Plan pro forma Management Construction v2.2



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Revisions 20 additional material

Please list all iterations here:

Date	Version	Produced by
14.07.17	Α	Martin Shotton
11.09.17	В	Martin Shotton
02.10.17	С	Martin Shotton
05.10.17	D	Martin Shotton
17.11.17	Е	Martin Shotton Contract dates amended

Additional sheets

or searchable PDFs. Please note - the review process will be quicker if these are submitted as Word documents

Date	Version	Produced by
11.09.17	Appendix A	A Swept Path Drawings
11.09.17	Appendix B	Acoustic Plan by Clement Acoustics
02.10.17	Appendix C	Consultation
05.10.17	Appendix D	Appendix D Eradication of Rats



Introduction

vehicles servicing the site. construction impacts, and relates to both on site activity and the transport arrangements for The purpose of the Construction Management Plan (CMP) is to help developers to minimise

submitted for application as the development progresses It is intended to be a live document whereby different stages will be completed and

6: Amenity and (CPG) 8: Planning Obligations. kind of development. Further policy guidance is set out in Camden Planning Guidance (CPG) mitigated and managed. The level of detail required in a CMP will depend on the scale and the proposed works, and any cumulative impacts of other nearby construction sites, will be The completed and signed CMP must address the way in which any impacts associated with

Minimum Requirements for Building Construction (CMRBC) Standard for Construction Logistics and Community Safety (CLOCS) scheme) and Camden's This CMP follows the best practice guidelines as described in Transport for London's (TfL's

must also be approved by the Council and complied with thereafter. problems arise in relation to the construction of the development. Any future revised plan The approved contents of this CMP must be complied with unless otherwise agreed with the Council in writing. The project manager shall work with the Council to review this CMP if

any separate consents or approvals such as for road closures or hoarding licences It should be noted that any agreed CMP does not prejudice or override the need to obtain

Building Control Service. Please complete the "Demolition Notice." If your scheme involves any demolition, you need to make an application to the Council's

additional documents, are completed electronically and submitted as Word files to allow provide as much information as is necessary. It is preferable if this document, and all comments to be easily documented. These should be clearly referenced/linked to from required. The boxes will expand to accommodate the information provided, so please Please complete the questions below with additional sheets, drawings and plans as

Please notify that council when you intend to start work on site. Please also notify the council when works are approximately 3 months from completion.



materials, construction, etc.) (Note the term 'vehicles' used in this document refers to all vehicles associated with the implementation of the development, e.g. demolition, site clearance, delivery of plant &

Revisions to this document may take place periodically.



Timeframe

Council response to second draft Council response to draft Requirement to submit CMP refused Resubmission of CMP if first draft Work can commence if draft CMP Submit draft CMP is approved Begin community liaison Post app submission Appoint principal contractor



Contact

1. Please provide the full postal address of the site and the planning reference relating to the construction works.

Address: 10-11 Kings Mews London WC1N 2ES

Planning application reference:

2012/631/P

Type of CMP - Section106

Condition discharge

Please provide contact details for the person responsible for submitting the CMP.

Name: Martin Shotton

Address: James Taylor House St Albans Road East

Hatfield AL10 OHE

Email: mshotton@jamestaylorconstruction.com

Phone: +44(0) 1707 244040

management of the works and dealing with any complaints from local residents and 3. Please provide full contact details of the site project manager responsible for day-to-day



Name: Martin Shotton

Address: As Q3

Email: mshotton@jamestaylorconstruction.com

Phone: +44(0) 1707 244040



4. Please provide full contact details of the person responsible for community liaison and dealing with any complaints from local residents and businesses if different from question 3. the Camden officer responsible. In the case of Community Investment Programme (CIP), please provide contact details of

Name: Martin Shotton

Address: Site Office)

10-11 Kings Mews

Email: mshotton@jamestaylorconstruction.com

Phone: +44(0) 1707 244040

CMP. accepts receipt of legal documents for the person responsible for the implementation of the 5. Please provide full contact details including the address where the main contractor

Name: Name: Martin Shotton

Address: James Taylor House St Albans Road East

Hatfield AL10 OHE

Email: mshotton@jamestaylorconstruction.com

Phone: +44(0) 1707 244040



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and development proposals for which the CMP applies. 6. Please provide a site location plan and a brief description of the site, surrounding area



10-11 Kings Mews Holborn London

The building is within a mixed residential and commercial area at Kings Mews.

surrounding area, the site will be accessed from the rear via Kings Mews. properties to the front, side and rear. Due to the style of property, and the build up of the The surrounding area to the site includes a Public House, offices a car garage and residential



streets, close proximity to residential dwellings etc). nature of the development and details of the main issues and challenges (e.g. narrow 7. Please provide a very brief description of the construction works including the size and

existing building's footprint. The works will comprise of additional underpinning and foundations being installed within the

Subsequent works will include installing a new steel frame within the building and following and Clients requirement. refurbishment of all floor levels to the agreed specification provided by James Taylor Construction

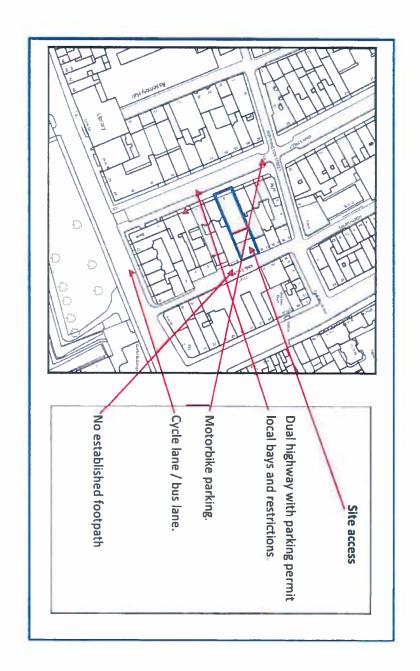
The main issues for addressing through the works are:

- Enclosed site and access from Kings Mews
- Consideration of plant and material movement
- Enclosed site and noise / disturbance to residents in Kings Mews
- Additional construction activities and developments during the works
- affected by the activities on site (i.e. noise, vibration, dust, fumes, lighting etc.). Please identify the nearest potential receptors (dwellings, business, etc.) likely to be

		Full property refurbishment	Site Access and entry		Demolition of rear extension and facade	Activity
Vibration Fumes	Dust	Noise	Vehicles Loading / Unloading Movement of materials	Dust Fumes	Noise Vibration	Impact
	surrounding areas	Occupants at Kings Mews and	Occupants at Kings Mews		Occupants at Kings Mews and surrounding areas	Affecting

the site. This should include details of on-street parking bay locations, cycle lanes, footway 9. Please provide a scaled plan detailing the local highway network layout in the vicinity of extents and proposed site access locations.





would be ideal). as an overall programme timescale. (A Gantt chart with key tasks, durations and milestones 10. Please provide the proposed start and end dates for each phase of construction as well



10-11 Kings Mews	9.10.17 Start	9.10.18 Completion
Site set out (Hording, scaffolding, site office)	Week 1	Week 2
Demolitions, alterations and Site preparation	Week 2	Week 5
Temporary work - steels	Week 3	Week 5
Installation of Metal Framing as per SE specification	Week 5	Week 8
Drainage -	Week 6	Week 7
Roofing	Week 7	Week 8
Application for Main services	Week 9	Week 9
Rear elevation brickwork	Week 9	Week 15
Timber framing and drylining	Week 10	Week 12
Windows, Doors and glazing	Week 12	Week 15
Sanitary fitting order	Week 12	Week 12
Plumbing and electrical first fix	Week 12	Week 15
Border, Plaster and Render	Week 12	Week 17
Delivery tiles, marble, kitchen	Week 20	Week 22
Stone & ceramic tiling	Week 22	Week 27
Plumbing and electrical second fix	Week 27	Week 29
Ironmongery	Week 30	Week 30
Joinery work	Week 30	Week 35
Floor Finishes	Week 35	Week 39
Fittings	Week 39	Week 41
Equipment	Week 41	Week 41
Front door, front lightwell - railing	Week 41	Week 42
Decoration	Week 35	Week 42
Snagging and cleaning	Week 42	Week 43
Cleaning, site demobilisation	Week 43	Week 52

11. Please confirm the standard working hours for the site, noting that the standard working hours for construction sites in Camden are as follows:

- 8.00am to 6pm on Monday to Friday
- 8.00am to 1.00pm on Saturdays
- No working on Sundays or Public Holidays

Monday to Friday 8.00 to 18.00

Saturday 8.00 to 13.00

undertakers' plant). Larger developments may require new utility services. If so, a strategy linked to the site during the works (i.e. connections to public utilities and/or statutory 12. Please indicate if any changes to services are proposed to be carried out that would be



details of your discussions. services are required, please confirm which utility companies have been contacted (e.g. companies to share the same excavations and traffic management proposals. Please supply Thames Water, National Grid, EDF Energy, BT etc.) You must explore options for the utility and programme for coordinating the connection of services will be required. If new utility

place with Thames Water to finalise the requirements. Full confirmation is due from initial enquiries from Thames Water. On-going correspondence is taking In accordance with initial survey of the building, the mains water supply is anticipated to be upgraded.



