

APPENDIX 11.5

OPERATIONAL NOISE ASSESSMENT

Appendix 11.5: Operational Noise Assessment

Table A11.5.1: Daytime traffic flows for opening year

Link ID	Road	Traffic Flow ⁽¹⁾		
		2019 base	Opening year (2026) without development	Opening year (2026) with development
A	Radwinter Road, East of Site Access	4,301 (0.6)	6,430 (1.2)	6,524 (1.1)
B	Site Access	-(2)	-(2)	1,508 (0)
C	Radwinter Road, between Site Access and Proposed Link Road	4,301 (0.6)	6,422 (1.1)	7,837 (0.9)
D	Proposed Link Road, South of Radwinter Road	-(2)	3,407 (2.8)	3,809 (2.5)
E	Proposed Link Road, East of Thaxted Road	-(2)	3,628 (2.7)	4,029 (2.4)
F	Radwinter Road, West of Proposed Link Road	4,301 (0.6)	7,502 (1.1)	8,515 (1.0)
G	Radwinter Road, East of Elizabeth Way	9,153 (2.1)	13,582 (1.6)	14,594 (1.5)
H	Elizabeth Way, North of Radwinter Road	5,650 (3.5)	10,447 (2.4)	11,011 (2.3)
I	Radwinter Road, West of Elizabeth Way	9,612 (3.5)	13,096 (2.8)	13,544 (2.7)
J	Elizabeth Way, South of Ashdon Road	5,670 (4.7)	10,472 (3.1)	11,037 (2.9)
K	Ashdon Road, East of Elizabeth Way	5,053 (6.1)	10,739 (3.5)	10,821 (3.5)
L	Ashdon Road, West of Elizabeth Way	5,252 (1.6)	8,997 (1.2)	9,479 (1.1)
M	Ashdon Road, East of Chaters Hill	5,946 (1.7)	9,766 (1.3)	10,249 (1.2)
N	Chaters Hill, South of Ashdon Road	1,895 (2.6)	2,137 (2.3)	2,137 (2.3)
O	Ashdon Road, West of Chaters Hill	7,200 (2.1)	11,220 (1.5)	11,702 (1.5)
P	Ashdon Road, East of Castle Hill	6,994 (1.8)	11,114 (1.4)	11,597 (1.4)
Q	Common Hill	5,934 (1.4)	7,928 (1.3)	7,928 (1.3)
R	Castle Hill, North of Ashdon Road	7,908 (1.3)	10,809 (1.0)	11,010 (0.9)
S	Castle Hill, South of Pound Walk	8,014 (1.6)	10,901 (1.2)	11,103 (1.2)
T	Little Walden Road	6,915 (1.9)	9,029 (1.4)	9,075 (1.4)
U	Castle Street, West of Castle Hill	3,582 (1.3)	4,767 (1.0)	4,922 (1.0)
V	Castle Street, East of High Street	3,289 (1.3)	4,684 (1.8)	4,841 (1.8)
W	Bridge Street	11,047 (1.8)	14,365 (2.1)	14,861 (2.0)
X	High Street, South of Castle Street	9,403 (1.8)	11,007 (2.6)	11,705 (2.5)
Y	High Street, North of Church Street	9,290 (1.9)	11,297 (2.6)	11,702 (2.5)
Z	Church Street, East of High Street	4,201 (2.0)	4,952 (1.6)	5,233 (1.5)
A1	High Street, North of Abbey Lane	8,080 (2.4)	8,537 (3.4)	8,727 (3.3)
B1	George Street/Hill Street	6,623 (2.7)	7,288 (3.4)	7,574 (3.2)
C1	High Street, South of Abbey Lane	11,506 (2.3)	12,395 (3.8)	12,557 (3.7)
D1	High Street, North of Audley Road	11,823 (2.5)	12,830 (3.8)	12,991 (3.7)
E1	Audley Road	5,965 (2.5)	7,120 (3.3)	7,283 (3.2)
F1	Debden Road, South of Audley Road	14,238 (2.4)	15,590 (3.5)	15,849 (3.4)
G1	London Road, North of Borough Lane	10,792 (2.5)	11,075 (4.3)	11,334 (4.2)
H1	Borough Lane, East of London Road	4,631 (1.8)	5,949 (1.0)	6,171 (1.0)
I1	London Road, South of Borough Lane	14,394 (2.5)	16,174 (3.3)	16,654 (3.2)
J1	Audley End Road	9,622 (2.1)	10,892 (2.6)	10,995 (2.6)
K1	Newport	7,977 (2.9)	8,690 (3.9)	9,072 (3.7)
L1	Borough Lane, West of Debden Road	4,359 (1.7)	6,144 (1.2)	6,366 (1.1)
M1	Debden Road, North of Borough Lane	5,791 (2.1)	5,992 (1.4)	5,992 (1.4)
N1	Mount Pleasant, East of Debden Road	6,136 (1.9)	8,410 (1.5)	8,632 (1.5)
P1	Thaxted Road, South of Peaslands Road	8,355 (2.3)	10,642 (1.8)	10,960 (1.7)
Q1	Thaxted Road, North of Peaslands Road	9,076 (1.1)	11,567 (1.5)	11,787 (1.5)
R1	Thaxted Road, North of Proposed Link Road	8,355 (2.3)	10,524 (1.8)	10,843 (1.7)
S1	Thaxted Road, South of Proposed Link Road	8,355 (2.3)	9,521 (2.0)	9,604 (2.0)
T1	Thaxted Road, South of Shire Hill	9,293 (3.5)	13,067 (2.6)	13,164 (2.6)

