

City Airport Development Programme (CADP1)

Condition 89: CONSTRUCTION SOUND INSULATION SCHEME



Bickerdike Allen Partners Architecture Acoustics Technology

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1.0 INTRODUCTION

1.1 General

- 1.1.1 The City Airport Development Programme (CADP) 1 planning application (13/01228/FUL) was granted planning permission by the Secretaries of State for Communities and Local Government and Transport in July 2016 following an appeal and public inquiry which was held in March/April 2016.
- 1.1.2 Condition 89 of the CADP1 permission requires that:

"No Development shall be Commenced until a Construction Sound Insulation Scheme for the purposes of Conditions 90 and 91 has been submitted to and approved in writing by the local planning authority. The Construction Sound Insulation Scheme shall provide a sound reduction of not less than 35dB averaged over 100 Hz to 3150 Hz in accordance with the procedure of British Standard Publication BS EN ISO 140: Part 5 for each Sensitive Receptor.

Reason: To ensure that affected Sensitive Receptors are suitably mitigated against intrusive construction noise impacts. "

1.1.3 The planning permission also provides the following definition of the 'Construction Sound Insulation Scheme':

- "a scheme of insulation against construction noise that will provide (as a minimum) an average sound reduction of 35dB for each dwelling that is eligible by means of high performance double glazing and mechanical ventilation equipment or secondary glazing and mechanical ventilation equipment."

This report sets out the proposed Construction Sound Insulation Scheme (CSIS) for the purposes of discharging the requirements of Condition 89 and includes the following:

Section 2.0 – the purpose of the Scheme;

Section 3.0 – a description of the Affected Dwellings eligible under the Scheme;

Section 4.0 – a description of the Construction Sound Insulation Scheme (CSIS); and

Section 5.0 – a description of how the Scheme will be administered.

- 1.1.4 A glossary of acoustic terminology used is included in Appendix A.
- 1.1.5 There are a number of additional planning conditions in the CADP1 permision related to the management of construction noise. These include a condition requiring the approval of a Construction Environmental Management Plan (CEMP) (including a Construction Noise and Vibration Management and Mitigation Strategy (CNVMMS)) (Condition 88), a night time construction noise sound insulation scheme (Condition 90) and a daytime construction noise sound insulation scheme (Conditions 90 and 91 define eligibility thresholds for sound insulation works. These conditions are reproduced in Appendix 2.
- 1.1.6 These planning conditions, in combination with condition 89, reflect the commitments to mitigate against the construction noise effects identified in the Updated Environmental Statement (UES).
- 1.1.7 A description of the framework of the CSIS is set out within Annexure 10 of the CADP Section 106 Agreement which is reproduced here at Appendix 3.

2.0 PURPOSE OF THE SCHEME

2.1 Existing Provisions

2.1.1 There is currently no Construction Sound Insulation Scheme in place at London City Airport.

2.2 CADP Assessment

- 2.2.1 Chapter 8 of the CADP UES identifies that there will be a relatively small number of properties untreated under the Airport's air noise Sound Insulation Scheme that will be exposed to potentially significant levels of Out of Operational Hours (OOOH) construction noise. It explains that various mitigation measures will reduce the effect of construction noise on these receptors. These include a re-assessment of receptors exposed to construction noise when a contractor is appointed, a commitment to monitor and manage noise, physical mitigation in the form of local and temporary noise barriers, and a Construction Sound Insulation Scheme.
- 2.2.2 The CSIS presented in Chapter 8 of the UES is set out below:
 - Those properties who are exposed to construction noise levels at night in the range 50 dB to 55 dB L_{Aeq,15min} (for a period of 10 or more days of working in any 15 consecutive days or for a total number of days exceeding 40 in any 6 consecutive months) and who previously refused works under the Sound Insulation Scheme will

be re-offered treatment under the Airport's enhanced First Tier Scheme, as set out in the CNVMMS given in Appendix 8.23 of the UES;

- Enhanced Second Tier Scheme (secondary or 100% cost of high acoustic performance thermal double glazing and acoustic vents) will be made available to properties predicted to exceed CNVMMS noise limits (55 dB L_{Aeq,15min} at night) regularly (for a period of 10 or more days of working n any 15 consecutive days or for a total number of days exceeding 40 in any 6 consecutive months).
- 2.2.3 The CADP UES concludes that on the basis of the number of properties affected and the mitigation measures proposed, the residual construction noise effects will give rise to a **negligible** impact during daytime operational hours and **minor adverse** impact during Out of Operational Hours.

2.3 The Proposed Scheme

- 2.3.1 The proposed scheme is described in detail in Section 4.0 below and provides for sound insulation works to be undertaken at Affected Dwellings in order to mitigate the noise impacts of the construction of the CADP, as described in the UES. Subsequent to the publication of the UES, the scheme has been extended to offer greater protection to those dwellings likely to be affected by construction noise, as described in Annexure 10 of the Section 106 Agreement for CADP included here in Appendix 3 and as described in Section 4.0 below. Section 4.0 also identifies some additional provisions over those described in Annexure 10.
- 2.3.2 The designation of an Affected Dwelling is not influenced by whether or not its occupant(s) or owner(s) has previously been offered and refused works under the Airport's existing air noise related Sound Insulation Schemes.
- 2.3.3 The Scheme will comprise the following:
 - A. Advance Sound Insulation Works; and
 - B. Standard Sound Insulation Works

2.3.4 Advance Sound Insulation Works will comprise a package of replacement high acoustic performance windows and acoustic ventilation. Standard Sound Insulation Works will comprise a package of secondary acoustic glazing and acoustic ventilation. Both Works packages will include loft insulation where applicable to ensure those habitable rooms at the top of blocks of flats or houses are adequately protected.

3.0 AFFECTED DWELLINGS

3.1 Affected Dwellings – Advance Sound Insulation Works

3.1.1 An Affected Dwelling for the purpose of Advance Sound Insulation Works is:

(i) a residential dwelling listed in the appendix to Annexure 10 of the Section 106 agreement (at the time of the Appeal predicted to experience or considered to be at risk of experiencing night time (2300 to 0700 hours) construction noise levels of 55 dB $L_{Aeq, 15}$ min or more when measured at 1 metre from the facade either (a) for at least 10 days in any 15 consecutive working days or (b) for at least 20 days in any 6 consecutive months);

or

(ii) a residential dwelling which is predicted in the Construction Noise and Vibration Monitoring and Management Strategy (CNVMMS), forming part of the Construction Environmental Management Plan ("CEMP") approved under condition 88 attached to the Planning Permission, to experience night time (2300 to 0700 hours) construction noise levels of 55 dB $L_{Aeq, 15}$ min or more when measured at 1 metre from the facade either (a) for at least 10 days in any 15 consecutive working days or (b) for at least 20 days in any 6 consecutive months (the "Advance Sound Insulation Works Noise Level");

or

(iii) a residential dwelling which, through actual measurement during the construction of the development, is found to experience night time construction noise equivalent to the Advance Sound Insulation Works Noise Level.

3.2 Affected Dwellings – Standard Sound Insulation Works

3.2.1 An Affected Dwellings for the purpose of Standard Sound Insulation Works is:

(i) a residential dwelling which is not eligible for the Advance Sound Insulation Works; and

(ii) a residential dwelling which is predicted in the approved CNVMMS, or through actual measurement found to experience:

- A. night time (2300 to 0700 hours) construction noise levels of 50 dB $L_{Aeq, 15 min}$ or higher when measured at 1 metre from the facade either (a) for at least 10 days in any 15 consecutive working days or (b) for at least 20 days in any 6 consecutive months; or
- B. daytime (0700 to 2300 hours) construction noise levels in excess of those set out in the table below either (a) for at least 10 days in any 15 consecutive working days or (b) for at least 20 days in any consecutive 6 months (the night time and daytime noise levels being each referred to as the "Standard Sound Insulation Works Noise Level").