Community Liaison

and email address of the site manager should also be provided. works. These individuals should be provided with a copy of the draft CMP, or a link to an CMP, and any subsequent amended drafts. Contact details which include a phone number online document. They should be given adequate time with which to respond to the draft include all of those individuals that stand to be affected by the proposed construction the CMP first draft. This consultation must relate to construction impacts, and should take regardless of any prior consultations relating to planning matters. This consultation must CMP. A consultation process specifically relating to construction impacts must take place place following the granting of planning permission in the lead up to the submission of the A neighbourhood consultation process must have been undertaken prior to submission of

dictatorial and unsympathetic to the wellbeing of local residents and businesses Significant time savings can be made by running an effective neighbourhood consultation process. This must be undertaken in the spirit of cooperation rather than one that is

changes that may occur due to unforeseen circumstances through newsletters, emails and any community liaison groups being regularly updated with programmed works and any sign off. This communication should then be ongoing during the works, with neighbours and helps with their understanding of what is being proposed in terms of the development involves the local community. Involving locals in the discussion and decision making process results incorporated into the CMP first draft submitted to the Council for discussion and process. The consultation and discussion process should have already started, with the These are most effective when initiated as early as possible and conducted in a manner that

separate requirement on the developer. separate S106 obligation. If this is necessary, it will be set out in the S106 Agreement as a Please note that for larger sites, details of a construction working group may be required as

Cumulative impact

Sites located within high concentrations of construction activity that will attract large consider establishing contact with other sites in the vicinity in order to manage these impacts. numbers of vehicle movements and/or generate significant sustained noise levels should

The Council can advise on this if necessary.

13. Consultation



meetings with local residents prior to submission of the first draft CMP. The Council expects meaningful consultation. For large sites, this may mean two or more

including minutes, lists of attendees etc. should be appended comments received in response to the consultation should be included. Details of meetings Evidence of who was consulted, how the consultation was conducted and a summary of the

and, where not appropriate, a reason given. The revised CMP should also include a list of all between boroughs then we would recommend contacting the relevant neighbouring planning consultation with the Council before carrying them out. If your site is on the boundary the comments received. in response to the comments received, the CMP should then be amended where appropriate Developers are advised to check proposed approaches to

groups (e.g. residents/tenants and business associations) and Ward Councillors. Please provide details of consultation of draft CMP with local residents, businesses, local

A consultation letter has been issued to residents and businesses in the area

communication routes with local residents. Consultation will to be undertaken with the occupiers and complaints. Additional notices are displayed at the site entrance with site contact details for further affected by works to limit disturbance and provide communication routes to deal with concerns or James TaylorConstruction through its company procedures initiates consultation with occupants Councillors. Including guidance on Camden website at the hyperlink below: residents of King's Mews (between and Northington Street and Theobalds Road) and Ward

environment/two/planning-applications/making-an-application/supporting http://www.camden.gov.uk/ccm/content/environment/planning-and-builtdocumentation/construction-management-plans.en

are dealt with within a professional and courteous timescale. All feedback from local occupants and further concerns are recorded on site to ensure any complaints

see Appendix C for details of the letter and consultation

14. Construction Working Group

advertised to the local community, and how the community will be updated on the upcoming the way in which the contact details of the person responsible for community liaison will be works i.e. in the form of a newsletter/letter drop, or weekly drop in sessions for residents. Group that will be set up, addressing the concerns of the community affected by the works, Please provide details of community liaison proposals including any Construction Working



Community liaison will be formed by the following:

once CMP consultation has been undertaken It is not yet clear if a construction working group needs to be formed. This will become apparent

If it is required, community liaison will be formed by the following:

- Neighbourhood consultation letter including site contact details
- Establish meeting with local residents to consult on construction work and agree noisy works
- Monitor works and establish log book for complaints and incidents to remediate

15. Schemes

any other similar relevant schemes as appropriate. Contractors will also be required to follow the "Guide for Contractors Working in Camden" also referred to as "Camden's Considerate Please provide details of your 'Considerate Constructors Scheme' registration, and details of Contractors Manual"

https://www.ccscheme.org.uk/ James Taylor will register the site with the Considerate Contractors Scheme referring to the CCS website

construction heavy goods vehicles that are significant in impact to road safety. James Taylor Construction do not own or operate control over any fleet of vehicles that are

through training and induction to the site traffic management plan. James Taylor Construction raise awareness of road safety issues for contractors and employees

be done for the benefit of the operations undertaken. further measures that can be introduced for the site traffic management from CLOCS standards will compliant with FORS, Van Excellence or other FORS-equivalent standards on appointment. Any James Taylor Construction will request sub-contractor goods vehicle operators confirm they are

Working in Camden" also referred to as "Camden's Considerate Contractors Manual" In addition contractors and sub-contractors will also be required to follow the "Guide for Contractors

16. Neighbouring sites

Please provide a plan of existing or anticipated construction sites in the local area and of construction in the vicinity of the site. The council can advise on this if necessary please state how your CMP takes into consideration and mitigates the cumulative impacts



similar scope in construction refurbishment and impact to immediate neighbouring properties. Currently there is one other refurbishment project underway on John St and one on Kings Mews of

about to commence construction on the section of King's Mews between Northington Street and Sanessie in the Infrastructure and Growth Team for further details. Theobalds Road. It is noted that contractors will be required to work together to minimise the cumulative impacts of 2 or more developments being constructed concurrently. Contact is Shahida As advised by Camden that there are various approved developments currently under construction or

Transport

appointed. yet assigned, please leave the relevant sections blank until such time when one has been This section must be completed in conjunction with your principal contractor. If one is not

within the borough are bound by the conditions laid out in the CLOCS Standard. motorised road traffic. As such, all vehicles and their drivers servicing construction sites Road Users (VRUs) as well as minimising negative environmental impacts created by Camden is a CLOCS Champion, and is committed to maximising road safety for Vulnerable

to ensure that your principal contractor is fully compliant with the terms laid out in the site, including your road safety obligations with regard to VRU safety. It is your responsibility and sub-contractors attending site are compliant with the terms laid out in the CLOCS CLOCS Standard. It is your principal contractor's responsibility to ensure that all contractors This section requires details of the way in which you intend to manage traffic servicing your

Checks of the proposed measures will be carried out by the council to ensure compliance. available here details CLOCS requirements can be accessed here, details of the monitoring process are Please refer to the CLOCS Standard when completing this section. Guidance material which

Please contact CLOCS@camden.gov.uk for further advice or guidance on any aspect of this

above which give a breakdown of requirements. Please refer to the CLOCS Overview and Monitoring Overview documents referenced



CLOCS Contractual Considerations

17. Name of Principal contractor:

Dropbox Ltd.

to our CLOCS Overview document and Q18 example response). compliance with the CLOCS Standard throughout the duration of the contract (please refer 18. Please submit the proposed method for checking operational, vehicle and driver

cumulative impacts of construction (including construction sites) on the public highway network. should be communicated to all contractors and subcontractors servicing the site and not deviated be considered. Consideration should alcs be given to weight restrictions, low bridges and need to avoid where possible any major cycle routes and trip generators such as schools, offices, from unless avoidable The route(s) to and from site should be suitable for the size of vehicles that are to be used. This those that attract high volumes of cycle traffic) installing Trixi mirrors to aid driver visibility should public buildings, museums etc. Where appropopriate, on routes that use high risk junctions (ie Traffic Routing. Routes should be carefully considered and risk assessed, taking into account the

interest online. the CLOCS Community to receive up to date information on the standard by expressing an and understood the CLOCS Standard and included it in your contracts. Please sign-up to join 19. Please confirm that you as the client/developer and your principal contractor have read

to my contractors and suppliers: I confirm that I have included the requirement to abide by the CLOCS Standard in my contracts

Dropbox Ltd confirm the above

section. Please contact CLOCS@camden.gov.uk for further advice or guidance on any aspect of this



STOTO

CLOCS Standard should be read in conjunction with this section. Sections below shown in blue directly reference the CLOCS Standard requirements. The

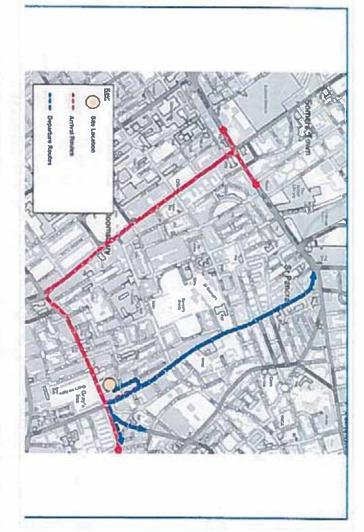
all times unless unavoidable diversions occur." (P19, 3.4.5) make contractors and any other service suppliers aware that they are to use these routes at is specified and that the route is communicated to all contractors and drivers. Clients shall 20. Traffic routing: "Clients shall ensure that a suitable, risk assessed vehicle route to the site

be considered. that attract high volumes of cycling traffic) installing Trixi mirrors to aid driver visibility should buildings, museums etc. Where appropriate, on routes that use high risk junctions (i.e. those where possible any major cycle routes and trip generators such as schools, offices, public Routes should be carefully considered and risk assessed, taking into account the need to avoid

The route(s) to and from the site should be suitable for the size of vehicles that are to be used of construction (including neighbouring construction sites) on the public highway network Consideration should also be given to weight restrictions, low bridges and cumulative impacts