Link ID	Road	Traffic Flow ⁽¹⁾		
		2019 base	Opening year (2026) without development	Opening year (2026) with development
U1	Shire Hill	5,783 (5.2)	7,509 (4.0)	7,606 (4.0)
V1	Thaxted Road, North of Shire Hill	8,896 (3.6)	11,410 (2.9)	11,410 (2.9)
W1	Thaxted Road, South of Radwinter Road	9,053 (2.9)	9,170 (2.6)	9,170 (2.6)
X1	East Street	8,955 (3.6)	10,931 (2.7)	11,378 (2.6)
Y1	Chaters Hill, North of Radwinter Road	2,085 (1.8)	2,321 (2.6)	2,321 (2.6)
Z1	Radwinter Road, East of Chaters Hill	10,215 (3.8)	11,127 (2.8)	11,575 (2.7)
A2	Church Street, West of Castle Hill	4,917 (2.2)	6,579 (1.9)	6,860 (1.8)
Notes:				
⁽¹⁾ Traffic flow in terms of vehicle movements between 06:00 and 24:00 hours, with percentage of heavy goods vehicles in brackets.				
⁽²⁾ No flow				

Table A11.5.2: Daytime traffic flows for peak flow within 15 years of opening year

Link ID	Road	Traffic Flow ⁽¹⁾		
		2019 base	2041 without development	2041 with development
A	Radwinter Road, East of Site Access	4,301 (0.6)	7,066 (1.1)	7,169 (1.1)
B	Site Access	-(2)	-(2)	1,657 (0)
C	Radwinter Road, between Site Access and Proposed Link Road	4,301 (0.6)	7,057 (1.1)	8,612 (0.9)
D	Proposed Link Road, South of Radwinter Road	-(2)	3,744 (2.9)	4,186 (2.6)
E	Proposed Link Road, East of Thaxted Road	-(2)	3,987 (2.7)	4,427 (2.4)
F	Radwinter Road, West of Proposed Link Road	4,301 (0.6)	8,244 (1.2)	9,357 (1.0)
G	Radwinter Road, East of Elizabeth Way	9,153 (2.1)	14,925 (1.6)	16,037 (1.5)
H	Elizabeth Way, North of Radwinter Road	5,650 (3.5)	11,480 (2.4)	12,100 (2.3)
I	Radwinter Road, West of Elizabeth Way	9,612 (3.5)	14,391 (2.8)	14,884 (2.7)
J	Elizabeth Way, South of Ashdon Road	5,670 (4.7)	11,508 (3.1)	12,129 (2.9)
K	Ashdon Road, East of Elizabeth Way	5,053 (6.1)	11,801 (3.5)	11,891 (3.5)
L	Ashdon Road, West of Elizabeth Way	5,252 (1.6)	9,887 (1.2)	10,416 (1.1)
M	Ashdon Road, East of Chaters Hill	5,946 (1.7)	10,732 (1.3)	11,263 (1.2)
N	Chaters Hill, South of Ashdon Road	1,895 (2.6)	2,348 (2.3)	2,348 (2.3)
O	Ashdon Road, West of Chaters Hill	7,200 (2.1)	12,330 (1.5)	12,859 (1.5)
P	Ashdon Road, East of Castle Hill	6,994 (1.8)	12,213 (1.4)	12,744 (1.4)
Q	Common Hill	5,934 (1.4)	8,712 (1.3)	8,712 (1.3)
R	Castle Hill, North of Ashdon Road	7,908 (1.3)	11,878 (1.0)	12,099 (0.9)
S	Castle Hill, South of Pound Walk	8,014 (1.6)	11,979 (1.2)	12,201 (1.2)
T	Little Walden Road	6,915 (1.9)	9,922 (1.4)	9,973 (1.4)
U	Castle Street, West of Castle Hill	3,582 (1.3)	5,238 (1.0)	5,409 (1.0)
V	Castle Street, East of High Street	3,289 (1.3)	5,147 (1.8)	5,320 (1.8)
W	Bridge Street	11,047 (1.8)	15,786 (2.1)	16,331 (2.0)
X	High Street, South of Castle Street	9,403 (1.8)	12,096 (2.6)	12,863 (2.5)
Y	High Street, North of Church Street	9,290 (1.9)	12,414 (2.6)	12,859 (2.5)
Z	Church Street, East of High Street	4,201 (2.0)	5,442 (1.6)	5,751 (1.5)
A1	High Street, North of Abbey Lane	8,080 (2.4)	9,381 (3.4)	9,590 (3.3)
B1	George Street/Hill Street	6,623 (2.7)	8,009 (3.4)	8,323 (3.2)
C1	High Street, South of Abbey Lane	11,506 (2.3)	13,621 (3.8)	13,799 (3.7)
D1	High Street, North of Audley Road	11,823 (2.5)	14,099 (3.8)	14,276 (3.7)
E1	Audley Road	5,965 (2.5)	7,824 (3.3)	8,003 (3.2)

Link ID	Road	Traffic Flow ⁽¹⁾		
		2019 base	2041 without development	2041 with development
F1	Debden Road, South of Audley Road	14,238 (2.4)	17,132 (3.5)	17,416 (3.4)
G1	London Road, North of Borough Lane	10,792 (2.5)	12,170 (4.3)	12,455 (4.2)
H1	Borough Lane, East of London Road	4,631 (1.8)	6,537 (1.0)	6,781 (1.0)
I1	London Road, South of Borough Lane	14,394 (2.5)	17,774 (3.3)	18,301 (3.2)
J1	Audley End Road	9,622 (2.1)	11,969 (2.6)	12,082 (2.6)
K1	Newport	7,977 (2.9)	9,549 (3.9)	9,969 (3.7)
L1	Borough Lane, West of Debden Road	4,359 (1.7)	6,752 (1.2)	6,996 (1.1)
M1	Debden Road, North of Borough Lane	5,791 (2.1)	6,585 (1.4)	6,585 (1.4)
N1	Mount Pleasant, East of Debden Road	6,136 (1.9)	9,242 (1.5)	9,486 (1.5)
P1	Thaxted Road, South of Peaslands Road	8,355 (2.3)	11,694 (1.8)	12,044 (1.7)
Q1	Thaxted Road, North of Peaslands Road	9,076 (1.1)	12,711 (1.5)	12,953 (1.5)
R1	Thaxted Road, North of Proposed Link Road	8,355 (2.3)	11,565 (1.8)	11,915 (1.7)
S1	Thaxted Road, South of Proposed Link Road	8,355 (2.3)	10,463 (2)	10,554 (2.0)
T1	Thaxted Road, South of Shire Hill	9,293 (3.5)	14,359 (2.6)	14,466 (2.6)
U1	Shire Hill	5,783 (5.2)	8,252 (4.0)	8,358 (4.0)
V1	Thaxted Road, North of Shire Hill	8,896 (3.6)	12,538 (2.9)	12,538 (2.9)
W1	Thaxted Road, South of Radwinter Road	9,053 (2.9)	10,077 (2.6)	10,077 (2.6)
X1	East Street	8,955 (3.6)	12,012 (2.7)	12,503 (2.6)
Y1	Chaters Hill, North of Radwinter Road	2,085 (1.8)	2,551 (2.6)	2,551 (2.6)
Z1	Radwinter Road, East of Chaters Hill	10,215 (3.8)	12,227 (2.8)	12,720 (2.7)
A2	Church Street, West of Castle Hill	4,917 (2.2)	7,230 (1.9)	7,538 (1.8)
Notes: ⁽¹⁾ Traffic flow in terms of vehicle movements between 06:00 and 24:00 hours, with percentage of heavy goods vehicles in brackets. ⁽²⁾ No flow				