Table 1 – Construction Noise Levels

Day	Time (hours)	Averaging period, T (hours)	Noise insulation trigger level LAeq,T (façade)
Monday to Friday	0800 to 1800	10	75
	0700 to 0800 and 1800 to 2300	1	65
Saturday	0800 to 1300	5	75
Saturday	0700 to 0800 and 1300 to 2300	1	65
Sunday	0800 to 2300	1	55

4.0 CONSTRUCTION SOUND INSULATION SCHEME

4.1 CSIS Works – Acoustic performance standard

- 4.1.1 The CSIS works described in Annexure 10 in Appendix 3 and described further below are to improve further the standard of sound insulation and to provide any necessary acoustic ventilation to those properties identified as Affected Dwellings. The CSIS will provide works to achieve a sound reduction of not less than 35dB averaged over 100 Hz to 3150 Hz in accordance with the procedure of British Standard Publication BS EN ISO 140.
- 4.1.2 Compliance with the above acoustic performance standard will be demonstrated by acoustic testing on a representative sample of property types; the sample of properties will be agreed with LBN. This is an additional commitment to the scheme described in Annexure 10.
- 4.1.3 The tests will be taken in accordance with BS EN ISO 140-5: 1998 "Measurement of sound insulation in buildings and of building elements Part 5: Field measurements of airborne sound insulation of façade elements and facades". Field measurements of aircraft noise should be used as the noise source for the tests. Tests in accordance to BS EN ISO 16283-3:2016 and BS EN ISO 16283-1:2014 are also acceptable.
- 4.1.4 Testing should be carried out by a suitably competent testing body. The testing body should have appropriate third party accreditation. Accreditation from either United Kingdon Accreditation Service (UKAS) or Association of Noise Consultants Registration Scheme for Sound Insulation Testing¹ (ANC) is deemed acceptable. For the purpose of the CSIS, Bickerdike Allen Partners LLP are the competent testing body or as otherwise agreed between LCA and the local authority.

¹ ANC accreditation covers internal sound insulation testing under the BS EN ISO 140 series. It does not cover façade testing in accordance with BS EN ISO 140-5. However, test companies with ANC accreditation for internal testing are deemed competent to cary out external acoustic testing for the purposes of this scheme.

4.2 Eligible elevations

4.2.1 Only elevations that directly face the Airport (where the CADP works will occur) will be eligible to benefit from works undertaken pursuant to the CSIS.

4.3 Eligible rooms

- 4.3.1 Any habitable room is eligible. A habitable room is defined as;
 - a) living room;
 - b) a bedroom (but not including a bathroom or en-suite);
 - c) a dining room; and
 - d) if the living room in the relevant premises is less than 14 square metres, a kitchen in excess of 7 square metres, or, if the living room in the relevant premises is 14 square metres or more, a kitchen in excess of 11 square metres.

but in any case not including a corridor.

4.4 Window acoustic specification – secondary glazing option – Standard Sound Insulation Works

4.4.1 The CSIS contractor shall initially carry out a survey of the windows to be treated and shall produce a survey report including information on current window specification (secondary glazing/thermal double or single), opening type, and any significant defects to the primary and, if applicable, secondary glazing to be agreed by LCA, LBN and the occupiers of the properties. LCA and LBN shall agree which defects must be remedied to ensure that the noise insulation meets the required acoustic design standard and/or so that it can be satisfactorily fixed, and shall also agree how the costs of any such remedial work shall be apportioned.

- 4.4.2 Where reasonably practicable an offer of secondary glazing and sound attenuating ventilators will be made for habitable rooms with existing thermal double or single glazing of a satisfactory standard PROVIDED THAT:
 - The type of secondary glazing units fitted shall relate to the form of the primary windows. The design of secondary units shall be such as to facilitate cleaning of both surfaces of the primary windows from within the treated room. Secondary units shall be either a side-hung casement type, or horizontally or vertically sliding units.
 - The secondary system shall generally comprise 4mm float glass within white polyester powder-coated aluminium frames. However, 6mm float glass and toughened glass shall be used where required by BS6206 for safety reasons. Anodic oxidation shall comply with British Standard 1615.
- 4.4.3 The minimum air gap between primary and secondary panes is to be 100mm, where this can be accommodated within existing reveals PROVIDED THAT:
 - Where the reveal depth is insufficient to achieve an air gap of 100mm, secondary glazing shall be fitted flush with the inner face of existing walls subject to a minimum of 75mm being achieved.
 - Where a minimum air gap of 75mm cannot be achieved within existing reveals and with the secondary glazing fitted flush with the inner face of existing walls, boxing out of the reveals will be necessary. In these cases the reveals shall be boxed out to achieve a minimum reveal depth of 75mm.
 - In all cases where a minimum gap of 100mm cannot be achieved, the glass thickness of the secondary pane shall be increased to 6mm.
 - The top and side reveals between primary and secondary windows are to be lined with an approved sound absorbent material treated with a suitable fungicide.
- 4.4.4 The secondary glazing system is to be mounted on a timber frame with painted finish. Any gaps between sub-frame and reveal shall be sealed with an approved resilient sealant.

4.5 Window acoustic specification – high performance double glazing – Advance Sound Insulation Works

4.5.1 The high acoustic performance double glazed unit shall generally comprise 10mm glass /10-16mm cavity/6.8mm acoustic laminated glass within a UPVC or aluminium frame. Any alternative double glazing specification that can be demonstrated through acoustic testing to comply with the CSIS performance standard will also be suitable subject to written approval from LBN.

- 4.5.2 Toughened glass shall be used where required for safety reasons.
- 4.5.3 The high acoustic performance double glazed unit shall be designed to comply with relevant thermal efficiency requirements of the current Building Regulations (Approved Document L).
- 4.5.4 External doors to Habitable Rooms will be fitted with high acoustic and weather specification seals (approved by the Council) to the thresholds, jambs and heads. Opening fanlights over doors shall be sealed and fixed in a closed position (additional to Annexure 10).
- 4.5.5 Glazed doors and fanlights shall be evaluated on an individual case by case basis to ensure sufficient sound insulation provision is achieved where reasonably practicable (additional to Annexure 10).
- 4.5.6 Fully glazed or patio doors or French windows will be treated as windows for consideration of eligibility.

4.6 Ventilation – Both Standard and Advance Sound Insulation Works

- 4.6.1 CSIS Works will only be carried out with appropriate sound attenuating ventilators.
- 4.6.2 Existing air bricks within habitable rooms shall be replaced by permanent sound-attenuating vents subject to the requirements of the current Building Regulations.
- 4.6.3 In addition to the replacement of existing air bricks by permanent sound attenuating vents, the following combination of ventilators are required,
 - two permanent passive "Type A" sound attenuating vents,
 - one combined mechanical and permanent sound attenuating vent; or
 - one mechanical sound attenuating vent and one permanent sound attenuating vent.

- 4.6.4 Type A and combined mechanical and permanent sound attenuating vents shall be in accordance with the standards given in the Noise Insulation Regulations 1975. Mechanical vents shall be wired to the domestic supply in compliance with current Building Regulations. Suitable ducting shall be provided from room to outside air, complete with an external grille.
- 4.6.5 The mechanical sound attenuating vent shall comprise a Siegenia-Aubi Aeropac SN Acoustic Ventilator (unless otherwise agreed with the Local Planning Authority).
- 4.6.6 All ventilators must be installed in strict accordance with manufacturer's guidance.

4.7 Loft insulation

- 4.7.1 Where a ceiling separates an eligible habitable room from a loft space, an offer of installation of loft insulation will be made subject to the following (additional to Annexure 10):
- 4.7.2 Where no loft insulation is present, 250mm thick thermal grade mineral wool insulation will be laid in the loft.
- 4.7.3 Where existing loft insulation is found to be unsatisfactory, further layers of insulation will be added to increase the total thickness of insulation to 250mm.

4.8 Building, gas and electric regulations

- 4.8.1 The CSIS installer shall be responsible for ensuring that the property meets the ventilation requirements of the current Building and Gas Regulations on completion of sound insulation works. All additional ventilation shall be sound attenuated.
- 4.8.2 Any requirements for additional ventilation in the future arising from amendments to the building, to its gas appliance or the Regulations, shall be the responsibility of the building owner or occupier, as the case may be.