London Road Network (TLRN) on approach and departure from the site the vicinity of the site including details of how vehicles will be routed to the Transport for a. Please indicate routes on a drawing or diagram showing the public highway network in





journeys the route (to and from the site) and of any on-site restrictions, prior to undertaking Please confirm how contractors, delivery companies and visitors will be made aware of

access the site off Kings Mews Northington Street to allow for access to the rear of the building via Kings Mews, where they will The intended preferred route for all construction vehicles accessing and egressing King's Mews is via

plan and control vehicles and reduce peak hour deliveries" (P20, 3.4.6) 21. Control of site traffic, particularly at peak hours: "Clients shall consider other options to

Contractors Working in Camden). to between 9.30am and 3pm on weekdays during term time. (Refer to the Guide for of the site or on the proposed access and/or egress routes, then deliveries must be restricted weekdays and between 8.00am and 1.00pm on Saturdays). If there is a school in the vicinity Construction vehicle movements are generally acceptable between 9.30am to 4.30pm on

should be placed upon the driver at any time with high volumes of traffic. Vehicles must not wait or circulate on the public highway. Whilst time. Instructions explaining such a plan should be sent to all suppliers and contractors. deliveries should be given set times to arrive, dwell and depart, no undue time pressures Consideration should be given to the location of any necessary holding areas for large sites A delivery plan should ensure that deliveries arrive at the correct part of site at the correct



times may require vehicle holding procedures. should estimate the average daily number of vehicles during each major phase of the work, and times of day when they will need access to the site, for each phase of construction. You a. Please provide details of the typical sizes of all vehicles and the approximate frequency including their dwell time at the site. High numbers of vehicles per day and/or long dwell

HGV 3-Axle Vehicles	Bigger 2-Axle Vehicles	Small 2-Axle Vehicles	Walland Time
20 ton / 12.5m L	3.5 ton / 10m L	3.5 ton / 6m L	Cross Weight / Size
Concrete delivery plant. One drop off One pick up only. One hour dwell time. Mobile crane	Waste removal on weight and load. Demolition – 4 daily over two weeks. One hour dwell time.	Lightweight for general use, deliveries/ materials removal of equipment. Trades delivery of equipment. Averaging 2 daily throughout works. 15 minutes dwell time only.	

Construction vehicle movements will be scheduled to avoid peak periods.

b. Please provide details of other developments in the local area or on the route

Theobalds Road commence construction on the section of King's Mews between Northington Street and Currently there are various approved developments currently under construction or about to

c. Please outline the system that is to be used to ensure that the correct vehicle attends the correct part of site at the correct time.

access the site off Kings Mews. Northington Street to allow for access to the rear of the building via Kings Mews, where they will The intended preferred route for all construction vehicles accessing and egressing King's Mews is via

All vehicles approaching the building will phone in advance to notify the site managers who will operate as Banksmen and Marshall Traffic.

arrangements on at initial procurement stages. All contractors, suppliers and delivery vehicles are informed of the site access and delivery



to site in light of time required for any vehicle/driver compliance checks. Please refer to d. Please identify the locations of any off-site holding areas (an appropriate location outside the borough may need to be identified, particularly if a large number of delivery vehicles are question 24 if any parking bay suspensions will be required for the holding area. expected) and any measures that will be taken to ensure the prompt admission of vehicles

There is no requirement for parking bay suspensions or temporary traffic management orders under Adequate site access is provided directly into site loading area via Kings Mews at the rear of site

traffic (such as the use of construction material consolidation centres). e. Please provide details of any other measures designed to reduce the impact of associated

Access to the site for all vehicles will be via Northington Street from the north

the public highway network. Due to the frequency of vehicles and sizes we see no overt disruption to the local area or impact on

appropriately managed, clearly marked, understood and clear of obstacles." (P18, 3.4.3) 22. Site access and egress: "Clients shall ensure that access to and egress from the site is

entering and leaving site, particularly if reversing. traffic on the public highway, in particular pedestrians and cyclists, when vehicles are clearly marked and free from obstacles. Traffic marshals must ensure the safe passage of all Vehicles entering and leaving the site should be carefully managed, using gates that are

highway is required. Marshals should have radio contact with one another where necessary. equipped with 'STOP - WORKS' signs (\underline{not} STOP/GO signs) if control of traffic on the public qualifications required for directing large vehicles when reversing. Marshals should be Traffic marshals, or site staff acting as traffic marshals, should hold the relevant

a. Please detail the proposed access and egress routes to and from the site



banksmen. They will be responsible for the coordination and control of all aspects of material deliveries and movement accessing/egressing the site will be monitored and controlled by the site manager and qualified required to give a notice period of 48 hours prior to arrival/departure. All vehicular movement The access/egress for construction vehicles on site will be from Kings Mews and all parties will be

immediate surrounding site zone. that no parking facilities are available on site and that parking restrictions are in place in the Under the Considerate Constructers Scheme prior notice to visitors will be given issuing instruction

managed b. Please describe how the access and egress arrangements for construction vehicles will be

movements to ensure cyclist and pedestrian safety. surrounding site zone. Banksmen and/or traffic marshals will be employed as required during traffic no parking facilities are available on site and that parking restrictions are in place in the immediate Under the Considerate Constructers Scheme prior notice to visitors will be given issuing instruction that

the site including proposed access and egress arrangements at the site boundary (if c. Please provide swept path drawings for any tight manoeuvres on vehicle routes to and from

Appendix A contains swept path drawings

provide details of how this will be managed and any run-off controlled d. Provision of wheel washing facilities should be considered if necessary. If so, please



required to give a notice period of 48 hours prior to arrival/departure. All vehicular movement deliveries and movement. banksmen. They will be responsible for the coordination and control of all aspects of material accessing/egressing the site will be monitored and controlled by the site manager and qualified The access/egress for construction vehicles on site will be from Kings Mews and all parties will be

Under the Considerate Constructers Scheme prior notice to visitors will be given issuing instruction immediate surrounding site zone. that no parking facilities are available on site and that parking restrictions are in place in the

b. Please describe how the access and egress arrangements for construction vehicles will be

surrounding site zone. Banksmen and/or traffic marshals will be employed as required during traffic no parking facilities are available on site and that parking restrictions are in place in the immediate Under the Considerate Constructers Scheme prior notice to visitors will be given issuing instruction that movements to ensure cyclist and pedestrian safety.

necessary). the site including proposed access and egress arrangements at the site boundary (if Please provide swept path drawings for any tight manoeuvres on vehicle routes to and from

d. Provision of wheel washing facilities should be considered if necessary. If so, please provide details of how this will be managed and any run-off controlled.

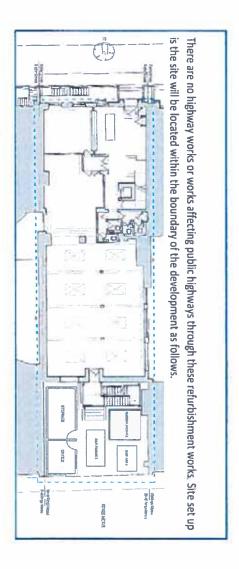


wheel washing facilities on site compound exit. These are to be used on any vehicle that visits or leave dispersing onto the street. hoarding at site entrance and enclosed party walls at site will also reduce the amount of dust/debris planning concerns. Where necessary road sweepers will control excess debris. A facilities are to discharge into the existing mains sewer via the drainage in Kings Mews subject to any site in order to minimalize the debris in Kings Mews and the surrounding roads. Wheel washing To reduce dust and dirt on the public highway to a minimum we will allow for regular cleaning and

on-site as far as is practicable." (P19, 3.4.4) 23. Vehicle loading and unloading: "Clients shall ensure that vehicles are loaded and unloaded

and motor traffic in the street when vehicles are being loaded or unloaded. If this is not possible, Traffic Marshalls must ensure the safe passage of pedestrians, cyclists

due to take place and outline the measures you will take to ensure that loading/unloading is plant, removal of excavated material). This is required as a scaled site plan, showing all with regard to servicing and deliveries associated with the site (e.g. delivery of materials and carried out safely. Please outline in question 24 if any parking bay suspensions will be access and egress the site. If loading is to take place off site, please identify where this is points of access and where materials, skips and plant will be stored, and how vehicles will Please provide details of the parking and loading arrangements for construction vehicles





Highway interventions

Please note that Temporary Traffic Orders (TTOs) and hoarding/scaffolding licenses may be applied for prior to CMP submission but won't be granted until the CMP is signed-off.

If the site is on or adjacent to the TLRN, please provide details of preliminary discussions with Transport for London in the relevant sections below.

24. Parking bay suspensions and temporary traffic orders

exclusive access to a bay for longer than 6 months you will be required to obtain Temporary Traffic Order (TTO) for which there is a separate cost. Parking bay suspensions are permitted for a maximum of 6 months, requirement of Please note, parking bay suspensions should only be requested where absolutely necessary.

obstructions on the highway as per your Considerate Contractors obligations unless the required to facilitate construction. Building materials and equipment must not cause Please provide details of any proposed parking bay suspensions and TTO's which would be requisite permissions are secured.

Information regarding parking suspensions can be found here.