Table A11.5.3: Night-time traffic flows for opening year

Link ID	Road	Traffic Flow ⁽¹⁾		
		2019 base	Opening year (2026) without development	Opening year (2026) with development
A	Radwinter Road, East of Site Access	197 (0.5)	294 (1.4)	299 (1.3)
B	Site Access	-(2)	-(2)	69 (0)
C	Radwinter Road, between Site Access and Proposed Link Road	197 (0.5)	294 (1.4)	359 (1.1)
D	Proposed Link Road, South of Radwinter Road	-(2)	156 (3.8)	174 (3.4)
E	Proposed Link Road, East of Thaxted Road	-(2)	166 (3.6)	184 (3.3)
F	Radwinter Road, West of Proposed Link Road	197 (0.5)	343 (1.5)	390 (1.3)
G	Radwinter Road, East of Elizabeth Way	419 (2.6)	622 (2.1)	668 (1.9)
H	Elizabeth Way, North of Radwinter Road	259 (4.6)	478 (3.1)	504 (3.0)
I	Radwinter Road, West of Elizabeth Way	440 (4.5)	599 (3.5)	620 (3.4)
J	Elizabeth Way, South of Ashdon Road	260 (6.2)	479 (4.0)	505 (3.8)
K	Ashdon Road, East of Elizabeth Way	231 (7.8)	492 (4.7)	495 (4.6)
L	Ashdon Road, West of Elizabeth Way	240 (2.1)	412 (1.5)	434 (1.4)
M	Ashdon Road, East of Chaters Hill	272 (2.2)	447 (1.6)	469 (1.5)
N	Chaters Hill, South of Ashdon Road	87 (3.4)	98 (3.1)	98 (3.1)
O	Ashdon Road, West of Chaters Hill	330 (2.7)	514 (1.9)	536 (1.9)

Link ID	Road	Traffic Flow ⁽¹⁾		
		2019 base	Opening year (2026) without development	Opening year (2026) with development
P	Ashdon Road, East of Castle Hill	320 (2.5)	509 (2.0)	531 (1.9)
Q	Common Hill	272 (1.8)	363 (1.7)	363 (1.7)
R	Castle Hill, North of Ashdon Road	362 (1.7)	495 (1.2)	504 (1.2)
S	Castle Hill, South of Pound Walk	367 (2.2)	499 (1.6)	508 (1.6)
T	Little Walden Road	317 (2.5)	413 (1.9)	415 (1.9)
U	Castle Street, West of Castle Hill	164 (1.8)	218 (1.4)	225 (1.3)
V	Castle Street, East of High Street	151 (2.0)	214 (2.3)	222 (2.3)
W	Bridge Street	506 (2.4)	658 (2.7)	680 (2.6)
X	High Street, South of Castle Street	430 (2.3)	504 (3.4)	536 (3.2)
Y	High Street, North of Church Street	425 (2.6)	517 (3.3)	536 (3.2)
Z	Church Street, East of High Street	192 (2.6)	227 (2.2)	240 (2.1)
A1	High Street, North of Abbey Lane	370 (3.2)	391 (4.3)	399 (4.3)
B1	George Street/Hill Street	303 (3.3)	334 (4.5)	347 (4.3)
C1	High Street, South of Abbey Lane	527 (3.0)	567 (4.9)	575 (4.9)
D1	High Street, North of Audley Road	541 (3.3)	587 (4.9)	595 (4.9)
E1	Audley Road	273 (3.3)	326 (4.3)	333 (4.2)
F1	Debden Road, South of Audley Road	652 (3.2)	714 (4.5)	726 (4.4)
G1	London Road, North of Borough Lane	494 (3.2)	507 (5.5)	519 (5.4)
H1	Borough Lane, East of London Road	212 (2.4)	272 (1.5)	282 (1.4)
I1	London Road, South of Borough Lane	659 (3.2)	740 (4.2)	762 (4.1)
J1	Audley End Road	440 (2.7)	499 (3.4)	503 (3.4)
K1	Newport	365 (3.8)	398 (5.0)	415 (4.8)
L1	Borough Lane, West of Debden Road	200 (2.0)	281 (1.4)	291 (1.4)
M1	Debden Road, North of Borough Lane	265 (2.6)	274 (1.8)	274 (1.8)
N1	Mount Pleasant, East of Debden Road	281 (2.5)	385 (2.1)	395 (2.0)
P1	Thaxted Road, South of Peaslands Road	382 (3.1)	487 (2.3)	502 (2.2)
Q1	Thaxted Road, North of Peaslands Road	415 (1.4)	529 (1.9)	540 (1.9)
R1	Thaxted Road, North of Proposed Link Road	382 (3.1)	482 (2.3)	496 (2.2)
S1	Thaxted Road, South of Proposed Link Road	382 (3.1)	436 (2.5)	440 (2.5)
T1	Thaxted Road, South of Shire Hill	425 (4.5)	598 (3.3)	603 (3.3)
U1	Shire Hill	265 (6.8)	344 (5.2)	348 (5.2)
V1	Thaxted Road, North of Shire Hill	407 (4.7)	522 (3.8)	522 (3.8)
W1	Thaxted Road, South of Radwinter Road	414 (3.6)	420 (3.3)	420 (3.3)
X1	East Street	410 (4.6)	500 (3.4)	521 (3.3)
Y1	Chaters Hill, North of Radwinter Road	95 (2.1)	106 (3.8)	106 (3.8)
Z1	Radwinter Road, East of Chaters Hill	468 (4.9)	509 (3.7)	530 (3.6)
A2	Church Street, West of Castle Hill	225 (3.1)	301 (2.3)	314 (2.2)
Notes: ⁽¹⁾ Traffic flow in terms of vehicle movements between 23:00 and 07:00 hours, with percentage of heavy goods vehicles in brackets. ⁽²⁾ No flow				