4.9 Blinds

4.9.1 Free hanging venetian blinds are to be supplied and fitted between primary and secondary windows to eligible rooms. Blinds are to be white, with tilt mechanism. In no case shall it be required that blinds be fitted where following the agreement of the owners of the property it is decided that such installation would be impracticable.

5.0 ADMINISTRATION

5.1 Administration – Advance Sound Insulation Works

5.1.1 The Airport Companies will offer the owner and (if different) the occupier of each Affected Dwelling the opportunity to have Advance Sound Insulation Works undertaken at the Affected Dwelling in accordance with the following procedure:

(i) for owners and (if different) the occupier of Affected Dwellings listed within the Appendix of Annexure 10 which is reproduced here at Appendix 3, the Airport Companies shall make an offer to provide Advance Sound Insulation Works at least six months before the Commencement of Development. (Note: LCA wrote on 24th August 2016 to the owner/occupier of all of those Affected Dwellings listed within Annexure 10 of the CADP1 Section 106 Agreement offering Advance Sound Insulation Works);

(ii) for owners and (if different) the occupier of Affected Dwellings identified as such through the CNVMMS, the Airport Companies shall make offers to provide Advance Sound Insulation Works in accordance with the approved Phasing Plan as part of the CNVMMS submitted under Condition 88 of the CADP1 permission.. This shall have the objective of ensuring that (subject to acceptance by the owner and occupier of the offer of works and permitting access to the relevant dwelling) the Advance Sound Insulation Works are completed at each Affected Dwelling before the construction activity, which is predicted to give rise to the Advance Sound Insulation Works Noise Level at that Affected Dwelling, begins; and

(iii) for owners and (if different) the occupier of Affected Dwellings which, through measurement, are found to experience night time construction noise equivalent to the Advance Sound Insulation Works Noise Level, the Airport Companies shall make an offer to provide Advance Sound Insulation Works as soon as reasonably practicable and in any event no later than 28 days following identification of the Affected Dwelling through measurement.

5.1.2 Where within one month of making the same an offer of Advance Sound Insulation Works is accepted by the owner/occupier of the Affected Dwelling and access is provided to the Affected Dwelling, the Operator shall implement the Advance Sound Insulation Works as soon as reasonably practicable following acceptance of the offer and access being provided and, in any event, in accordance with the approved Phasing Plan as part of the Construction Noise and Vibration Mitigation and Monitoring Strategy (CNVMMS) submitted under Condition 88 of the CADP1 permission.

5.2 Administration – Standard Sound Insulation Works

5.2.1 The Airport Companies will offer the owner and (if different) the occupier of each Affected Dwelling the opportunity to have Standard Sound Insulation Works undertaken at the Affected Dwelling in accordance with the following procedure:

(i) for owners and (if different) the occupier of Affected Dwellings identified as such through the CNVMMS, the Airport Companies shall make an offer to provide Standard Sound Insulation Works in accordance with the approved Phasing Plan as part of the CNVMMS submitted under Condition 88 of the CADP1 permission with the objective of ensuring that (subject to acceptance by the owner and occupier of the offer of works and permitting access to the relevant dwelling) the Standard Sound Insulation Works are completed at each Affected Dwelling before the construction activity, which is predicted to give rise to the Standard Sound Insulation Works Noise Level at that Affected Dwelling, begins; and

(ii) for owners and (if different) the occupier of Affected Dwellings which, through measurement, are found to experience night time construction noise equivalent to the Standard Sound insulation Works Noise Level, the Airport Companies shall make an offer to provide Standard Sound Insulation Works as soon as reasonably practicable and in any event within 28 days following identification of the Affected Dwelling through measurement.

5.2.2 Where within one month of making the same, an offer of Standard Sound Insulation Works is accepted by the owner/occupier of the Affected Dwelling and access is provided to the Affected Dwelling, the Operator shall implement the Standard Sound Insulation Works as soon as reasonably practicable following acceptance of the offer and access being provided and in any event in accordance with the approved Phasing Plan as part of the CNVMMS submitted under Condition 88 of the CADP1 permission.

David Trew

for Bickerdike Allen Partners LLP

Peter Henson Partner

APPENDIX 1

Glossary of Acoustic Terminology

The Decibel, dB

The unit used to describe the magnitude of sound is the decibel (dB) and the quantity measured is the sound pressure level. The decibel scale is logarithmic and it ascribes equal values to proportional changes in sound pressure, which is a characteristic of the ear. Use of a logarithmic scale has the added advantage that it compresses the very wide range of sound pressures to which the ear may typically be exposed to a more manageable range of numbers. The threshold of hearing occurs at approximately 0 dB (which corresponds to a reference sound pressure of 2 x 10^{-5} Pascals) and the threshold of pain is around 120 dB.

The sound energy radiated by a source can also be expressed in decibels. The sound power is a measure of the total sound energy radiated by a source per second, in watts. The sound power level, L_w is expressed in decibels, referenced to 10^{-12} watts.

Frequency, Hz

Frequency is analogous to musical pitch. It depends upon the rate of vibration of the air molecules that transmit the sound and is measure as the number of cycles per second or Hertz (Hz). The human ear is sensitive to sound in the range 20 Hz to 20,000 Hz (20 kHz). For acoustic engineering purposes, the frequency range is normally divided up into discrete bands. The most commonly used bands are octave bands, in which the upper limiting frequency for any band is twice the lower limiting frequency, and one-third octave bands, in which each octave band is divided into three. The bands are described by their centre frequency value and the ranges which are typically used for building acoustics purposes are 63 Hz to 4 kHz (octave bands) and 100 Hz to 3150 Hz (one-third octave bands).

A-weighting

The sensitivity of the ear is frequency dependent. Sound level meters are fitted with a weighting network which approximates to this response and allows sound levels to be expressed as an overall single figure value, in dB(A).

Environmental Noise Descriptors

Where noise levels vary with time, it is necessary to express the results of a measurement over a period of time in statistical terms. Some commonly used descriptors follow.

Statistical Term	Description					
L _{Aeq, T}	The most widely applicable unit is the equivalent continuous A- weighted sound pressure level (LAeq, T). It is an energy average and is defined as the level of a notional sound which (over a defined period of time, T) would deliver the same A-weighted sound energy as the actual fluctuating sound.					
L _{A90}	The level exceeded for 90% of the time is normally used to describe background noise.					
$L_{Amax,T}$	The maximum A-weighted sound pressure level, normally associated with a time weighting, F (fast), or S (slow)					

Sound Transmission in Rooms

Sound energy is reflected from the room surfaces and this gives rise to reverberation. At short distances from a sound source, the sound level will fall off at a rate of 6 dB per doubling of distance, as it would in the open air – this is known as the direct field. Beyond a certain distance, the effect of reverberation takes over and the level ceases to fall off significantly with distance from the source. This is known as the reverberant field. For receiver positions in this part of the room, sound levels can be reduced by applying sound absorbing finishes to the surfaces of the room. A 3 dB reduction can normally be obtained by doubling the absorption present, which corresponds to halving the reverberation time (see below).

Sound Insulation - Airborne

Voices, hi-fi systems, television and radio sound and musical instruments are all sources of airborne sound. They excite the air around them and the vibration in the air is transmitted to surrounding surfaces, such as walls, ceilings and floors. This sets these constructions into vibration and this vibration is radiated in neighbouring rooms as sound. Energy is lost in the transmission path and this is referred to as transmission loss or, more generally, sound insulation. The most simple measure of sound insulation is the sound level difference, D, which is the arithmetic difference between the sound level, in dB, in the source room and the sound level in the receiving room.

Other measures of sound insulation include the sound reduction index, R, which is a measure of the acoustical performance of a partition, obtained in a laboratory, and the standardised level difference, D_{nT} , which is used mainly in the sound insulation of domestic separating walls and separating floors. The relevant test procedures are laid down in BS EN ISO 140. A single figure "weighted" result can be obtained from one-third octave band test results by using a curve-fitting procedure laid down in BS EN ISO 717. The subscript "w" is added to the relevant descriptor (eg $D_{nT,w}$).