Not Applicable

25. Scaled drawings of highway works

diversion route showing key dimensions. footways but if this is unavoidable, you should submit a scaled plan of the proposed suspensions and remaining road width for vehicle movements. We prefer not to close highway that includes the extent of any hoarding, pedestrian routes, parking bay on-site. You must submit a detailed (to-scale) plan showing the impact on the public such use you must supply full justification, setting out why it is impossible to allocate space facilities is at the discretion of the Council and is generally not permitted. If you propose Please note that use of the public highway for storage, site accommodation or welfare

0 a. Please provide accurate scaled drawings of any highway works necessary to enable construction to take place (e.g. construction of temporary vehicular accesses).



Not applicable

ramps and lighting etc. b. Please provide details of all safety signage, barriers and accessibility measures such as

durability and lighting where this affects public highway. occupy the public highway but will conform to Camden hoarding specification for robustness, Hoarding for the works will be established at the boundary onto Kings Mews. The hoarding will not

26. Diversions

of the public highway during the construction period (alternatively a plan may be submitted). Where applicable, please supply details of any diversion, disruption or other anticipated use

Not applicable

27. VRU and pedestrian diversions, scaffolding and hoarding

partially sighted. Appropriate ramping must be used if cables, hoses, etc. are run across the elderly, those with walking difficulties, young children, those with prams, the blind and footway. Vulnerable footway users should also be considered. These include wheelchair users, the Pedestrians and/or cyclist safety must be maintained if diversions are put in place.

structures/skips/hoardings etc. licence must be obtained for scaffolding and gantries. The adjoining public highway must be kept clean and free from obstructions. Lighting and signage should be used on temporary Any work above ground floor level may require a covered walkway adjacent to the site. A

A secure hoarding will generally be required at the site boundary with a lockable access.



a. Please provide details describing how pedestrian and cyclist safety will be maintained, arrangements. including any proposed alternative routes (if necessary), and any Traffic Marshall

Not Applicable

other occupation of the public highway. highway (e.g. scaffolding, gantries, cranes etc.) and details of hoarding requirements or any b. Please provide details of any temporary structures which would overhang the public

overhang the public highway at this time of construction planning. There are no requirements for temporary structures including scaffolding, gantries or cranes that will

and applied for immediately to www.camden.gov.uk/buildinglicences highway licensing requirements. In the event such licenses are required this will be consulted with During planning stages the requirement for temporary structures will be reviewed to address any

SYMBOL IS FOR INTERNAL USE



Environment

Requirements for Building Construction (CMRBC). To answer these sections please refer to the relevant sections of Camden's Minimum

the times that each of these are due to be carried out. 28. Please list all noisy operations and the construction method used, and provide details of

commencement. agreed from initial con- sultation with neighbouring properties and occupants prior to This phase of works and following construction works will follow the noisy operations times

Current allowance under Camden working Hours

Monday to Friday only: 08.00 to 18.00

and agree to provide a copy. the date (before any works are being carried out) that the noise survey will be taking place, were carried out) and provide a copy. If a noise survey has not taken place please indicate Please confirm when the most recent noise survey was carried out (before any works

contained in Appendix B The Construction Noise, Vibration and Dust Management Plan by Clement Acoustics is

30. Please provide predictions for noise and vibration levels throughout the proposed

within the building structure. the maximum equipment dB levels of 103dB dependant on acoustics of the building and reinforcement The full list of equipment and methodology of the demolition contractor is provided which indicates

percussion process so will not reverberate around the building. and also the amount of reinforcement within the wall structure but as the drilling this is not a The diamond blade produces around 103dB but again is dependable on the acoustics of the building

from the following works to be undertaken: On similar sites records working to two hour maximum noisy works the predicted impact would be

Site preparation works - 60-90 dB



activities on the site, including the actions to be taken in cases where these exceed the construction/<u>demolition</u> works to prevent noise and vibration disturbances from the 31. Please provide details describing mitigation measures to be incorporated during the

conditions to be expected of two hours on and two hours off. Working hours of noisy works to be within LA working hours and agreed noisy times. Minimum

Site noise monitoring records to be kept with register of complaints for reference at all times of

demolition works. Experience from similar sites has shown that by implementing the following measures will serve to reduce noise and vibration levels to the most practical levels considering the deconstruction and

- Phasing the works to maximise the benefit from perimeter structures;
- Any compressors brought on to site to be silenced or sound reduced models fitted with
- All pneumatic tools should to be fitted with silencers or mufflers;
- Deliveries should programme to arrive during daytime hoursonly.
- vehicles to be prohibited from waiting at site with their engines running; Care to be taken when unloading vehicles to minimise disturbance to local residents. Delivery
- so that the noise impact at nearby noise-sensitive properties is minimised; recommendations in such a manner as to avoid causing excessive noise. All plant to be sited All plant items to be properly maintained and operated according the manufacturers'
- Hoarding, screens or barriers to be erected as necessary to shield particularly noisy activities;
- and neighbourly approach to relations with local residents. Works should not be undertaken outside of the hours agreed with the local authority. Problems concerning noise from construction works to be avoided by taking a considerate

32. Please provide evidence that staff have been trained on BS 5228:2009

Work Regulations 2005 for employee health. on construction and open sites with direct reference to Regulation 8 of the Control of Vibration at All direct staff are trained internally in accordance with BS5228, COP for noise and vibration control

particular attention to (HAV), (WBV), assessment and management of reducing exposure limits. All sub-contractors are to provide evidence of their own training in respect of CoVaWR, with



prevented. 33. Please provide details on how dust nuisance arising from dusty activities, on site, will be

The contractor will use the principles of:
• Prevention

- Suppression

• Containment

• Cont

Effective preventative maintenance will be employed on all aspects of construction/demolition works including all plant, vehicles, buildings and the

rectify breakdowns rapidly. equipment concerned with the control of emissions to air

The contractor will ensure that they maintain management, supervision and training for process operations; proper use of effective preventative maintenance on all plant and equipment concerned with the control of emissions to the air; and spares and consumables will be kept at hand in order to

spread onto the public highway will be prevented and/or cleaned 34. Please provide details describing how any significant amounts of dirt or dust that may be

dispersing onto the street. hoarding at site entrance and enclosed party walls at site will also reduce the amount of dust/debris planning concerns. Where necessary road sweepers will control excess debris. A 2.4metre site facilities are to discharge into the existing mains sewer via the drainage in Kings Mews subject to any site in order to minimalize the debris in Kings Mews and the surrounding roads. Wheel washing wheel washing facilities on site compound exit. These are to be used on any vehicle that visits or leave To reduce dust and dirt on the public highway to a minimum we will allow for regular cleaning and

dust levels 35. Please provide details describing arrangements for monitoring of noise, vibration and

register of complaints for reference at all times of works conditions to be expected of two hours on and two hours off. Site noise records to be kept with Working hours of noisy works to be within LA working hours and agreed noisy times. Minimum

confirmed noisy hour working with LA and party wall surveyor's requirements. party wall and site boundary. Site manager recording are for noisy works only and during the Site dB apps are used as part of internal site management systems including distance from operation,

mitigation measures. All incidents recorded within the site incident logbook at the site office against site records with any exceedances fully investigated to further improve on noise and vibration Internal fit out within an enclosed working environment. All complaints will automatically be reviewed During working hours under planning conditions noise monitoring will reduce as works progress to



appropriate measures within the GLA mitigation measures checklist have been applied 36. Please confirm that a Risk Assessment has been undertaken at planning application stage in line with the GLA policy. The Control of Dust and Emissions During Demolition and Please attach the risk assessment and mitigation checklist as an appendix. Construction 2104 (SPG), that the risk level that has been identified, and that the

assessment has been made. Under the GLA BPG on "control of dust emissions from construction and demolition" the following

	Low Risk		Assessment Site Score
Weather Conditions Site vehicles			
material Prolonged period of works 1	Residents Local		859.1 sqM
Removal of debris / waste Storage of	Kings Mews	One residential unit.	
	Receptors		
	Sensitive		
Construction Impact	Potential	Number of Properties	Size of Site

completing the GLA mitigation measures checklist. document relative to the level of risk identified in question 36 have been addressed by 37. Please confirm that all of the GLA's 'highly recommended' measures from the SPG

It is confirmed that all of the GLA's 'highly recommended' measures from the SPG addressed by completing the GLA mitigation measures checklist. document relative to the level of risk identified in question 36 (low Risk) have been

0 38. If the site is a 'High Risk Site', 4 real time dust monitors will be required. If the site is a and that real time data and quarterly reports will be provided to the Council detailing any SPG and confirm that these will be installed 3 months prior to the commencement of works, SPG. Please confirm the location, number and specification of the monitors in line with the account of proximity to sensitive receptors (e.g. schools, care homes etc), as detailed in the exceedances of the threshold and measures that were implemented to address these 'Medium Risk Site', 2 real time dust monitors will be required. The risk assessment must take



Not applicable to these works.

carried out and present copies of receipts (if work undertaken). spreading out from the site. You are required to provide information about site inspections 39. Please provide details about how rodents, including rats, will be prevented from