Table A11.5.4: Night-time traffic flows for peak flow within 15 years of opening year

Link ID	Road	Traffic Flow ⁽¹⁾		
		2019 base	2041 without development	2041 with development
A	Radwinter Road, East of Site Access	197 (0.5)	318 (1.3)	323 (1.2)
B	Site Access	– ⁽²⁾	– ⁽²⁾	75 (0)
C	Radwinter Road, between Site Access and Proposed Link Road	197 (0.5)	318 (1.3)	388 (1.0)

Link ID	Road	Traffic Flow ⁽¹⁾		
		2019 base	2041 without development	2041 with development
D	Proposed Link Road, South of Radwinter Road	..(2)	169 (3.6)	188 (3.2)
E	Proposed Link Road, East of Thaxted Road	..(2)	179 (3.4)	199 (3)
F	Radwinter Road, West of Proposed Link Road	197 (0.5)	371 (1.3)	421 (1.2)
G	Radwinter Road, East of Elizabeth Way	419 (2.6)	672 (2.1)	722 (1.9)
H	Elizabeth Way, North of Radwinter Road	259 (4.6)	516 (3.1)	545 (2.9)
I	Radwinter Road, West of Elizabeth Way	440 (4.5)	647 (3.6)	670 (3.4)
J	Elizabeth Way, South of Ashdon Road	260 (6.2)	518 (4.1)	546 (3.8)
K	Ashdon Road, East of Elizabeth Way	231 (7.8)	532 (4.7)	535 (4.7)
L	Ashdon Road, West of Elizabeth Way	240 (2.1)	445 (1.3)	469 (1.3)
M	Ashdon Road, East of Chaters Hill	272 (2.2)	483 (1.7)	507 (1.6)
N	Chaters Hill, South of Ashdon Road	87 (3.4)	106 (2.8)	106 (2.8)
O	Ashdon Road, West of Chaters Hill	330 (2.7)	555 (2.0)	579 (1.9)
P	Ashdon Road, East of Castle Hill	320 (2.5)	550 (2.0)	574 (1.9)
Q	Common Hill	272 (1.8)	392 (1.5)	392 (1.5)
R	Castle Hill, North of Ashdon Road	362 (1.7)	535 (1.1)	545 (1.1)
S	Castle Hill, South of Pound Walk	367 (2.2)	539 (1.7)	549 (1.6)
T	Little Walden Road	317 (2.5)	446 (2.0)	448 (2.0)
U	Castle Street, West of Castle Hill	164 (1.8)	236 (1.3)	243 (1.2)
V	Castle Street, East of High Street	151 (2.0)	231 (2.2)	240 (2.1)
W	Bridge Street	506 (2.4)	711 (2.7)	735 (2.6)
X	High Street, South of Castle Street	430 (2.3)	545 (3.3)	579 (3.1)
Y	High Street, North of Church Street	425 (2.6)	559 (3.2)	579 (3.1)
Z	Church Street, East of High Street	192 (2.6)	245 (2.0)	259 (1.9)
A1	High Street, North of Abbey Lane	370 (3.2)	422 (4.3)	431 (4.2)
B1	George Street/Hill Street	303 (3.3)	361 (4.4)	375 (4.3)
C1	High Street, South of Abbey Lane	527 (3.0)	613 (4.9)	621 (4.8)
D1	High Street, North of Audley Road	541 (3.3)	634 (4.9)	643 (4.8)
E1	Audley Road	273 (3.3)	352 (4.3)	360 (4.2)
F1	Debden Road, South of Audley Road	652 (3.2)	771 (4.5)	784 (4.5)
G1	London Road, North of Borough Lane	494 (3.2)	548 (5.5)	561 (5.3)
H1	Borough Lane, East of London Road	212 (2.4)	294 (1.4)	305 (1.3)
I1	London Road, South of Borough Lane	659 (3.2)	799 (4.1)	823 (4.0)
J1	Audley End Road	440 (2.7)	539 (3.3)	543 (3.3)
K1	Newport	365 (3.8)	430 (5.1)	448 (4.9)
L1	Borough Lane, West of Debden Road	200 (2.0)	304 (1.3)	314 (1.3)
M1	Debden Road, North of Borough Lane	265 (2.6)	296 (1.7)	296 (1.7)
N1	Mount Pleasant, East of Debden Road	281 (2.5)	416 (2.2)	427 (2.1)
P1	Thaxted Road, South of Peaslands Road	382 (3.1)	526 (2.3)	542 (2.2)
Q1	Thaxted Road, North of Peaslands Road	415 (1.4)	572 (1.9)	583 (1.9)
R1	Thaxted Road, North of Proposed Link Road	382 (3.1)	521 (2.3)	536 (2.2)
S1	Thaxted Road, South of Proposed Link Road	382 (3.1)	471 (2.5)	475 (2.5)
T1	Thaxted Road, South of Shire Hill	425 (4.5)	646 (3.4)	651 (3.4)
U1	Shire Hill	265 (6.8)	372 (5.1)	376 (5.1)
V1	Thaxted Road, North of Shire Hill	407 (4.7)	564 (3.9)	564 (3.9)
W1	Thaxted Road, South of Radwinter Road	414 (3.6)	454 (3.3)	454 (3.3)
X1	East Street	410 (4.6)	540 (3.3)	563 (3.2)
Y1	Chaters Hill, North of Radwinter Road	95 (2.1)	115 (3.5)	115 (3.5)
Z1	Radwinter Road, East of Chaters Hill	468 (4.9)	550 (3.8)	573 (3.7)
A2	Church Street, West of Castle Hill	225 (3.1)	325 (2.5)	339 (2.4)
Notes:				