The sound reduction index, R, is used in the specification of components, such as partitions, doors and windows. It is important to bear in mind that the performance of components in the field is usually lower than can be obtained in a laboratory. The transmission of sound via other components common to both rooms ("flanking transmission") can reduce the apparent sound reduction index (R') significantly.

Sound Insulation - Impact

In the case of impact sound, the building construction is caused to vibrate as a result of a physical impact. Footsteps on floors are the most obvious example. The vibration is radiated as sound in neighbouring rooms. Impact insulation is measured using a standard tapping machine, which drops weights cyclically onto a floor. The sound pressure level is measured in the receiving room below and the result is known as the impact level, Li for laboratory tests and L'i for field tests.

APPENDIX 2

Planning Conditions related to Construction Sound Insulation Scheme

5.3 Planning condition 88 – Construction Environmental Management Plan (CEMP)

- 5.3.1 "Prior to Commencement of Development a Construction Environmental Management Plan (CEMP) shall be submitted to and approved in writing by the local planning authority.
- 5.3.2 The CEMP shall be implemented as approved. The CEMP shall include (but not be limited to):
 - a Construction Noise and Vibration Management and Mitigation Strategy (CNVMMS);
 - an Air Quality Construction Management and Mitigation Strategy (AQCMMS); and
 - details of wheel washing equipment.
- 5.3.3 The CEMP shall be in accordance with the environmental standards, mitigation measures, embedded mitigation measures, requirements, recommendations and methods of implementing the Development contained in the UES, appendices and addenda therein relevant to the Development.
- 5.3.4 Reason: To ensure a satisfactory standard of development and to safeguard the amenities of the surrounding area."
- 5.3.5 Planning Condition 88 includes reference to the CNVMMS. The CNVMMS is defined within the decision notice. The definition is reproduced below,

'Construction Noise and Vibration Management and Mitigation Strategy (CNVMMS)' means a strategy in accordance with the environmental standards, mitigation measures, embedded mitigation measures, requirements, recommendations and methods of implementing the Development contained in the Updated Environmental Statement and appendices to include (but not limited to) the following:

- maximising the use of daytime hours;
- mechanisms of Control;
- community Liaison and complaints handling;
- monitoring procedure;
- reporting of monitoring data;
- reporting of complaints;

- identification of any predicted Sensitive Receptors to be offered the Construction Sound Insulation Scheme in accordance with Conditions 90 and 91 and the proposed Phasing Plan for the carrying out such Construction Sound Insulation in each case;
- section 61 procedure and ownership;
- location, dimensions and materials of any construction noise barriers; and
- any other mitigation measures to be implemented at source"

5.4 Planning condition 89 – Construction sound Insulation for sensitive receptors

- 5.4.1 "No Development shall be Commenced until a Construction Sound Insulation Scheme for the purposes of Conditions 90 and 91 has been submitted to and approved in writing by the local planning authority. The Construction Sound Insulation Scheme shall provide a sound reduction of not less than 35dB averaged over 100 Hz to 3150 Hz in accordance with the procedure of British Standard Publication BS EN ISO 140: Part 5 for each Sensitive Receptor.
- 5.4.2 Reason: To ensure that affected Sensitive Receptors are suitably mitigated against intrusive construction noise impacts."

5.5 Planning condition 90 – night time construction sound insulation

- 5.5.1 "Prior to Commencement of Development of the relevant Phase approved under Condition 4, any works required in accordance with the Construction Sound Insulation Scheme approved under Condition 89 shall be offered to Sensitive Receptors, predicted or measured to be exposed to construction noise levels between 2300 hours and 0700 hours the following day above 50dB L_{Aeq} 15min at 1 metre from the façade as a result of the Construction of the Development:
 - for at least 10 days in any 15 consecutive working days; or
 - for at least 20 days in any consecutive 6 months;
- 5.5.2 unless sound insulation of equivalent acoustic performance to that set out in the Construction Sound Insulation Scheme has already been installed under the Airport's existing sound insulation schemes.
- 5.5.3 Where such an offer is accepted and access provided to the relevant dwelling the

Airport shall implement the insulation works required under the approved Construction Sound Insulation Scheme in accordance with the Phasing Plan forming part of the CEMP approved under Condition 88.

5.5.4 Reason: To ensure a satisfactory standard of development and to safeguard the amenities of the surrounding area."

5.6 Condition 91 - Day time construction noise mitigation

- 5.6.1 "Condition 4, any works required in accordance with the Construction Sound Insulation Scheme approved under Condition 89 shall be offered to Sensitive Receptors predicted or measured to be exposed to construction noise levels as a result of the Construction of the Development at 1 metre from the façade in excess of those set out in the table below either:
 - for at least 10 days in any 15 consecutive working days; or
 - for at least 20 days in any consecutive 6 months;
- 5.6.2 unless sound insulation of equivalent acoustic performance to that set out in the Construction Sound Insulation Scheme has already been installed under the Airport's existing sound insulation schemes.

Day	Time (hours)	Averaging period, T (hours)	Noise insulation trigger level LAeq,T (façade)
Monday to Friday	0800 to 1800	10	75
	0700 to 0800 and 1800 to 2300	1	65
Saturday	0800 to 1300	5	75
Saturday	0700 to 0800 and 1300 to 2300	1	65
Sunday	0800 to 2300	1	55

- 5.6.3 Where such offer is accepted and access provided to the relevant dwelling the Airport shall implement the insulation works required under the approved Construction Sound Insulation Scheme in accordance with the Phasing Plan forming part of the CEMP approved under Condition 88.
- 5.6.4 Reason: To ensure a satisfactory standard of development and to safeguard the amenities of the surrounding area."

APPENDIX 3

Annexure 10 from Section 106 Agreement dated 27th April 2016

ANNEXURE 10

Construction Sound Insulation Scheme

1 Purpose of the Scheme

- 1.1 This Scheme provides for sound insulation works to be undertaken at Affected Dwellings in order to mitigate the noise impacts of the construction of the Development.
- 1.2 The Scheme will comprise the following:
 - (a) Advance Sound Insulation Works; and
 - (b) Standard Sound Insulation Works
- 1.3 The Scheme will provide works to achieve an average sound reduction of not less than 35 dB averaged over 100 to 3150 Hz in accordance with the procedure of British Standard Publication BS EN ISO 16283-3:2016 and BS EN ISO 16283-1:2014 (or any subsequent revisions of these publications) in respect of each Affected Dwelling.
- 1.4 An Affected Dwelling will be eligible for these works notwithstanding the refusal of a previous offer by the Airport Companies to undertake at that dwelling any Past Noise Insulation Works and any CADP Noise Insulation Works.

2 Advance Sound Insulation Works

- 2.1 Scope of works
 - (a) Advance Sound insulation Works will consist of high performance double glazing and mechanical ventilation or (at the owner's/occupier's election) secondary glazing and mechanical ventilation.
 - (b) Only the "Habitable Rooms" in a dwelling may benefit from the works undertaken pursuant to the Construction Sound Insulation Scheme; these are the following rooms: living room, bedroom (not including a bathroom or an en-suite), dining room, either a kitchen in excess of 7 m2 if the living room is less than 14 m2 or a kitchen in excess of 11 m2 where the living room is 14 m2 or more.
 - (c) Only elevations facing the Development can benefit from works undertaken pursuant to the Construction Sound Insulation Scheme
- 2.2 Affected Dwellings
 - (a) An Affected Dwelling for the purpose of Advance Sound Insulation Works is:
 - (i) a residential dwelling listed in the Appendix to this Annexure (at the time of the Appeal predicted to experience or considered to be at risk of experiencing night time (2300 to 0700 hours) construction noise levels of 55 dB LAeq, 15 min or more when measured at 1 metre from the façade either (a) for at least 10 days in any 15 consecutive working days or (b) for at least 20 days in any 6 consecutive months; or
 - (ii) a residential dwelling which is predicted in the Construction Environmental Management Plan ("CEMP") approved under the conditions attached to the Planning Permission to experience night time (2300 to 0700 hours) construction noise levels of 55 dB LAeq, 15 min or more when measured at 1 metre from the

façade either (a) for at least 10 days in any 15 consecutive working days¹ or (b) for at least 20 days in any 6 consecutive months (the "Advance Sound Insulation Works Noise Level"); or

(iii) a residential dwelling which, through actual measurement during the construction of the development, is found to experience night time construction noise equivalent to the Advance Sound Insulation Works Noise Level.