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findings. 40. Please confirm when an asbestos survey was carried out at the site and include the key

instruction. No asbestos is present on the site if found asbestos to be removed by licensed contractors under Client

and unnecessary shouting. being taken to minimise this e.g. provision of a suitable smoking area, tackling bad language 41. Complaints often arise from the conduct of builders in an area. Please confirm steps

project management plan taken for breaching the site rules. A designated smoking area will be provided as part of the tolerance will be applied to bad language, shouting and unsuitable behaviour. Action will be of works which will be monitored and reviewed during the construction process. Zero Site inductions and tool box talks will be given to all personnel prior to the commencement

emissions applicable to both variable and constant speed engines and apply for both PM and NOx 37kW and 560kW it will be required to meet the standards set out below. The standards are 42. If you will be using non-road mobile machinery (NRMM) on site with net power between

From 1st September 2015

required to meet Stage IIIA of EU Directive 97/68/EC Major Development Sites – NRMM used on the site of any major development will be



within the Central Activity Zone will be required to meet Stage IIIB of EU Directive (ii) Any development site within the Central Activity Zone - NRMM used on any site

From 1st September 2020

(iii) Any development site - NRMM used on any site within Greater London will be required to meet Stage IIIB of EU Directive 97/68/EC

within the Central Activity Zone will be required to meet Stage IV of EU Directive 97/68/EC (iv) Any development site within the Central Activity Zone - NRMM used on any site

the following questions: Please provide evidence demonstrating the above requirements will be met by answering

- a) Construction time period (mm/yy mm/yy):
- b) Is the development within the CAZ? (Y/N):
- Will the NRMM with net power between 37kW and 560kW meet the standards outlined above? (Y/N):
- d) Please provide evidence to demonstrate that all relevant machinery will be registered on the NRMM Register, including the site name under which it has been registered:
- e) Please confirm that an inventory of all NRMM will be kept on site and that all machinery will be regularly serviced and service logs kept on site for inspection:
- Ť) this documentation will be made available to local authority officers as required: including legible photographs of individual engine plates for all equipment, and that Please confirm that records will be kept on site which details proof of emission limits,

SYMBOL IS FOR INTERNAL USE



Agreement

complied with thereafter. of the development. Any future revised plan must be approved by the Council in writing and to review this Construction Management Plan if problems arise in relation to the construction Developer and reapproved by the Council. The project manager shall work with the Council otherwise agreed in writing by the Council. This may require the CMP to be revised by the The agreed contents of this Construction Management Plan must be complied with unless

agreements that may be required such as road closures or hoarding licences. It should be noted that any agreed Construction Management Plan does not prejudice further

council when works are approximately 3 months from completion. Please notify that council when you intend to start work on site. Please also notify the

Signed: PSM

Date: .. 17.11.17

Print Name: MARTIN SHOTTON

Position: DPERATIONS DIRECTOR

Please submit to: planningobligations@camden.gov.uk

End of form



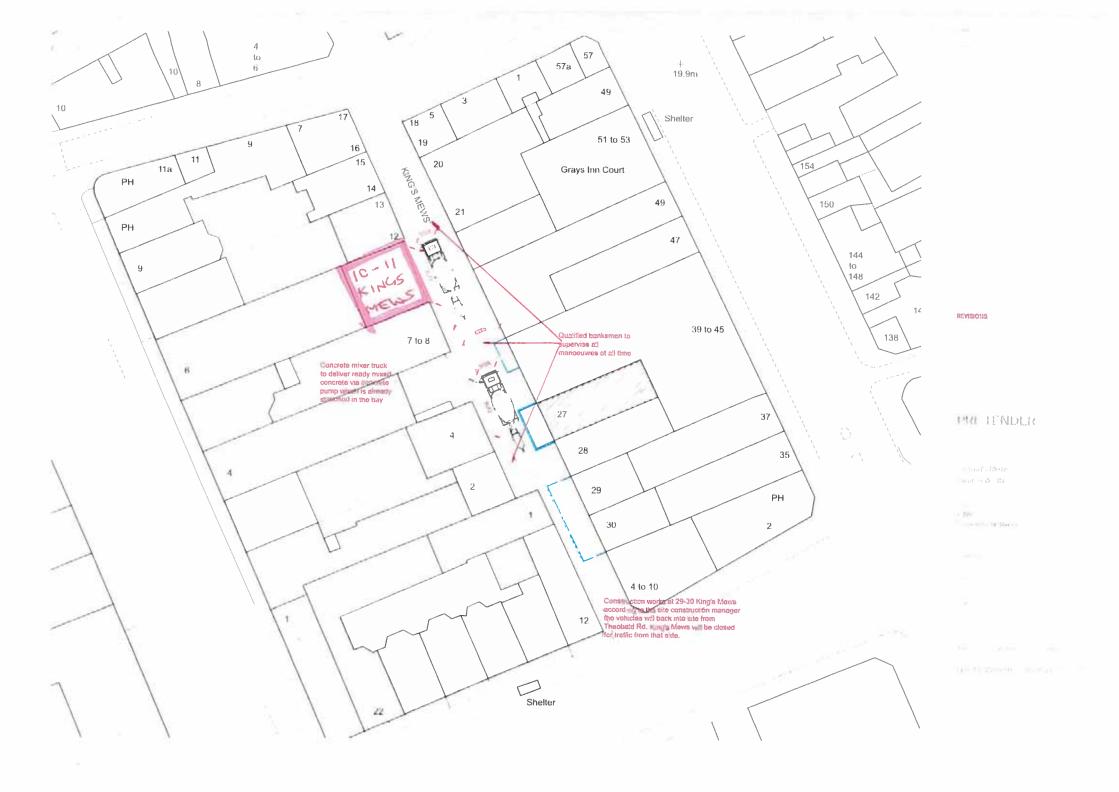
Appendix A

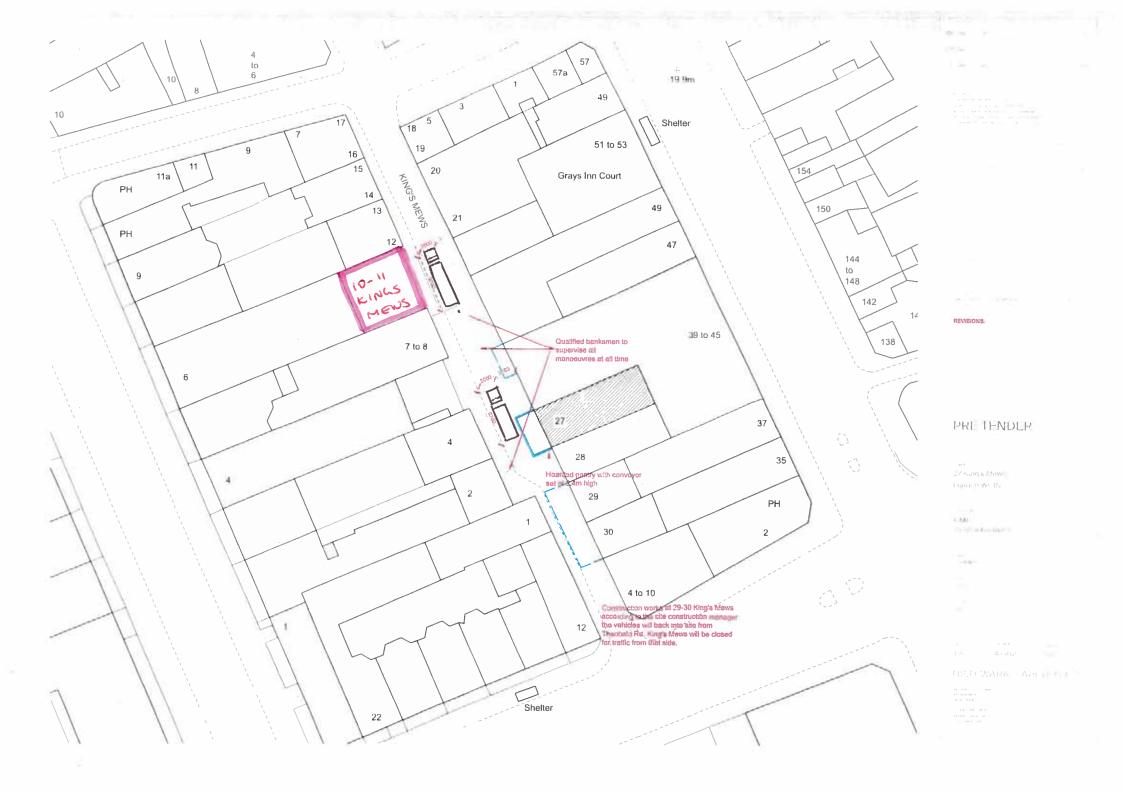
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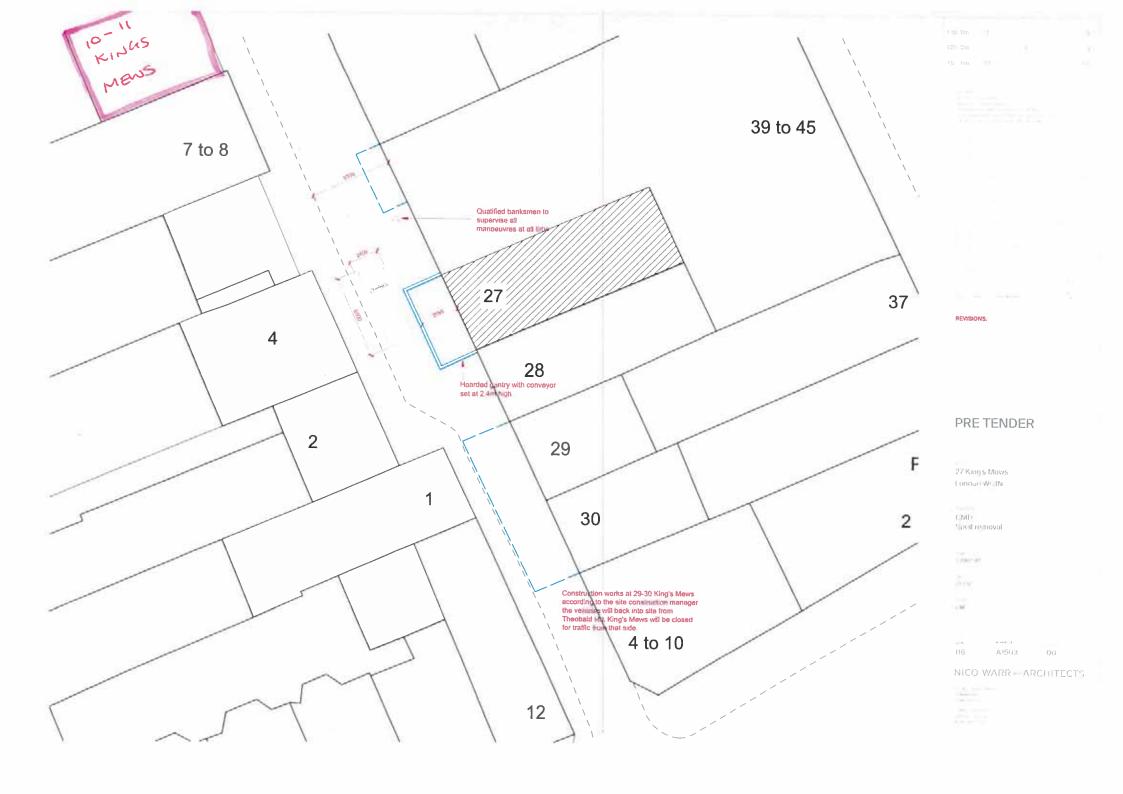
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- CTMP_101 Concrete Delivery
- CTMP_102 Scaffold Delivery
- CTMP_103 Spoil Removal
- CTMP_104 Concrete Truck Swept Path
- CTMP_105 Lorry Swept Path
- CTMP_106 Arriving Vehicles
- CTMP_107 Departing Vehicles