Link ID	Road	Traffic Flow ⁽¹⁾		
		2019 base	2041 without development	2041 with development

⁽¹⁾ Traffic flow in terms of vehicle movements between 23:00 and 07:00 hours, with percentage of heavy goods vehicles in brackets.
⁽²⁾ No flow

Table A11.5.5: Calculated changes in daytime road traffic noise, 2026 free-field dB

L_{A10,18hrs}

Link ID	Road	Scenario		
		2019 base	2026 without development ⁽¹⁾	2026 with development ⁽²⁾

A	Radwinter Road, East of Site Access	66.2	68.1 (+1.9)	68.2 (+0.1)
B	Site Access	-(3)	-(3)	56.1
C	Radwinter Road, between Site Access and Proposed Link Road	66.2	68.1 (+1.9)	68.9 (+0.8)
D	Proposed Link Road, South of Radwinter Road	-(3)	61.7	62.1 (+0.4)
E	Proposed Link Road, East of Thaxted Road	-(3)	61.9	62.3 (+0.4)
F	Radwinter Road, West of Proposed Link Road	61.9	64.5 (+2.6)	65.0 (+0.5)
G	Radwinter Road, East of Elizabeth Way	65.7	67.3 (+1.6)	67.5 (+0.2)
H	Elizabeth Way, North of Radwinter Road	64.1	66.4 (+2.3)	66.6 (+0.2)
I	Radwinter Road, West of Elizabeth Way	66.4	67.5 (+1.1)	67.7 (+0.2)
J	Elizabeth Way, South of Ashdon Road	64.5	66.7 (+2.2)	66.8 (+0.1)
K	Ashdon Road, East of Elizabeth Way	64.4	66.9 (+2.5)	66.9 (0)
L	Ashdon Road, West of Elizabeth Way	63.1	65.3 (+2.2)	65.5 (+0.2)
M	Ashdon Road, East of Chaters Hill	63.7	65.7 (+2.0)	65.9 (+0.2)
N	Chaters Hill, South of Ashdon Road	58.5	59.1 (+0.6)	59.1 (0)
O	Ashdon Road, West of Chaters Hill	64.7	66.4 (+1.7)	66.6 (+0.2)
P	Ashdon Road, East of Castle Hill	64.5	66.3 (+1.8)	66.5 (+0.2)
Q	Common Hill	63.6	64.8 (+1.2)	64.8 (0)
R	Castle Hill, North of Ashdon Road	64.8	66.1 (+1.3)	66.1 (0)
S	Castle Hill, South of Pound Walk	65.0	66.2 (+1.2)	66.2 (0)
T	Little Walden Road	64.5	65.4 (+0.9)	65.4 (0)
U	Castle Street, West of Castle Hill	61.4	62.5 (+1.1)	62.6 (+0.1)
V	Castle Street, East of High Street	61.0	62.7 (+1.7)	62.9 (+0.2)
W	Bridge Street	66.5	67.7 (+1.2)	67.8 (+0.1)
X	High Street, South of Castle Street	65.8	66.7 (+0.9)	67.0 (+0.3)
Y	High Street, North of Church Street	65.7	66.8 (+1.1)	67.0 (+0.2)
Z	Church Street, East of High Street	62.3	62.9 (+0.6)	63.1 (+0.2)
A1	High Street, North of Abbey Lane	65.3	65.9 (+0.6)	65.9 (0)
B1	George Street/Hill Street	64.5	65.2 (+0.7)	65.3 (+0.1)
C1	High Street, South of Abbey Lane	66.8	67.6 (+0.8)	67.7 (+0.1)
D1	High Street, North of Audley Road	67.0	67.8 (+0.8)	67.8 (0)
E1	Audley Road	64.0	65.1 (+1.1)	65.1 (0)
F1	Debden Road, South of Audley Road	67.8	68.5 (+0.7)	68.6 (+0.1)
G1	London Road, North of Borough Lane	66.6	67.3 (+0.7)	67.4 (+0.1)
H1	Borough Lane, East of London Road	62.7	63.5 (+0.8)	63.6 (+0.1)
I1	London Road, South of Borough Lane	67.9	68.6 (+0.7)	68.7 (+0.1)
J1	Audley End Road	66.0	66.7 (+0.7)	66.7 (0)
K1	Newport	65.4	66.1 (+0.7)	66.2 (+0.1)
L1	Borough Lane, West of Debden Road	62.4	63.7 (+1.3)	63.8 (+0.1)

Link ID	Road	Scenario		
		2019 base	2026 without development ⁽¹⁾	2026 with development ⁽²⁾
M1	Debden Road, North of Borough Lane	63.8	63.6 (-0.2)	63.6 (0)
N1	Mount Pleasant, East of Debden Road	63.9	65.2 (+1.3)	65.3 (+0.1)
P1	Thaxted Road, South of Peaslands Road	65.4	66.3 (+0.9)	66.4 (+0.1)
Q1	Thaxted Road, North of Peaslands Road	65.3	66.5 (+1.2)	66.6 (+0.1)
R1	Thaxted Road, North of Proposed Link Road	65.4	66.2 (+0.8)	66.3 (+0.1)
S1	Thaxted Road, South of Proposed Link Road	65.4	65.9 (+0.5)	65.9 (0)
T1	Thaxted Road, South of Shire Hill	66.3	67.5 (+1.2)	67.5 (0)
U1	Shire Hill	64.7	65.5 (+0.8)	65.6 (+0.1)
V1	Thaxted Road, North of Shire Hill	66.1	67.0 (+0.9)	67.0 (0)
W1	Thaxted Road, South of Radwinter Road	66.0	65.9 (-0.1)	65.9 (0)
X1	East Street	66.2	66.7 (+0.5)	66.9 (+0.2)
Y1	Chaters Hill, North of Radwinter Road	58.7	59.6 (+0.9)	59.6 (0)
Z1	Radwinter Road, East of Chaters Hill	66.8	66.8 (0)	67.0 (+0.2)
A2	Church Street, West of Castle Hill	63.1	64.2 (+1.1)	64.4 (+0.2)
<p>Note:</p> <p>⁽¹⁾ Figures in brackets are the changes from the 2019 base year to the year 2026 without development scenario. The changes are due to natural traffic growth.</p> <p>⁽²⁾ Figures in brackets are the changes from the year 2026 without development scenario to the year 2026 with development scenario. The changes are due to the development.</p> <p>⁽³⁾ No flow.</p> <p>⁽⁴⁾ Below range of validity for CRTN.</p>				