2.3 Procedure

- (a) The Airport Companies will offer the owner and (if different) the occupier of each Affected Dwelling the opportunity to have Advance Sound Insulation Works undertaken at the Affected Dwelling in accordance with the following procedure:
 - for owners and (if different) the occupier of Affected Dwellings listed within the Appendix to this Annexure 10, the Airport Companies shall make an offer to provide Advance Sound Insulation Works at least six months before the Commencement of Development;
 - (ii) for owners and (if different) the occupier of Affected Dwellings identified as such through the CEMP, the Airport Companies shall make offers to provide Advance Sound Insulation Works in accordance with the phasing plan in the approved CEMP with the objective of ensuring that (subject to acceptance by the owner and occupier of the offer of works and permitting access to the relevant dwelling) the Advance Sound Insulation Works are completed at each Affected Dwelling before the construction activity, which is predicted to give rise to the Advance Sound Insulation Works Noise Level at that Affected Dwelling, begins; and
 - (iii) for owners and (if different) the occupier of Affected Dwellings which, through measurement, are found to experience night time construction noise equivalent to the Advance Sound Insulation Works Noise Level, the Airport Companies shall make an offer to provide Advance Sound Insulation Works as soon as reasonably practicable and in any event no later than 28 days following identification of the Affected Dwelling through measurement.
- (b) Where within one month of making the same an offer of Advance Sound Insulation Works is accepted by the owner/occupier of the Affected Dwelling and access is provided to the Affected Dwelling, the Operator shall implement the Advance Sound Insulation Works as soon as reasonably practicable following acceptance of the offer and access being provided and in any event, in accordance with the Phasing Plan forming part of the approved CEMP.

3 Standard Sound Insulation Works

- 3.1 Scope of works
 - (a) Standard sound insulation works will consist of secondary glazing and mechanical ventilation.
 - (b) Only the "Habitable Rooms" in a dwelling may benefit from the works undertaken pursuant to the Construction Sound Insulation Scheme; these are the following rooms: living room, bedroom (not including a bathroom or an en-suite), dining room, either a kitchen in excess of 7 m2 if the living room is less than 14 m2 or a kitchen in excess of 11 m2 where the living room is 14 m2 or more.
 - (c) Only elevations facing the Development can benefit from works undertaken pursuant to the Construction Sound Insulation Scheme

¹ 'working days' in this Annexure means any day on which construction works forming part of the Development are undertaken

3.2 Affected Dwellings

- (a) An Affected Dwellings for the purpose of Standard Sound Insulation Works is:
 - (i) a residential dwelling which is not eligible for the Advance Sound Insulation Works;
 - a residential dwelling which is predicted in the approved CEMP, or through actual measurement, found to experience:
 - (A) night time (2300 to 0700 hours) construction noise levels of 50 dB LAeq, 15 min or higher when measured at 1 metre from the façade either (a) for at least 10 days in any 15 consecutive working days or (b) for at least 20 days in any 6 consecutive months; or
 - (B) daytime (0700 to 2300 hours) construction noise levels in excess of those set out in the table below either (a) for at least 10 days in any 15 consecutive working days or (b) for at least 20 days in any consecutive 6 months (the night time and daytime noise levels being each referred to as the "Standard Sound Insulation Works Noise Level").

Day	Time	Averaging period, T	Noise insulation trigger level LAeq,T (façade)
Monday to Friday	0800 to 1800 0700 to 0800	10 hours 1 hour	75 65
	1800 to 2300	1 hour	65
Saturday	0700 to 0800 0800 to 1300 1300 to 2300	1 hour 5 hours 1 hour	65 75 65
Sunday	0800 to 2300	1 hour	55

3.3 Procedure

- (a) The Airport Companies will offer the owner and (if different) the occupier of each Affected Dwelling the opportunity to have Standard Sound Insulation Works undertaken at the Affected Dwelling in accordance with the following procedure:
 - (i) for owners and (if different) the occupier of Affected Dwellings identified as such through the CEMP, the Airport Companies shall make an offer to provide Standard Sound Insulation Works in accordance with the phasing plan in the approved CEMP with the objective of ensuring that (subject to acceptance by the owner and occupier of the offer of works and permitting access to the relevant dwelling) the Standard Sound Insulation Works are completed at each Affected Dwelling before the construction activity, which is predicted to give rise to the Standard Sound Insulation Works Noise Level at that Affected Dwelling, begins; and
 - (ii) for owners and (if different) the occupier of Affected Dwellings which, through measurement, are found to experience night time construction noise equivalent to the Standard Sound Insulation Works Noise Level, the Airport Companies shall make an offer to provide Standard Sound Insulation Works as soon as reasonably practicable and in any event within 28 days following identification of the Affected Dwelling through measurement.
- (b) Where within one month of making the same an offer of Standard Sound Insulation Works is accepted by the owner/occupier of the Affected Dwelling and access is provided to the Affected Dwelling, the Operator shall implement the Standard Sound Insulation Works as soon as reasonably practicable following acceptance of the offer and access being provided and in any event in accordance with the Phasing Plan forming part of the CEMP.

Appendix to Construction Noise Sound Insulation Scheme

ALBION HOUSE		FLAT 21	CHURCH STREET	E16 2ND
ALBION HOUSE		FLAT 22	CHURCH STREET	E16 2ND
ALBION HOUSE		FLAT 23	CHURCH STREET	E16 2ND
ALINON HOUSE		FLAT 29	CHURCH STREET	E16 2ND
ALBION HOUSE		FLAT 30	CHURCH STREET	E16 2ND
ALBION HOUSE		FLAT 31	CHURCH STREET	E16 2ND
ALBION HOUSE		FLAT 25	CHURCH STREET	E16 2ND
ALBION HOUSE		FLAT 25	CHURCH STREET	E16 2ND
ALBION HOUSE		FLAT 27	CHURCH STREET	E16 ZND
	19		CLAREMONT CLOSE	E16 2LR
·····	20		CLAREMONT CLOSE	E16 2LR
	21		CLAREMONT CLOSE	E16 2LR
	22		CLAREMONT CLOSE	E16 2LR
	23		CLAREMONT CLOSE	E16 ZLR
	24		CLAREMONT CLOSE	E16 2LR
	25		CLAREMONT CLOSE	E16 2LR
	26		CLAREMONT CLOSE	E16 2LR
i	27		CLAREMONT CLOSE	E16 ZLR
	28		CLAREMONT CLOSE	E16 ZLR
	29		CLAREMONT CLOSE	E16 ZLR
	30		CLAREMONT CLOSE	E16 2LR
	31		CLAREMONT CLOSE	E16 ZLR
	32		CLAREMONT CLOSE	E16 ZLR
	33		CLAREMONT CLOSE	E16 ZLR
	35		CLAREMONT CLOSE	E16 2LR
	36		CLAREMONT CLOSE	E16 2LR
	37		CLAREMONT CLOSE	E16 2LR
	38		CLAREMONT CLOSE	E162LR
	39		CLAREMONT CLOSE	E16 2LR
	40		CLAREMONT CLOSE	E16 2LR
	41		CLAREMONT CLOSE	E16 2LR
· ·	42		CLAREMONT CLOSE	E16 ZLR
	56		CLAREMONT CLOSE	E16 2LR
			CLAREMONT CLOSE	E16 ZLR
	60		CLAREMONT CLOSE	E16 2LR
	61		CLAREMONT CLOSE	E16 ZLR
	62			E16 2LR
	63		CLAREMONT CLOSE	E16 2LR
	65	FLAT7	CLAREMONT CLOSE	E16 2LR
	65	FLAT 3	CLAREMONT CLOSE	E16 2LR
SHAW HOUSE	_	FLAT 30	CLAREMONT STREET	E16 2LP
SHAW HOUSE		FLAT 21	CLAREMONT STREET	E16 2LP