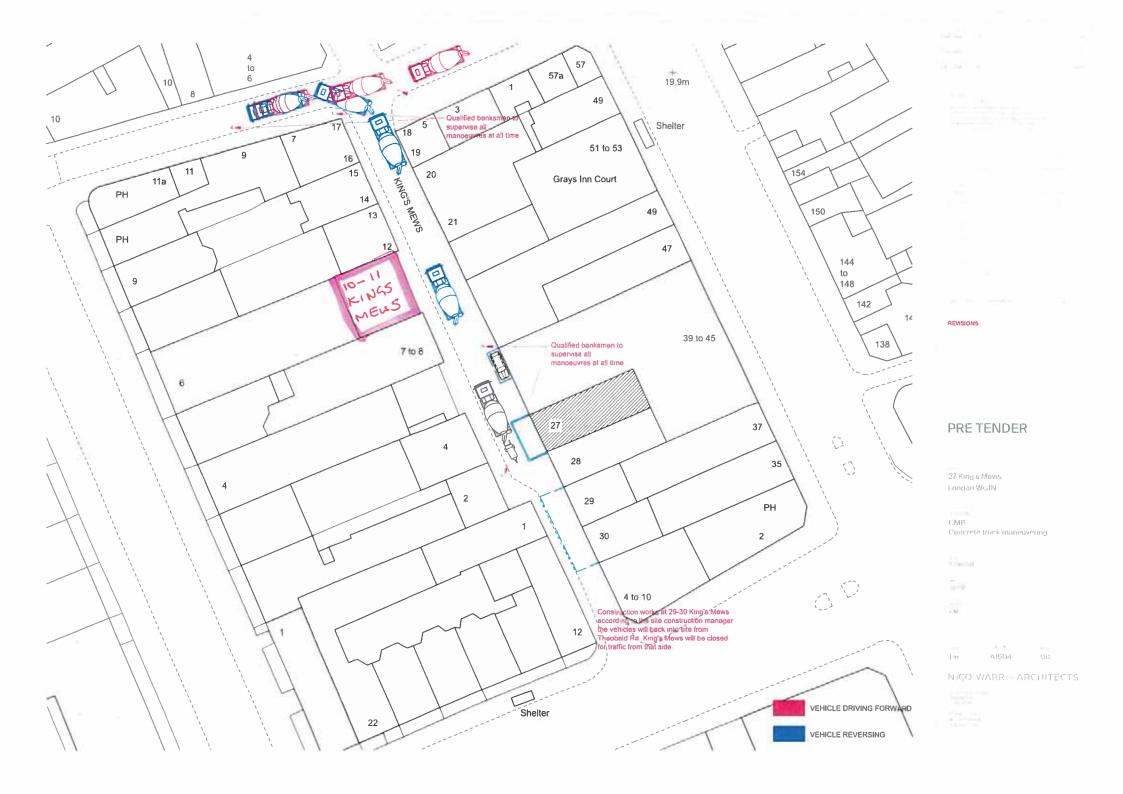


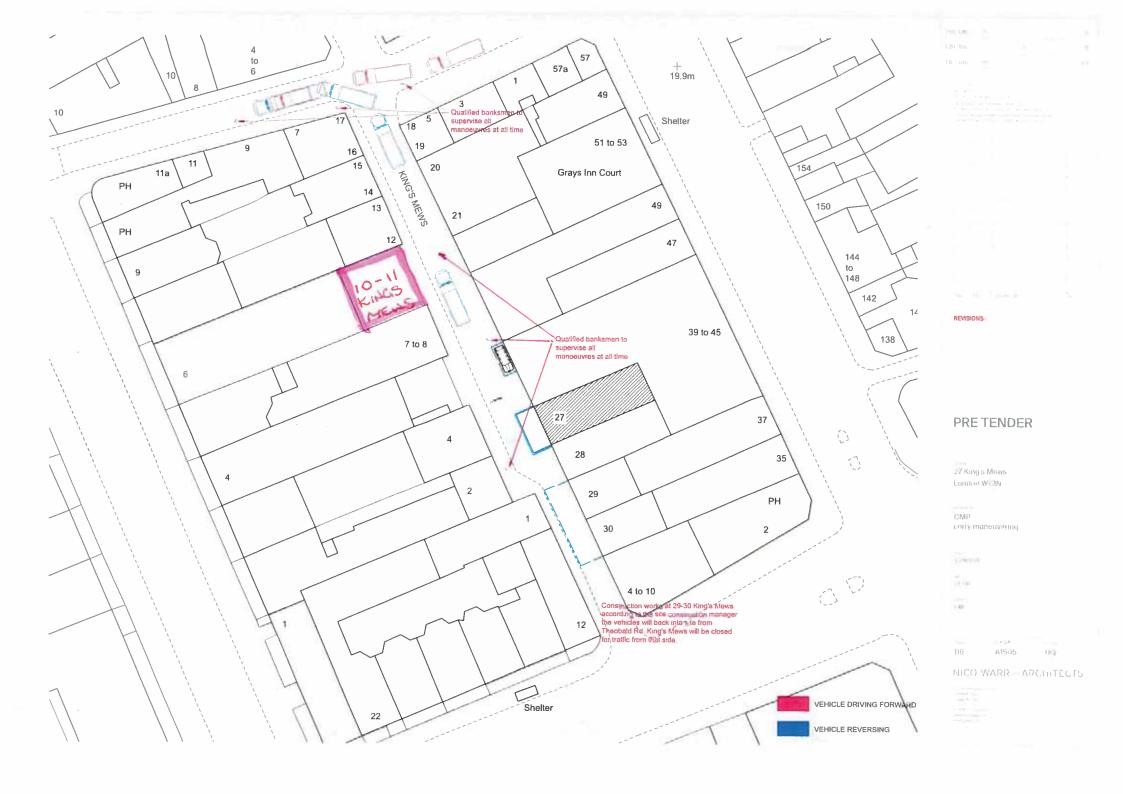


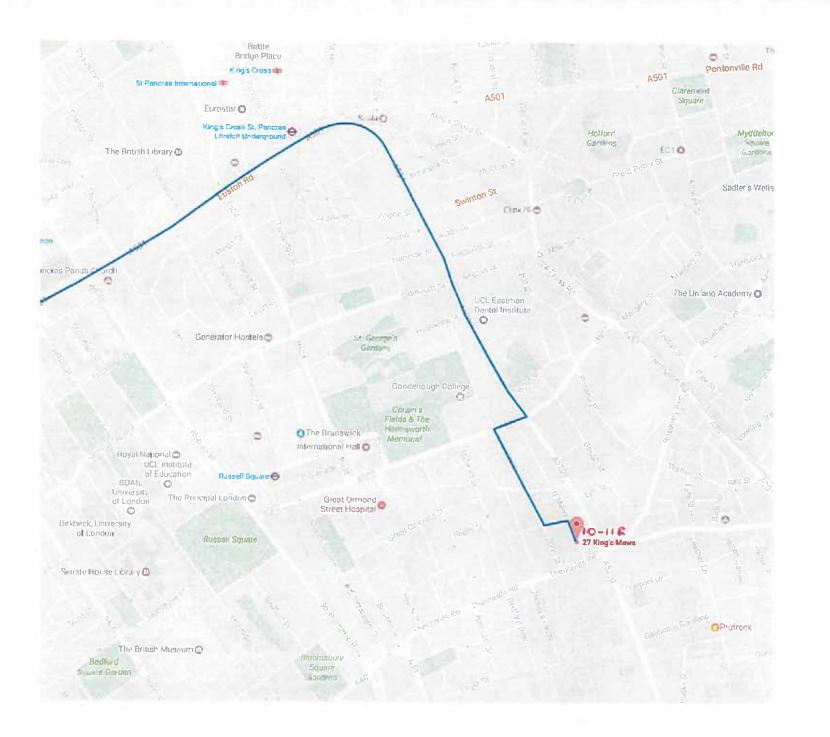












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PRE TENDER

27 King Mews London WUIN

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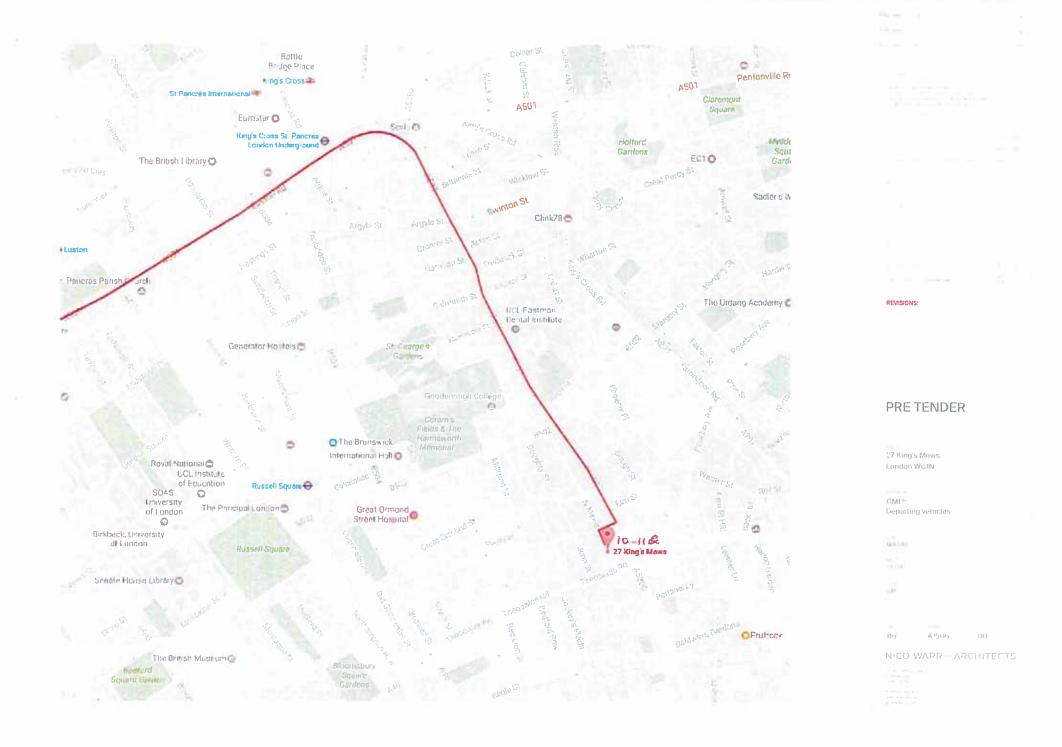
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MENT IN THE



Appendix B

ncludes

Acoustic Report





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info@clementacoustics.co.uk

10-11 KINGS MEWS, LONDON

Construction Noise, Vibration and Dust Management Plan

12764-CNMP-01

7 September 2017

issued For:

Drop Box Basements
56 Great Western Studios
65 Alfred Road
London
W2 5EU









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12764-SP1 Indicative Site Plan
12764-TH1 Environmental Noise Time History
12764-VIB1 Environmental Vibration Time History
12764-CNS1 Construction Noise Schedule
Appendix A Glossary of Acoustic Terminology



1.0 INTRODUCTION

10-11 Kings Mews, London. The property falls within the London Borough of Camden. construction impact assessment for the proposed development of the residential dwelling at Clement Acoustics Ltd has been instructed by Drop Box Basements ō produce

proposed works at nearby sensitive receivers and provides an action and management plan dwelling with a basement. This document aims to assess the impacts arising from the to mitigate any identified impact. The works site is relatively small and includes construction works to form a residential

2.0 SITE LOCATION

bound by residential properties on John Street to the West, and residential properties on Kings Mews to the North, East and South The site address is a currently a plot of land that will form a terrace mews property. It is

attached indicative site plan, 12764-SP1 The most affected noise and vibration sensitive premises have been identified in the

3.0 ENVIRONMENTAL NOISE AND VIBRATION SURVEY

3.1 Procedure

automated unmanned survey was undertaken at a nearby property on Kings Mews. This measurements were also taken at rear of the site. survey location obtained noise and vibration levels from the King's Mews Road. Manual Measurements were undertaken as shown on indicative site drawing 12764-SP1.

and manned survey, therefore suitable for the measurement of environmental noise Weather conditions were generally dry with periods of light winds for both the automated