Table A11.5.6: Calculated changes in daytime road traffic noise, 2041 free-field dB**LA10,18hrs**

Link ID	Road	Scenario		
		2019 base	2041 without development ⁽¹⁾	2041 with development ⁽²⁾
A	Radwinter Road, East of Site Access	66.2	68.5 (+2.3)	68.6 (+0.1)
B	Site Access	-(3)	-(3)	56.6
C	Radwinter Road, between Site Access and Proposed Link Road	66.2	68.5 (+2.3)	69.3 (+0.8)
D	Proposed Link Road, South of Radwinter Road	-(3)	62.1	62.5 (+0.4)
E	Proposed Link Road, East of Thaxted Road	-(3)	62.3	62.7 (+0.4)
F	Radwinter Road, West of Proposed Link Road	61.9	65.0 (+3.1)	65.4 (+0.4)
G	Radwinter Road, East of Elizabeth Way	65.7	67.7 (+2.0)	68.0 (+0.3)
H	Elizabeth Way, North of Radwinter Road	64.1	66.8 (+2.7)	67.0 (+0.2)
I	Radwinter Road, West of Elizabeth Way	66.4	68.0 (+1.6)	68.1 (+0.1)
J	Elizabeth Way, South of Ashdon Road	64.5	67.1 (+2.6)	67.2 (+0.1)
K	Ashdon Road, East of Elizabeth Way	64.4	67.3 (+2.9)	67.4 (+0.1)
L	Ashdon Road, West of Elizabeth Way	63.1	65.7 (+2.6)	65.9 (+0.2)
M	Ashdon Road, East of Chaters Hill	63.7	66.1 (+2.4)	66.3 (+0.2)
N	Chaters Hill, South of Ashdon Road	58.5	59.6 (+1.1)	59.6 (0)
O	Ashdon Road, West of Chaters Hill	64.7	66.8 (+2.1)	67.0 (+0.2)
P	Ashdon Road, East of Castle Hill	64.5	66.7 (+2.2)	66.9 (+0.2)
Q	Common Hill	63.6	65.2 (+1.6)	65.2 (0)
R	Castle Hill, North of Ashdon Road	64.8	66.5 (+1.7)	66.5 (0)
S	Castle Hill, South of Pound Walk	65.0	66.6 (+1.6)	66.7 (+0.1)
T	Little Walden Road	64.5	65.8 (+1.3)	65.9 (+0.1)
U	Castle Street, West of Castle Hill	61.4	62.9 (+1.5)	63.0 (+0.1)
V	Castle Street, East of High Street	61.0	63.1 (+2.1)	63.3 (+0.2)
W	Bridge Street	66.5	68.1 (+1.6)	68.2 (+0.1)
X	High Street, South of Castle Street	65.8	67.1 (+1.3)	67.4 (+0.3)
Y	High Street, North of Church Street	65.7	67.2 (+1.5)	67.4 (+0.2)
Z	Church Street, East of High Street	62.3	63.3 (+1.0)	63.5 (+0.2)
A1	High Street, North of Abbey Lane	65.3	66.3 (+1.0)	66.4 (+0.1)
B1	George Street/Hill Street	64.5	65.6 (+1.1)	65.7 (+0.1)
C1	High Street, South of Abbey Lane	66.8	68.0 (+1.2)	68.1 (+0.1)
D1	High Street, North of Audley Road	67.0	68.2 (+1.2)	68.2 (0)
E1	Audley Road	64.0	65.5 (+1.5)	65.5 (0)
F1	Debden Road, South of Audley Road	67.8	68.9 (+1.1)	69.0 (+0.1)
G1	London Road, North of Borough Lane	66.6	67.7 (+1.1)	67.8 (+0.1)
H1	Borough Lane, East of London Road	62.7	63.9 (+1.2)	64.0 (+0.1)
I1	London Road, South of Borough Lane	67.9	69.0 (+1.1)	69.1 (+0.1)
J1	Audley End Road	66.0	67.1 (+1.1)	67.1 (0)
K1	Newport	65.4	66.5 (+1.1)	66.7 (+0.2)
L1	Borough Lane, West of Debden Road	62.4	64.1 (+1.7)	64.2 (+0.1)
M1	Debden Road, North of Borough Lane	63.8	64.1 (+0.3)	64.1 (0)
N1	Mount Pleasant, East of Debden Road	63.9	65.6 (+1.7)	65.7 (+0.1)
P1	Thaxted Road, South of Peaslands Road	65.4	66.7 (+1.3)	66.8 (+0.1)
Q1	Thaxted Road, North of Peaslands Road	65.3	66.9 (+1.6)	67.0 (+0.1)
R1	Thaxted Road, North of Proposed Link Road	65.4	66.7 (+1.3)	66.7 (0)
S1	Thaxted Road, South of Proposed Link Road	65.4	66.3 (+0.9)	66.3 (0)
T1	Thaxted Road, South of Shire Hill	66.3	67.9 (+1.6)	67.9 (0)
U1	Shire Hill	64.7	65.9 (+1.2)	66.0 (+0.1)
V1	Thaxted Road, North of Shire Hill	66.1	67.4 (+1.3)	67.4 (0)
W1	Thaxted Road, South of Radwinter Road	66.0	66.3 (+0.3)	66.3 (0)