SHAW HOUSE		FLAT 22	CLAREMONT STREET	E16 2LP
SHAW HOUSE	1	FLAT 29	CLAREMONT STREET	E16 21P
SHAW HOUSE		FLAT 25	CLAREMONT STREET	E16 2LP
SHAW HOUSE		FLAT 25	CLAREMONT STREET	E16 21P
	12		FELDSTOWE COURT	E16 ZAR
	17		FELIXISTOWE COUNT	£16 28R
	18		FELIXSTOWNE COURT	E16 28R
	33		FELDISTOWIE COURT	E16 28R
	34		FELIXSTOWE COURT	E16 2RR
	35		FELDISTOWE COURT	E16 2RR
	36		FELDISTOWE COURT	E16 2RR
	39		FELDSTOWE COURT	É16 ZNR
	40]	FELDISTOWE COURT	E16 ZRR
	41		FELDSTOWE COURT	E16 2RR
	42		FELIXSTOWE COURT	E16 288
	47		FELDISTOWIE COURT	E16 2RR
	48		FELDSTOWE COURT	E16 2RR
	53		FELDISTOWE COURT	E16 2RR
	54		FELDSTOWE COURT	E16 2RR
	55		FELIXSTOWE COURT	E16 2RR
	56		FELDSTOWE COURT	E16 2RR
	59		FELDISTOWE COURT	E16 2RR
	62		FELDISTOWE COURT	E16 2RR
	105		FELOSTOWE COURT	E16 285
	107		FELOSTOWE COURT	E16 285
	4		FEANHALL STREET	E16 2HZ
	5		FISHELIARD WAY	E16 29G
BROCKLEBANK HOUSE		FLAT 13	GLEMISTER STREET	E16 2LY
BROCKLEBANK HOUSE		FLAT 14	GLEMISTER STREET	E16 21.Y
BROCKLEBANK HOUSE		FLAT 21	GLEWISTER STREET	E16 2LY
BROCKLEBANK HOUSE		FLAT 22	GLENISTER STREET	E16 214
BRDCKLEBANK HOUSE		FLAT 17	GLENNISTER STREET	E16 2LY
BROCKLEBANK HOUSE		FLAT 18	GLENISTER STREET	E16 ZLV
BROCKLEBANK HOUSE		FLAT 29	GLENISTER STREET	E16 21 Y
BROCKLEBANK HOUSE		FLAT 25	GLENISTER STREET	E16 2LY
BROCKLEBANK HOUSE		FLAT 26	GLENISTER STREET	E16 2LY
BROCKLEBANK HOUSE		FLAT 30	GLENISTER STREET	€16 ZLY
	25		GRENADIER STREET	£16 2LD
	26		GRENADIER STREET	E16 210
	27		GRENADIER STREET	E16 2LD
	28		GRENADIER STREET	E16 21D
	22		GRIMSBY GROVE	E16 2RJ
	24		GRIMSBY GROVE	£16 2RJ

31 LEONARD STREET E1 33 LEONARD STREET E1 35 LEONARD STREET E1 37 LEONARD STREET E1 2 LORD STREET E1 10 LORD STREET E1 12 LORD STREET E1 14 LORD STREET E1 15 LORD STREET E1 18 LORD STREET E1 29 LOND STREET E1 0UNEDIN HOUSE FLAT 12 MANWOOD STREET E1 0UNEDIN HOUSE FLAT 14 MANWOOD STREET E1 0UNEDIN HOUSE FLAT 15 MANWOOD STREET E1 0UNEDIN HOUSE FLAT 10 MANWOOD STREET E1 0UNEDIN HOUSE FLAT 10 MANWOOD STREET E1 0UNEDIN HOUSE FLAT 20 MANWOOD STREET E1 0UNEDIN HOUSE FLAT 21 MANWOOD STREET E1 0UNEDIN HOUSE FLAT 22 MANWOOD STREET E1 0UNEDIN HOUSE FLAT 21 MANWOOD STREET	6 201 6 201 6 207 6 207 6 207 6 207 6 202 6
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	16 21A
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DUNEDIN HOUSE FLAT 29 MANWOOD STREET EL	16 2LA
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DUNEDIN HOUSE FLAT 25 MANWOOD STREET ES	16 2LA
	16 21A
DUNEDIN HOUSE FLAT 34 MANWOOD STREET ES	16 2KA
DUNEDIN HOUSE FLAT 35 MANWOOD STREET E3	16 2LA
DUNEDIN HOUSE FLAT 36 MANWOOD STREET EX	IS ZLA
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DUNEDIN HOUSE FLAT 30 MANWOOD STREET ET	16 2LA
	16 2LA
	16 2LA
	16 21.8
	16 218
	16 ZLB
	16 21.8
	16 21.8

Dimension Lineare	I.	1	L.	
DUNEDIN HOUSE	-	FLAT S4	MANWOOD STREET	£16 21.8
DUNEDIN HOUSE		FLAT-49	MANWOOD STREET	£16 2L8
DUNEDIN HOUSE	+	FLAT SO	MANWOOD STREET	£16 2LB
DUNEDIN HOUSE	_	RAT 61	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE	1	FLAT 62	MANWOOD STREET	E16 2LE
DUNEDRY HOUSE	+	FLAT 57	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE		FLAT SE	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE	<u> </u>	FLAT 69	MANWOOD STREET	£16 2LB
DUINEDIN HOUSE		FLAT 70	MANWOOD STREET	E16 ZLB
DUNEDIN HOUSE		FLAT 65	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE		PLAT 66	MANWOOD STREET	£16 2UB
DUNEDIN HOUSE		FLAT7	MANWOOD STREET	E16 2LA
DUNEDIN HOUSE		FLAT8	MANWOOD STREET	£16 21A
DUNEDIN HOUSE		FLAT 38	MANWOOD STREET	E16 2LA
DUNEDIN HOUSE		FLAT 73	MANWOOD STREET	E16 2L8
108			NEWLAND STREET	E16 20U
129			NEWLAND STREET	E16 20U
2A			NEWLAND STREET	E16 2DU
28			NEWLAND STREET	E16 20U
44			NEWLAND STREET	E16 2DU
48			NEWLAND STREET	£16 2DU
6A			NEWLAND STREET	E16 20U
68	1		NEWLAND STREET	E16 204
EA.	1		NEWLAND STREET	£16 20U
58			NEWLAND STREET	E16 20U
	2		NEWLAND STREET	E16 20U
	4		NEWLAND STREET	E16 ZDU
	6		NEWLAND STREET	E16 200
	8		NEWLAND STREET	E16 2DU
	18		NEWLAND STREET	E16 2HM
	20		NEWLAND STREET	E16 2HN
	22		NEWLAND STREET	E16 29HN
	24		NEWLAND STREET	E16 2HN
	30		NEWLAND STREET	E16 2HN
	32		NEWLAND STREET	E16 ZHN
	34		NEWLAND STREET	E16 2HN
	36		NEWLAND STREET	E16 2HN
	80		NEWLAND STREET	E16 2HON
	82		NEWLAND STREET	E16 2HN
	86		NEWLAND STREET	E16 2HN
			NEWLAND STREET	E16 2HN
	88 1			
	92		NEWLAND STREET	E16 ZHN

