2	0

OVERSHADOWING ASSESSMENT - EXISTING SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH

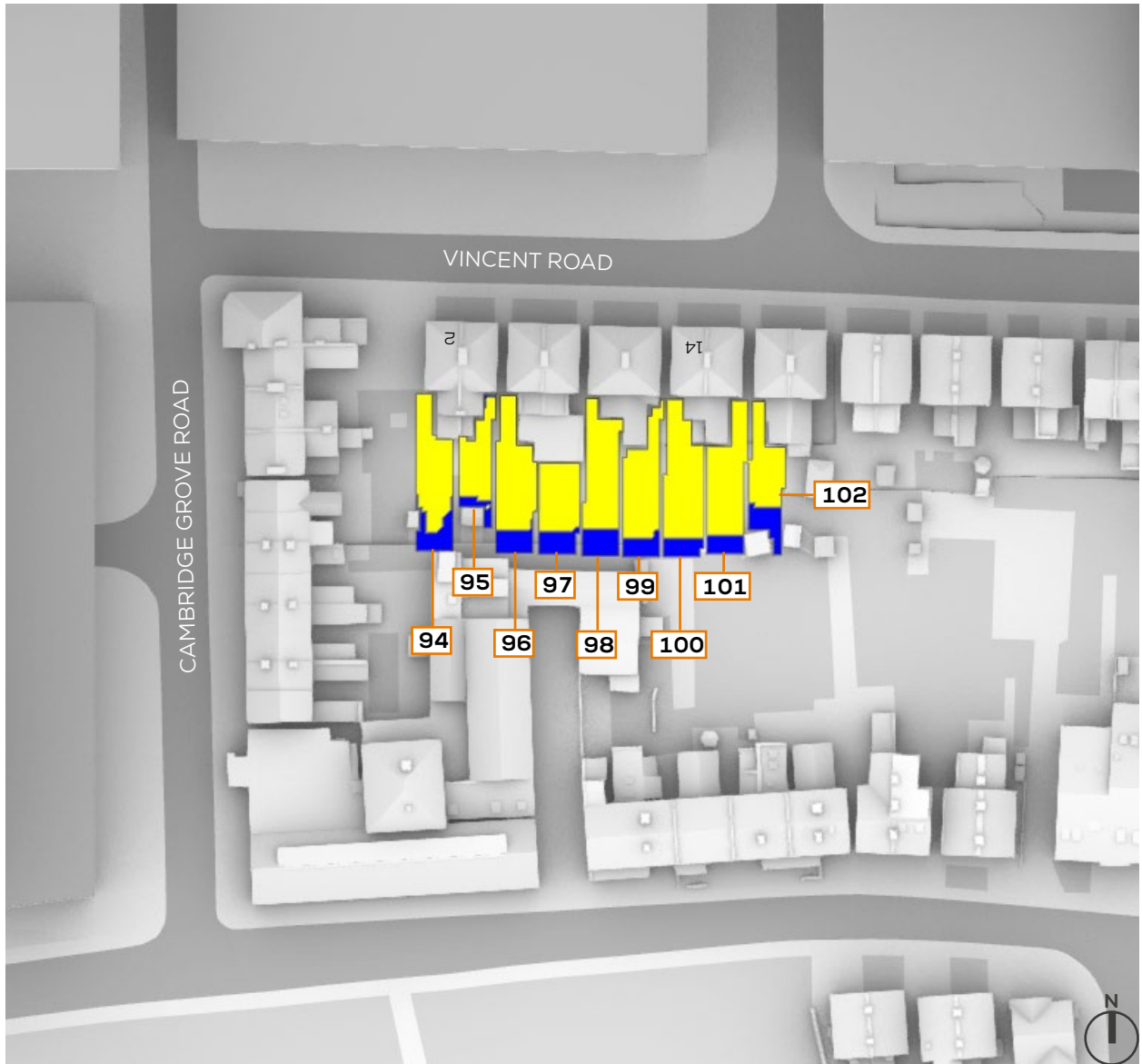


(BRE RECOMMENDS 2+ HOURS OF SUNLIGHT ON 21ST MARCH FOR AT LEAST 50% OF THE OPEN SPACE)