Link ID	Road	Scenario		
		2019 base	2041 without development ⁽¹⁾	2041 with development ⁽²⁾
X1	East Street	66.2	67.1 (+0.9)	67.3 (+0.2)
Y1	Chaters Hill, North of Radwinter Road	58.7	60.2 (+1.5)	60.2 (0)
Z1	Radwinter Road, East of Chaters Hill	66.8	67.2 (+0.4)	67.4 (+0.2)
A2	Church Street, West of Castle Hill	63.1	64.6 (+1.5)	64.8 (+0.2)
<p>Note:</p> <p>⁽¹⁾ Figures in brackets are the changes from the 2019 base year to the year 2041 without development scenario. The changes are due to natural traffic growth.</p> <p>⁽²⁾ Figures in brackets are the changes from the year 2041 without development scenario to the year 2041 with development scenario. The changes are due to the development.</p> <p>⁽³⁾ No flow.</p> <p>⁽⁴⁾ Below range of validity for CRTN.</p>				

Table A11.5.7: Calculated changes in night-time road traffic noise, 2026 free-field dB

L_{A10,1hr}

Link ID	Road	Scenario		
		2019 base	2026 without development ⁽¹⁾	2026 with development ⁽²⁾
A	Radwinter Road, East of Site Access	-(4)	-(4)	-(4)
B	Site Access	-(3)	-(3)	-(4)
C	Radwinter Road, between Site Access and Proposed Link Road	-(4)	-(4)	-(4)
D	Proposed Link Road, South of Radwinter Road	-(3)	-(4)	-(4)
E	Proposed Link Road, East of Thaxted Road	-(3)	-(4)	-(4)
F	Radwinter Road, West of Proposed Link Road	-(4)	-(4)	-(4)
G	Radwinter Road, East of Elizabeth Way	54.7	57.2 (+2.5)	57.6 (+0.4)
H	Elizabeth Way, North of Radwinter Road	-(4)	55.8	56.1 (+0.3)
I	Radwinter Road, West of Elizabeth Way	55.6	57.4 (+1.8)	57.6 (+0.2)
J	Elizabeth Way, South of Ashdon Road	-(4)	56.1	56.5 (+0.4)
K	Ashdon Road, East of Elizabeth Way	-(4)	56.5	56.5 (0)
L	Ashdon Road, West of Elizabeth Way	-(4)	54.2	54.6 (+0.4)
M	Ashdon Road, East of Chaters Hill	-(4)	54.8	55.1 (+0.3)
N	Chaters Hill, South of Ashdon Road	-(4)	-(4)	-(4)
O	Ashdon Road, West of Chaters Hill	-(4)	55.9	56.1 (+0.2)
P	Ashdon Road, East of Castle Hill	-(4)	55.8	56.1 (+0.3)
Q	Common Hill	-(4)	-(4)	-(4)
R	Castle Hill, North of Ashdon Road	-(4)	55.3	55.4 (+0.1)
S	Castle Hill, South of Pound Walk	-(4)	55.6	55.7 (+0.1)
T	Little Walden Road	-(4)	54.3	54.3 (0)
U	Castle Street, West of Castle Hill	-(4)	-(4)	-(4)
V	Castle Street, East of High Street	-(4)	-(4)	-(4)
W	Bridge Street	56.0	57.8 (+1.8)	57.9 (+0.1)
X	High Street, South of Castle Street	54.8	56.2 (+1.4)	56.6 (+0.4)
Y	High Street, North of Church Street	54.9	56.4 (+1.5)	56.6 (+0.2)
Z	Church Street, East of High Street	-(4)	-(4)	-(4)
A1	High Street, North of Abbey Lane	-(4)	-(4)	56.9
B1	George Street/Hill Street	-(4)	-(4)	-(4)
C1	High Street, South of Abbey Lane	56.4	57.5 (+1.1)	57.6 (+0.1)
D1	High Street, North of Audley Road	56.7	57.8 (+1.1)	57.8 (0)
E1	Audley Road	-(4)	-(4)	-(4)
F1	Debden Road, South of Audley Road	57.9	58.9 (+1.0)	58.9 (0)
G1	London Road, North of Borough Lane	56.0	57.0 (+1.0)	57.0 (0)
H1	Borough Lane, East of London Road	-(4)	-(4)	-(4)
I1	London Road, South of Borough Lane	58.0	59.0 (+1.0)	59.1 (+0.1)
J1	Audley End Road	55.0	56.2 (+1.2)	56.2 (0)
K1	Newport	-(4)	57.2	55.3 (-1.9)
L1	Borough Lane, West of Debden Road	-(4)	-(4)	-(4)
M1	Debden Road, North of Borough Lane	-(4)	-(4)	-(4)
N1	Mount Pleasant, East of Debden Road	-(4)	-(4)	56.2
P1	Thaxted Road, South of Peaslands Road	-(4)	55.6	55.8 (+0.2)
Q1	Thaxted Road, North of Peaslands Road	54.2	56.1 (+1.9)	56.2 (+0.1)
R1	Thaxted Road, North of Proposed Link Road	-(4)	55.6	55.7 (+0.1)
S1	Thaxted Road, South of Proposed Link Road	-(4)	55.0	55.0 (0)
T1	Thaxted Road, South of Shire Hill	55.5	57.3 (+1.8)	57.4 (+0.1)
U1	Shire Hill	-(4)	-(4)	-(4)

Link ID	Road	Scenario		
		2019 base	2026 without development ⁽¹⁾	2026 with development ⁽²⁾
V1	Thaxted Road, North of Shire Hill	55.1	56.7 (+1.6)	56.7 (0)
W1	Thaxted Road, South of Radwinter Road	54.9	55.0 (+0.1)	55.0 (0)
X1	East Street	55.2	56.2 (+1.0)	56.5 (+0.3)
Y1	Chaters Hill, North of Radwinter Road	-(4)	-(4)	-(4)
Z1	Radwinter Road, East of Chaters Hill	56.2	56.4 (+0.2)	56.7 (+0.3)
A2	Church Street, West of Castle Hill	-(4)	-(4)	-(4)
Note: ⁽¹⁾ Figures in brackets are the changes from the 2019 base year to the year 2026 without development scenario. The changes are due to natural traffic growth. ⁽²⁾ Figures in brackets are the changes from the year 2026 without development scenario to the year 2026 with development scenario. The changes are due to the development. ⁽³⁾ No flow. ⁽⁴⁾ Below range of validity for CRTN.				