1	96		NEWLAND STREET	\$1.6 2NN
	43		PERPARADE	£15 2U
	44		PIER PARADE	E16 2LJ
	-65		PIER PARADE	E16 2U
	46		PIER PARADE	E16 2U
	3		NAWSTHORNE CLOSE	E15 2/R
	5		NAWSTHORNE CLOSE	E16 2JR
	14		NAWSTHORNE CLOSE	E16 2.IR
SAVILLE HOUSE		FLAT 13	ROBERT STREET	E15 2NA
SAVILLE HOUSE		FLAT 14	ROBERT STREET	E16 204
SAVILLE HOUSE		FLAT 21	ROBERT STREET	E16 2NA
SAVILLE HOUSE		FLAT 22	ROBERT STREET	E16 2NA
SAVILLE HOUSE		FLAT 17	NOBERT STREET	E16 2NA
SAVILLE HOUSE		FLAT 18	ROBERT STREET	E16 2NA
SAVILLE HOUSE		FLAT 29	ROBERT STREET	E16 2NA
SAVILLE HOUSE		FLAT 25	ROBERT STREET	E16 2NA
SAVILLE HOUSE		FLAT 26	ROBERT STREET	E16 2NA
SAVILLE HOUSE		FLAT 30	ROBERT STREET	E16 ZNA
QUEENSLAND HOUSE		FLAT 44	RYMILL STREET	E16 210
QUEENSLAND HOUSE		FLAT 45	RVMEL STREET	E16 2LQ
QUEENSLAND HOUSE		FLAT 46	RYMILL STREET	E16 2LQ
QUEEKSLAND HOUSE		RAT 47	RYMILL STREET	E16 21Q
QUEEKSLAND HOUSE		FLAT 41	RYMILL STREET	E16 2LQ
OLIEENSLAND HOUSE	1	FLAT 42	RYMEL STREET	E16 2LO
QUEENSLAND HOUSE		FLAT 43	RYMILL STREET	E16 2LQ
QUEEKSLAND HOUSE		RAT 52	RYMILL STREET	E16 2LQ
QUEENSLAND HOUSE		FLAT 53	RYMILL STREET	E16 21.0
QUEENSLAND HOUSE		FLAT 54	RYMILL STREET	E16 2LQ
QUEENSLAND HOUSE		FLAT \$5	RYMILL STREET	E15 2LQ
QUEENSLAND HOUSE		FLAT 48	RYMUL STREET	E16 26Q
QUEENSLAND HOUSE		FLAT 49	RYMILL STREET	E16 240
QUEENSLAND HOUSE	1	FLAT 50	RYMILL STREET	E16 34Q
QUEENSLAND HOUSE	1	FLAT S1	RYMILL STREET	E16 2LQ
QUEENSLAND HOUSE		FLAT 60	RYMELL STREET	E16 2LQ
QUEENSLAND HOUSE	<u> </u>	FLAT 61	RYMILL STREET	E16 210
QUEENSLAND HOUSE	1	FLAT 62	RYNHLL STREET	E16 21Q
QUEENSLAND HOUSE	1	FLAT 63	RYMILL STREET	E16 2LQ
QUEENSLAND HOUSE		FLAT 56	RYMILL STREET	E16 2LQ
QUEENSLAND HOUSE	1	FLAT 57	RYMILL STREET	E16 21.Q
QUEENSLAND HOUSE	1	FLAT SE	RYMILL STREET	E16 24.Q
QUEENSLAND HOUSE	1-	RAT 59	RYWALL STREET	E16 260
QUEENSLAND HOUSE		FLAT 68	RYMALL STREET	E16 210
QUEENSLAND HOUSE		FLAT 69	RYMILL STREET	E16 2LQ

QUEENSLAND HOUSE	FLAT 70	RYMILL STREET	E16 2LQ
QUEENSLAND HOUSE	FLAT 71	RYMILL STREET	E16 24.Q
QUEENSLAND HOUSE	FLAT 64	RYMILL STREET	E16 21.Q
QUEENSLAND HOUSE	FLAT 65	RYMILL STREET	E16 210
QUEENSLAND HOUSE	FLAT 66	RYMILL STREET	E16 210
QUEENSLAND HOUSE	FLAT 67	RYMILL STREET	E16 2LQ
QUEENSLAND HOUSE	FLAT 12	RYMILL STREET	E15 2LG
QUEENSLAND HOUSE	FLAT 13	RYMILL STREET	615 216
QUEENSLAND HOUSE	FLAT 15	RYMILL STREET	E16 216
QUEENSLAND HOUSE	FLAT 11	RYMILL STREET	E15 21G
QUEENSLAND HOUSE	AAT 20	RYMILL STREET	E16 216
QUEENSLAND HOUSE	FLAT 21	RYMILL STREET	E16 21G
QUEENSLAND HOUSE	FLAT 16	RYMILL STREET	E16 216
QUEENSIAND HOUSE	FLAT 17	RYMILL STREET	E16 21G
QUEENSLAND HOUSE	FLAT 19	RYMEL STREET	E16 21G
QUEENSLAND HOUSE	FLAT 27	RYMILL STREET	E16 21G
QUEENSLAND HOUSE	FLAT 28	RYMILL STREET	E16 21G
QUEENSLAND HOUSE	FLAT 29	RYMILL STREET	E15 21G
QUEENSLAND HOUSE	FLAT 23	RYMILL STREET	E16 216
QUEENSLAND HOUSE	FLAT 24	RYMILL STREET	E16 21G
QUEENSLAND HOUSE	FLAT 25	RYMILL STREET	E16 21G
QUEENSLAND HOUSE	FLAT 25	RYMEL STREET	E16 2LG
QUEENSLAND HOUSE	RAT M	RYMILL STREET	E16 2LG
QUEENSLAND HOUSE	FLAT 35	RYMILL STREET	E16 21G
QUEENSLAND HOUSE	FLAT 36	RYMELL STREET	E16 21.G
QUEENSLAND HOUSE	FLAT 37	RYMILL STREET	E16 21G
QUEENSLAND HOUSE	FLAT 30	RYMILL STREET	E16 21.5
QUEENSLAND HOUSE	FLAT 31	RYMUL STREET	£16 21.G
QUEENSLAND HOUSE	FLAT 32	RYMILL STREET	E16 21.G
QUEENSLAND HOUSE	FLAT 33	RYMILL STREET	£16 21G
QUEENSLAND HOUSE	FLAT 72	RYMILL STREET	E15 71.0
QUEENSLAND HOUSE	FLAT 73	RYMILL STREET	E16 21.0
QUEENSLAND HOUSE	FLAT 74	RYMILL STREET	E16 21Q
QUEENSLAND HOUSE	PLAT 5	RYMILL STREET	E16 21G
QUEENSLAND HOUSE	FLAT B	RYMILL STREET	E16 21G
QUEENSLAND HOUSE	FLAT 38	RYMILL STREET	E16 2L6
QUEENSLAND HOUSE	FLAT 39	RYMILL STREET	£16 2LG
QUEENSLAND HOUSE	FLAT 40	RYMILL STREET	E15 21G
QUEEKSLAND HOUSE	FLAT 9	RYMRL STREET	E16 2LG
WESTLAND HOUSE	FLAT 10	RYMILL STREET	£16 2LE
WESTLAND HOUSE	FLAT 17	RYMEL STREET	E16 21E
WESTLAND HOUSE	FLAT 18	RYMILL STREET	E16 ZLE