measurement of environmental noise, Part 2- Acquisition of data pertinent to land use measurement procedure generally complied with BS7445:1991, Description



3.2 Automated Unmanned Environmental Noise Survey

at ground floor level. above ground level and approximately 1 m from the façade. A façade correction was applied. An Accelerometer was also installed to a party wall at 26 Kings mews via adhesive. This was The microphone was installed on the front façade of 26 Kings Mews approximately 3m

12 January 2017 and 17 January 2017. Continuous automated monitoring was undertaken for the duration of the survey between

construction noise during installation and collection of equipment. Background noise levels at the monitoring positions consisted of road traffic noise as well as

3.3 Manual Measurements

indicative site plan 12764-SP1 in order verify the existing survey. Manual measurements were undertaken at 10-11 Kings Mews in the location shown on

ground level. Measurements were taken in a free field position with the closest façade being greater than m away. The sound level meter was mounted on a tri-pod approximately 1.5 m above

survey. The noise levels were mostly dominated by construction noise during the course of the

3.4 Equipment

The equipment calibration was verified before and after use and no abnormalities were

The equipment used was as follows.

- 1 No. 01dB Solo Class 1 Sound Level Meter
- 1 No. Svantek Type 958 Class 1 Sound Level Meter
- Norsonic Type 1251 Class 1 Calibrator
- Cirrus CRL 511E Class 1 Calibrator



4.0 EXISTING AMBIENT NOISE AND VIBRATION LEVELS

ambient and background noise levels summarised in Table 3.1. The measured noise levels are shown as a time history in time history 12764-TH1-3, with

	Average ambient noise level L _{Aea T} dB(A)	Minimum background noise level
	Unmanned Measurement (Position 1)	ement (Position 1)
Daytime (07:00 - 23:00)	64dB(A)	44dB(A)
Night-time (23:00 - 07:00)	53dB(A)	41dB(A)
Operating Hours (08:00 – 18:00)	66dB(A)	46dB(A)
	Manual Me	Manual Measurement
Measurement Period (16:00 – 16:15)	58dB(A)	47dB(A)
T-Li- A 4 D III- A Li A II I		

Table 4.1: Baseline Ambient Noise Levels

measured vibration was typically below 0.5mm/s PPV during the course of the survey. The measured vibration levels are shown in vibration time history 12764-VIB1. The

5.0 ACTIVITIES ASSESSED

It is understood that the following activities and equipment, in Table 5.1, assessed with regards to noise impact to nearby sensitive premises. will need to be