Table A11.5.8: Calculated changes in night-time road traffic noise, 2041 free-field dB

L_{A10,1hr}

Link ID	Road	Scenario		
		2019 base	2041 without development ⁽¹⁾	2041 with development ⁽²⁾
A	Radwinter Road, East of Site Access	-(4)	-(4)	-(4)
B	Site Access	-(3)	-(3)	-(4)
C	Radwinter Road, between Site Access and Proposed Link Road	-(4)	-(4)	-(4)
D	Proposed Link Road, South of Radwinter Road	-(3)	-(4)	-(4)
E	Proposed Link Road, East of Thaxted Road	-(3)	-(4)	-(4)
F	Radwinter Road, West of Proposed Link Road	-(4)	-(4)	54.2
G	Radwinter Road, East of Elizabeth Way	54.7	57.7 (+3.0)	58.1 (+0.4)
H	Elizabeth Way, North of Radwinter Road	-(4)	56.3	56.7 (+0.4)
I	Radwinter Road, West of Elizabeth Way	55.6	57.9 (+2.3)	58.1 (+0.2)
J	Elizabeth Way, South of Ashdon Road	-(4)	56.6	57 (+0.4)
K	Ashdon Road, East of Elizabeth Way	-(4)	57.0	57.0 (0)
L	Ashdon Road, West of Elizabeth Way	-(4)	54.7	55.0 (+0.3)
M	Ashdon Road, East of Chaters Hill	-(4)	55.4	55.7 (+0.3)
N	Chaters Hill, South of Ashdon Road	-(4)	-(4)	-(4)
O	Ashdon Road, West of Chaters Hill	-(4)	56.4	56.7 (+0.3)
P	Ashdon Road, East of Castle Hill	-(4)	56.4	56.6 (+0.2)
Q	Common Hill	-(4)	-(4)	-(4)
R	Castle Hill, North of Ashdon Road	-(4)	55.8	56.0 (+0.2)
S	Castle Hill, South of Pound Walk	-(4)	56.1	56.2 (+0.1)
T	Little Walden Road	-(4)	54.9	54.9 (0)
U	Castle Street, West of Castle Hill	-(4)	-(4)	-(4)
V	Castle Street, East of High Street	-(4)	-(4)	-(4)
W	Bridge Street	56.0	58.2 (+2.2)	58.4 (+0.2)
X	High Street, South of Castle Street	54.8	56.8 (+2.0)	57.1 (+0.3)
Y	High Street, North of Church Street	54.9	56.9 (+2.0)	57.1 (+0.2)
Z	Church Street, East of High Street	-(4)	-(4)	-(4)
A1	High Street, North of Abbey Lane	-(4)	55.3	55.4 (+0.1)
B1	George Street/Hill Street	-(4)	-(4)	-(4)
C1	High Street, South of Abbey Lane	56.4	58.0 (+1.6)	58.1 (+0.1)

Link ID	Road	Scenario		
		2019 base	2041 without development ⁽¹⁾	2041 with development ⁽²⁾
D1	High Street, North of Audley Road	56.7	58.3 (+1.6)	58.3 (0)
E1	Audley Road	-(4)	-(4)	-(4)
F1	Debden Road, South of Audley Road	57.9	59.3 (+1.4)	59.4 (+0.1)
G1	London Road, North of Borough Lane	56.0	57.5 (+1.5)	57.6 (+0.1)
H1	Borough Lane, East of London Road	-(4)	-(4)	-(4)
I1	London Road, South of Borough Lane	58.0	59.4 (+1.4)	59.5 (+0.1)
J1	Audley End Road	55.0	56.7 (+1.7)	56.7 (0)
K1	Newport	-(4)	55.7	55.9 (+0.2)
L1	Borough Lane, West of Debden Road	-(4)	-(4)	-(4)
M1	Debden Road, North of Borough Lane	-(4)	-(4)	-(4)
N1	Mount Pleasant, East of Debden Road	-(4)	54.5	54.7 (+0.2)
P1	Thaxted Road, South of Peaslands Road	-(4)	56.2	56.3 (+0.1)
Q1	Thaxted Road, North of Peaslands Road	54.2	56.6 (+2.4)	56.7 (+0.1)
R1	Thaxted Road, North of Proposed Link Road	-(4)	56.2	56.2 (0)
S1	Thaxted Road, South of Proposed Link Road	-(4)	55.5	55.6 (+0.1)
T1	Thaxted Road, South of Shire Hill	55.5	57.9 (+2.4)	57.9 (0)
U1	Shire Hill	-(4)	-(4)	-(4)
V1	Thaxted Road, North of Shire Hill	55.1	57.2 (+2.1)	57.2 (0)
W1	Thaxted Road, South of Radwinter Road	54.9	55.5 (+0.6)	55.5 (0)
X1	East Street	55.2	56.7 (+1.5)	57.0 (+0.3)
Y1	Chaters Hill, North of Radwinter Road	-(4)	-(4)	-(4)
Z1	Radwinter Road, East of Chaters Hill	56.2	57.0 (+0.8)	57.2 (+0.2)
A2	Church Street, West of Castle Hill	-(4)	-(4)	-(4)
<p>Note:</p> <p>⁽¹⁾ Figures in brackets are the changes from the 2019 base year to the year 2041 without development scenario. The changes are due to natural traffic growth.</p> <p>⁽²⁾ Figures in brackets are the changes from the year 2041 without development scenario to the year 2041 with development scenario. The changes are due to the development.</p> <p>⁽³⁾ No flow.</p> <p>⁽⁴⁾ Below range of validity for CRTN.</p>				