WESTLAND HOUSE	FLAT 15	RYMILL STREET	E16 2LE
WESTLAND HOUSE	FLAT 24	RYMILL STREET	E16 ZLE
WESTLAND HOUSE	RAT 25	RYMELL STREET	E16 2LE
WESTLAND HOUSE	FLAT 25	RYMUL STREET	E16 21.E
WESTLAND HOUSE	FLAT 20	RYMILL STREET	£16 21.E
WESTLAND HOUSE	FLAT 21	RYMILL STREET	E16 2LE
WESTLAND HOUSE	FLAT 22	RYMBL STREET	E16 2LE
WESTLAND HOUSE	FLAT 32	RYMEL STREET	E36 2LE
WESTLAND HOUSE	FLAT 33	RYMILL STREET	ELG 2LE
WESTLAND HOUSE	FLAT 34	RYMUL STREET	£16 2LE
WESTLAND HOUSE	FLAT 28	RYMILL STREET	E16 2LE
WESTLAND HOUSE	FLAT 29	RYMEL STREET	£16 2LE
WESTLAND HOUSE	PLAT 30	RYMILL STREET	E16 2LE
WESTLAND HOUSE	FLAT 40	RYMILL STREET	E16 2LE
WESTLAND HOUSE	PLAT 36	RYMAL STREET	E16 2LE
WESTLAND HOUSE	FLAT #7	RYMEL STREET	E16 2LE
WESTLAND HOUSE	FLAT 38	RYMILL STREET	E16 21.E
WESTLAND HOUSE	FLAT 12	RYMILL STREET	E16 21.E
WESTLAND HOUSE	FLAT 59	RYMALL STREET	£16 21F
WESTLAND HOUSE	FLAT 13	NYMILL STREET	E16 2LE
WESTLAND HOUSE	FLAT 60	RYMILL STREET	£16 21.F
WESTLAND HOUSE	FLAT 61	RYMAL STREET	E16 21F
WESTLAND HOUSE	FLAT 62	RYMEL STREET	E16 2UF
WESTLAND HOUSE	FLAT 56	RYMELL STREET	E16 2UF
WESTLAND HOUSE	FLAT 57	RYMELL STREET	E16 2UF
WESTLAND HOUSE	FLAT 58	RYMILL STREET	E16 2LF
WESTLAND HOUSE	FLAT 67	RYNELL STREET	E16 2LF
WESTLAND NOUSE	RAT 68	RYMAL STREET	E16 21F
WESTLAND HOUSE	FLAT 69	RYMALL STREET	E16 21.F
WESTLAND HOUSE	FLAT 70	RYMILL STREET	E16 21F
WESTLAND HOUSE	RAT 63	RYMILL STREET	E16 2UF
WESTLAND HOUSE	RAT 64	RYMILL STREET	E16 2UF
WESTLAND HOUSE	FLAT 65	RYMILL STREET	E15 2UF
WESTLAND HOUSE	FLAT GE	RYMILL STREET	E16 21.P
WESTLAND HOUSE	FLAT 71	RYMILL STREET	E16 21F
WESTLAND HOUSE	FLAT 72	RYMILL STREET	E16 21F
WESTLAND HOUSE	FLAT 73	RYMILL STREET	E16 2LF
WESTLAND HOUSE	FLAT 74	RYMILL STREET	€16 21F
WESTLAND HOUSE	FLAT 41	RYMEL STREET	E16 2UF
WESTLAND HOUSE	FLAT 42	RYMILL STREET	£16.21F
WESTLAND HOUSE	FLAT 43	RYMILL STREET	E16 2UF
WESTLAND HOUSE	FLAT 44	RYMUL STREET	£16 2UF
WESTLAND HOUSE	FLAT	RYMILL STREET	E16 2LE

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WESTLAND HOUSE		RATS	RYMILL STREET	E16 2LE
WESTLAND HOUSE		FLAT 49	RYMILL STREET	E16 21F
WESTLAND HOUSE		RAT SO	RYMUL STREET	E16 215
WESTLAND HOUSE		RAT SI	RYMILL STREET	E16 20F
WESTLAND HOUSE		PLAT S2	RYMILL STREET	E16 21F
WESTLAND HOUSE		FLAT 45	RYMILL STREET	E16 2UF
WESTLAND HOUSE		FLAT 46	RYMILL STREET	£16 2UF
WESTLAND HOUSE		FLAT 47	RYMILL STREET	£16 2UF
WESTLAND HOUSE		FLAT 48	RYMILL STREET	£16 2UF
WESTLAND HOUSE		FLAT 53	RYMILL STREET	£16 2UF
WESTLAND HOUSE		FLAT 54	RYMILL STREET	E16 2UF
WESTLAND HOUSE		FLAT 55	RYMILL STREET	E16 2UF
	ୟ		SHELDRAKE CLOSE	E16 2HT
	64		SHELDRAKE CLOSE	E16 2HT
	66		SHELDRAKE CLOSE	E16 2HT
	-58		SHELDRAKE CLOSE	E16 2HT
	70		SHELDRAKE CLOSE	E16 2HT
	n		SHELDRAKE CLOSE	E16 2HT
	92		SHELDRAKE CLOSE	E162HT
	я		SHELDRAKE CLOSE	E16 2HT
	110		SHELDRAKE CLOSE	E16 2HT
	112		SHELDRAKE CLOSE	E16 2HT
	114		SHELDRAKE CLOSE	E16 2HT
	116		SHELDRAKE CLOSE	E16 2HT
	120		SHELDRAKE CLOSE	E16 2HT
GLEN HOUSE		FLAT 21	STOREY STREET	E16 213J
GLEN HOUSE		FLAT 22	STOREY STREET	E16 210/
GLEN HOUSE		FLAT 29	STOREY STREET	E16 7.UJ
GLEN HOUSE		FLAT 30	STOREY STREET	E16 21U
GLEN HOUSE		FLAT 25	STOREY STREET	E16 21U
glen house		FLAT 26	STOREY STREET	E16 2111
	43		WINEFRED STREET	E16 2HX
	50		WINIFRED STREET	E16 2HX
	52		WINFRED STREET	E16 2HK
	54		WINIFRED STREET	E16 2H00
	56		WINIFRED STREET	E16 2H0K
	94		WINIFRED STREET	E16 2HX
	96		WINIFRED STREET	E16 2HK
	100		WINIFRED STREET	E16 2HX
	102		WINIFRED STREET	E16 2HX
	104		WINIFRED STREET	E16 2HX
	106		WINIFRED STREET	E16 2HX
15A	1		WOODMAN STREET	E16 2NF

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204		WOODMAN STREET	E16 2N#
26A		WOODMAN STREET	E16 2NF
28A		WOODMAN STREET	£16 2MF
344		WOODMAN STREET	E16 2NF
36A		WOODMAN STREET	£16 2MF
44.		WOODMAN STREET	E16 2LS
52A		WOODMAN STREET	E16 215
58A		WOODMAN STREET	E16 2LS
60A		WOODMAN STREET	E15 2LS
GRA		WOODMAN STREET	E16 265
76A		WOODMAN STREET	E16 215
	9	WOODMAN STREET	E16 2LN
	16	WOODMAN STREET	E16 2NF
	16	WOODMAN STREET	£16 2LL
	20	WOODMAN STREET	E16 2NF
	26	WOODMAN STREET	£16 2NF
	25	WOODMAN STREET	E16 2NF
	34	WOODMAN STREET	E16 2NF
	36	WOODMAN STREET	E16 2NF
	44	WOODMAN STREET	E15 2L5
	52	WOODMAN STREET	E16 2L5
	60	WOODMAN STREET	E16 2LS
	68	WOODMAN STREET	E16 2LS
	76	WOODMAN STREET	£16 2LS

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	¥		CLAREMONT CLOSE	E16 2UR
	64		CLAREMONT CLOSE	£16 21.R
	65	FLAT 6	CLAREMONT CLOSE	£16 2LR
	65	FLATS	CLAREMONT CLOSE	E16 2LR
	8	FLATS	CLAREMONT CLOSE	E16 2LR
	45		FELDISTOWE COURT	E15 2RR
	46		FELRSTOWE COURT	E16 2RR
	29		GRENADIER STREET	E16 2LD
DUNEDIN HOUSE		FLAT 31	MANWOOD STREET	E16 21A
DUNEDRI HOUSE	1	FLAT 43	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE		FLAT 44	MANWOOD STREET	E16 2LB
DU'NEDIN HOLISE		FLAT 51	MANWOOD STREET	E16 2LB
DUNEON HOUSE		RAT 52	MANWOOD STREET	E16 2L8
DUNEDIN HOUSE		FLAT 47	MANWOOD STREET	E16 2LB
DUNEON HOUSE		RAT 48	MANWOOD STREET	E16 2LB
DUINEDIN HOUSE		FLAT 59	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE		FLAT 60	MANWOOD STREET	£16 2LB
DUNEDIN HOUSE		RAT 55	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE		RAT 56	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE		RAT 67	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE		FLAT 68	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE		RAT 63	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE	-	FLAT 64	MANWOOD STREET	E16 2LB
DUNEOIN HOUSE		FLAT 39	MANWOOD STREET	E15 2LA
DUNEDIN HOUSE		RAT 40	MANWOOD STREET	E16 2LA
DUNEDIN HOUSE		FLAT 71	MANWOOD STREET	E16 2LB
DUNEDIN HOUSE		FLAT 72	MANWOOD STREET	E16 2LB
	118		SHELDRAKE CLOSE	E16 2HT
	108		WINIFRED STREET	E16 2HDC