SUN HOURS ON GROUND
BRE TEST - 21ST MARCH



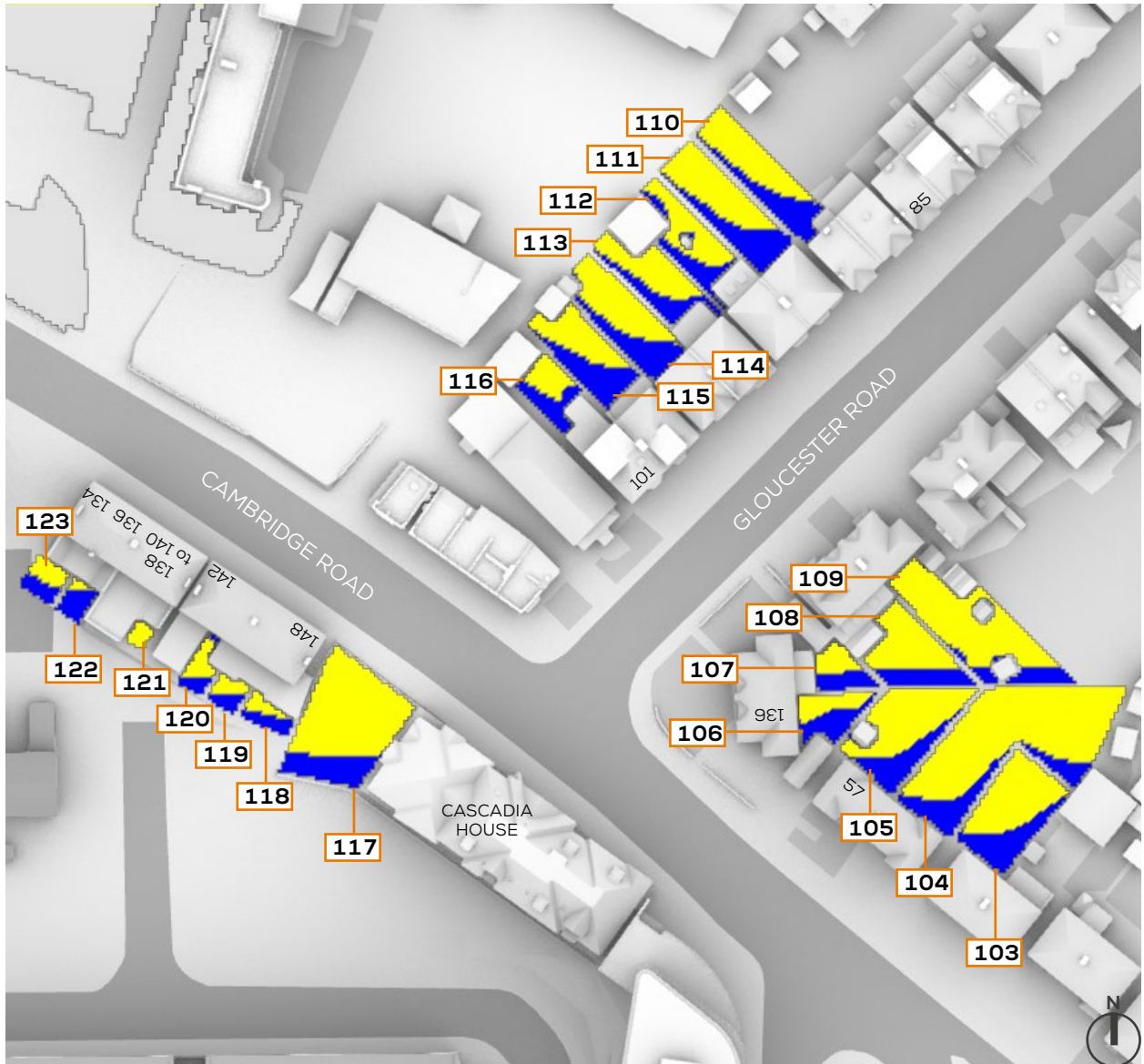
OVERSHADOWING ASSESSMENT - PROPOSED SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH



% AREA SEEING 2+ HRS OF SUNLIGHT ON 21ST MARCH

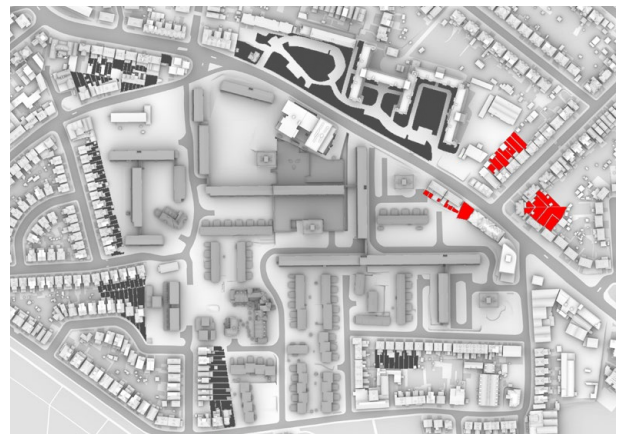
AREA	94	95	96	97	98	99	100	101	102
EXISTING	78	80	81	75	80	83	86	85	71
PROPOSED	74	80	81	75	80	83	86	85	71
LOSS	3	0	0	0	0	0	0	0	0
% LOSS	4	0	0	0	0	0	0	0	0

OVERSHADOWING ASSESSMENT - EXISTING SCENARIO
 SUN HOURS ON GROUND - BRE TEST - 21ST MARCH



(BRE RECOMMENDS 2+ HOURS OF SUNLIGHT ON 21ST MARCH FOR AT LEAST 50% OF THE OPEN SPACE)

SUN HOURS ON GROUND
 BRE TEST - 21ST MARCH



OVERSHADOWING ASSESSMENT - PROPOSED SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH



% AREA SEEING 2+ HRS OF SUNLIGHT ON 21ST MARCH

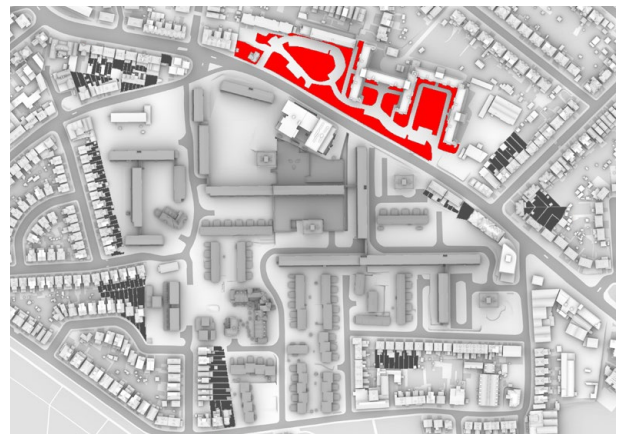
AREA	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
EXISTING	64	79	68	47	50	69	81	60	59	59	61	60	52	47	78	44
PROPOSED	64	79	65	44	50	69	80	60	59	58	60	60	52	47	4	0
LOSS	0	0	3	2	0	0	0	0	0	1	1	1	1	0	74	44
% LOSS	0	0	4	5	0	0	0	0	0	1	2	1	1	0	95	100
AREA	119	120	121	122	123											
EXISTING	52	58	100	21	54											
PROPOSED	0	0	12	0	36											
LOSS	52	58	88	21	18											
% LOSS	100	100	88	100	33											

OVERSHADOWING ASSESSMENT - EXISTING SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH

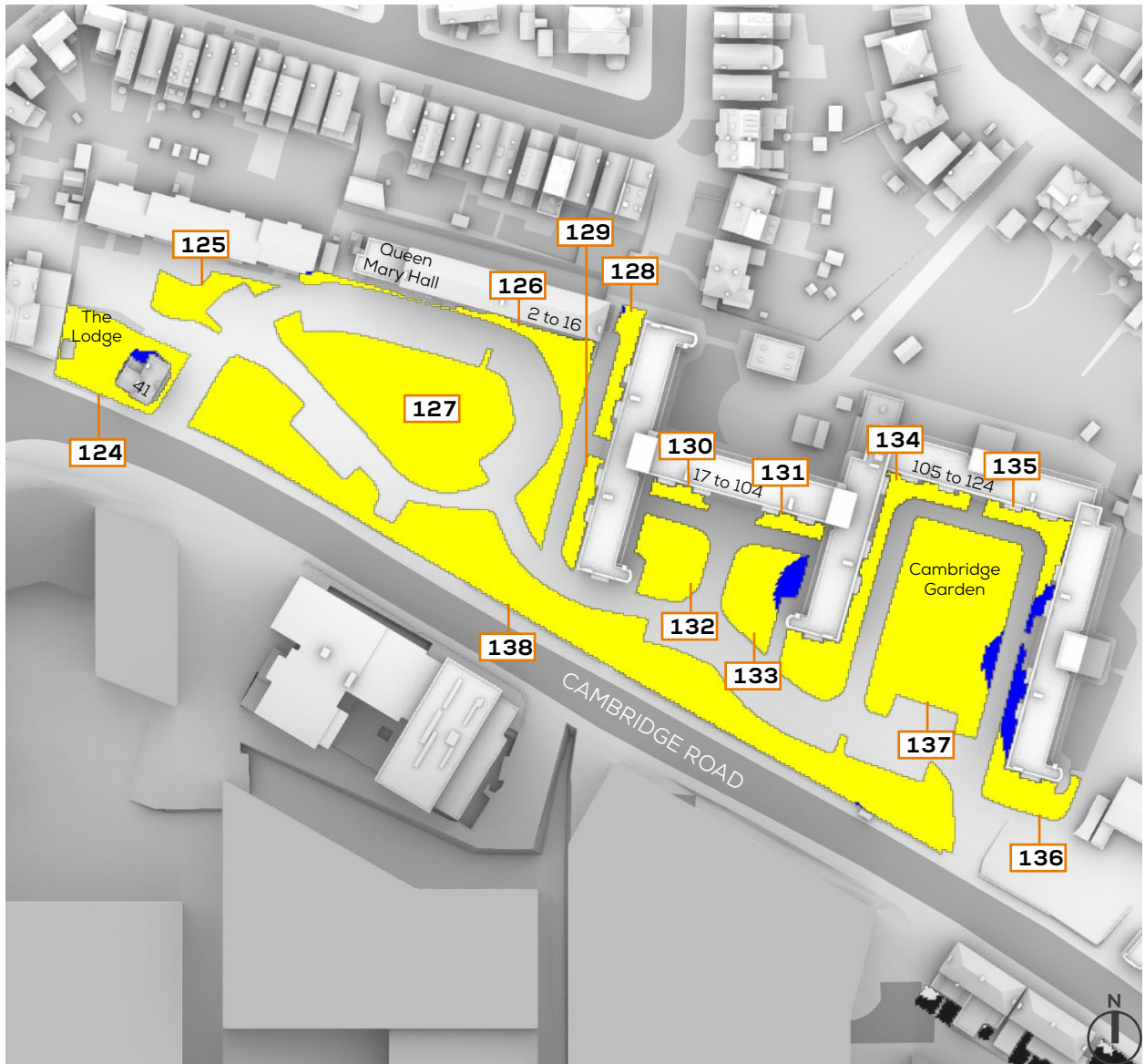


(BRE RECOMMENDS 2+ HOURS OF SUNLIGHT ON 21ST MARCH FOR AT LEAST 50% OF THE OPEN SPACE)

SUN HOURS ON GROUND
BRE TEST - 21ST MARCH



OVERSHADOWING ASSESSMENT - PROPOSED SCENARIO
SUN HOURS ON GROUND - BRE TEST - 21ST MARCH



% AREA SEEING 2+ HRS OF SUNLIGHT ON 21ST MARCH

AREA	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138
EXISTING	97	100	100	100	98	100	100	100	100	100	100	100	100	100	100
PROPOSED	95	100	100	100	98	100	100	100	100	83	100	80	72	97	100
LOSS	1	0	0	0	0	0	0	0	0	17	0	20	28	3	0
% LOSS	1	0	0	0	0	0	0	0	0	17	0	20	28	3	0