Activity		Front Works	Site Prepatation and enabling works Makita Combi Drill	Underpinning/bulk excavation 1.5T Excavator	alls Heavy duty breaker			Underpinning 9" angle grinder	Ť		pours Concrete mixer with pump	C	Dulk excavation Grad Corry 171	9" angle grinder	9" angle grinder Rear Works	9" angle grinder Rear Works Makita Combi Drill	9" angle grinder Rear Works Makita Combi Drill Heavy duty breaker	9" angle grinder Rear Works Makita Combi Drill Heavy duty breaker 1,5T Excavator	9" angle grinder Rear Works Makita Combi Drill Heavy duty breaker 1,5T Excavator Conveyor drive unit	9" angle grinder Rear Works Makita Combi Drill Heavy duty breaker 1,5T Excavator Conveyor drive unit Medium duty beaker	9" angle grinder Rear Works Makita Combi Drill Heavy duty breaker 1,5† Excavator Conveyor drive unit Medium duty beaker 9" angle grinder	9" angle grinder Rear Works Makita Combi Drill Heavy duty breaker 1,5† Excavator Conveyor drive unit Medium duty beaker 9" angle grinder Makita Combi Drill
Pe	From		04/09/2017	18/09/2017	19/09/2017	27/09/2017	29/09/2017	18/09/2017	18/09/2017	18/09/2017	+0/00/10+	19/02/2018	19/02/2018	19/02/2018 19/02/10/2017 02/10/2017 26/02/2018	19/02/2018 02/10/2017 26/02/2018	19/02/2018 02/10/2017 26/02/2018 04/09/2017	19/02/2018 02/10/2017 26/02/2018 04/09/2017 19/09/2017	19/02/2018 02/10/2017 26/02/2018 04/09/2017 19/09/2017 18/09/2017	19/02/2018 02/10/2017 26/02/2018 04/09/2017 19/09/2017 18/09/2017 18/09/2017	19/02/2018 02/10/2017 25/02/2018 04/09/2017 19/09/2017 19/09/2017 18/09/2017 18/09/2017 29/09/2017	19/02/2018 19/02/2018 02/10/2017 26/02/2018 04/09/2017 19/09/2017 18/09/2017 18/09/2017 18/09/2017 18/09/2017	19/02/2018 19/02/2018 02/10/2017 26/02/2018 04/09/2017 19/09/2017 18/09/2017 18/09/2017 18/09/2017 18/09/2017 18/09/2017
Period	Till		15/09/2017	02/02/2018	28/09/2017	29/09//2017	02/02/2018	02/02/2018	02/02/2018	00/02/2040	8T07/50/60	09/03/2018	09/03/2018	09/03/2018 09/03/2018 02/02/2018 09/03/2018	09/03/2018 09/03/2018 02/02/2018 09/03/2018	09/03/2018 09/03/2018 02/02/2018 09/03/2018 15/09/2017	09/03/2018 09/03/2018 02/02/2018 09/03/2018 15/09/2017 28/09/2017	09/03/2018 09/03/2018 02/02/2018 09/03/2018 15/09/2017 28/09/2017 02/02/2018	09/03/2018 09/03/2018 02/02/2018 09/03/2018 15/09/2017 28/09/2017 02/02/2018 02/02/2018	09/03/2018 09/03/2018 02/02/2018 09/03/2018 15/09/2017 28/09/2017 02/02/2018 02/02/2018	09/03/2018 09/03/2018 02/02/2018 09/03/2018 09/03/2018 15/09/2017 28/09/2017 02/02/2018 02/02/2018 02/02/2018	09/03/2018 09/03/2018 02/02/2018 09/03/2018 09/03/2017 28/09/2017 28/09/2017 02/02/2018 02/02/2018 02/02/2018 02/02/2018 02/03/2018

Table 5.1 Period of Site Activities and equipment



6.0 HOURS OF WORK

they will be audible at the site boundary. Noisy works are not permitted on Sundays or Public Holidays or outside the periods above if Normal permitted hours for noisy work in the Borough are Monday to Friday 08:00 to 18:00.

The duration of works is from March 2017 to June 2017 as indicated in Table 5.1

7.0 NOISE ASSESSMENT CRITERIA

It is proposed that the limiting levels should be set as follows

the Laeq noise level at the building façade should not exceed interference. This publication states that during daytime hours (08:00 hours to 18:00 hours) noise at residential locations during daytime hours based on levels associated with speech 1: Noise references the Department of Environment (DoE) Advisory Leaflet (AL) 72 (1976) BS 5228: 2009 Code of Practice for noise and vibration on Construction and Open Sites – Part Control on Building Sites', gives advice on the maximum levels of construction site

- 75 dBA in urban areas near to main roads in heavy industrial areas; or
- 70 dBA in rural, suburban and urban areas away from main road traffic and industrial

significance of noise impacts associated with demolition and construction activities assessment criterion. It should be noted that this criterion is not proposed as an absolute limit Road and Grays Inn Road, we suggest a value of 75dB L_{Aeq (10hour)} be adopted as an appropriate for construction noise; rather, it should be considered as a level against which to assess the Given the location of the site, within a busy part of London in close proximity to Theobalds

the impact of noise based on the change in noise level as follows Draft 'Guidelines for Noise Impact Assessments', published by the Institute of Acoustics and Institute of Environmental Management and Assessment (IEMA), gives guidance on describing

Negligible: Assessment criterion is exceeded by 0 to 3 dBA;

Minor adverse: Assessment criterion is exceeded by 3 to 5 dBA;

Moderate adverse: Assessment criterion is exceeded by 5 to 10 dBA; and

Substantial adverse: Assessment criterion is exceeded by over 10 dBA



8.0 NOISE IMPACT ASSESSMENT

close proximity to residential receptors. Although this development is not a major project in its footprint and duration, it is located in

8.1 Source Noise Levels

Where possible manufacturer measured noise levels have been used Part1: 2009 Code of practice for noise and vibration on construction and open sites: Noise construction processes have been derived from historic data and levels stated in BS 5228-Source noise levels for the various items of machinery involved in the demolition and

Schedule 12764-CNS1 Assumed levels and percentage on-time are indicated in attached Construction Noise

assessed due to excavation and construction works at the rear of 10-11 Kings Mews London. as a noise sensitive receiver. The residential dwellings at John Street, London have been front of 10-11 Kings Mews, London. In addition to this 25 Kings Mews has also been assessed 7-8 Kings Mews, London has been assessed due to excavation and construction works at the Worst case noise levels have been predicted at the nearest noise sensitive premises.

front or rear site has been used in our calculations. This will likely provide representative LARG Due to the numerous locations of work activities, the 'average' distance from the centre of the (10 hour) noise levels.

attenuation assumed in our calculations is Schedule 12764-CNS1 Further screening has been assumed for certain items of indicated in our attached plant. Details Construction Noise 약 screening



8.2 7-8 Kings Mew, London - Receiver Noise Levels

and are presented in Appendix B. Predicted construction noise levels have been calculated in full accordance with BS5228:2009

to the centre of the site. building site to the residential receiver. The Receiver was noted to be a distance of 8 m away Table 8.1 below. Screening has been taken in to account as there is no line of sight from the Worst case predicted noise levels at the nearest noise sensitive receptors are indicated in

			Desdicted Noice Love	
Activity	Period	iod	LAeq:10hours	
Service Services	Front Facade			
Site Preparation and Enabling Works	04/09/2017	15/09/2017	75 dB	
Underpinning/ Bulk Excavation / Slab Breakout	18/09/2017	28/09/2017	75 dB	
Underpinning / Bulk Excavation / Rubbish Collection	27/09/2017	29/09/2017	74 dB	
Underpinning / bulk excavation	30/09/2017	02/02/2018	72 dB	
Underpinning	02/02/2018	19/02/2018	62 dB	
Underpinning/ Structural concrete pours/ steel installation	19/02/2018	09/03/2018	71 dB	
	Rear Façade			
Site Preparation and Enabling Works	04/09/2017	15/09/2017	75 dB	
Underpinning/ Bulk Excavation / Slab Breakout	18/09/2017	28/09/2017	75 dB	
Underpinning / Bulk Excavation / Rubbish Collection	27/09/2017	29/09/2017	74 dB	
Underpinning / bulk excavation	30/09/2017	02/02/2018	71 dB	
Underpinning	02/02/2018	19/02/2018	64 dB	
Underpinning/ Structural concrete pours/ steel installation	19/02/2018	09/03/2018	70 dB	

Table 8.1: 7-8 Kings Mews, London - Worst Case Receiver Noise Levels

8.3 26 Kings Mew, London - Receiver Noise Levels

Predicted construction noise levels have been calculated in full accordance with BS5228:2009.

Table 8.2 below. The Receiver was noted to be a distance of $14\,\mathrm{m}\,$ to the centre of the site. Worst case predicted noise levels at the nearest noise sensitive receptors are indicated in



Activity	Period	od	Predicted Noise Level LAeq:10hours
The state of the s	Front Facade		
Site Preparation and Enabling Works	04/09/2017	15/09/2017	75 dB
Underpinning/ Bulk Excavation / Slab Breakout	18/09/2017	28/09/2017	72 dB
Underpinning / Bulk Excavation / Rubbish Collection	27/09/2017	29/09/2017	75dB
Underpinning / bulk excavation	30/09/2017	02/02/2018	72dB
Underpinning	02/02/2018	19/02/2018	62 dB
Underpinning/ Structural concrete pours/ steel installation	19/02/2018	09/03/2018	74dB

Table 8.2: 26 Kings Mews, London - Worst Case Receiver Noise Levels

8.4 John Street, London - Receiver Noise Levels

2009. Predicted construction noise levels have been calculated in full accordance with BS 5228:

the site. indicated in Table 8.3 below. The Receiver was noted to be a distance of 20 m to the centre of Predicted noise levels at the noise sensitive receptors to the rear of the development are

Activity	Period	od	Predicted Noise Level LAeq:10hours
	Rear Facade		
Site Preparation and Enabling Works	04/09/2017	15/09/2017	72 dB
Underpinning/ Bulk Excavation / Slab Breakout	18/09/2017	28/09/2017	70 dB
Underpinning / Bulk Excavation / Rubbish Collection	27/09/2017	29/09/2017	71 dB
Underpinning / bulk excavation	30/09/2017	02/02/2018	68 dB
Underpinning	02/02/2018	19/02/2018	61 dB
Underpinning/Structural concrete pours/ steel installation	19/02/2018	09/03/2018	67 dB

Table 8.3: John Street, London - Worst Case Receiver Noise Levels



9.0 **VIBRATION LEVELS**

recommended that vibration levels are monitored during excavation/construction. Vibration levels will significantly diminish with distance and geographical attenuation. It is

Vibration provides criteria for cosmetic damage, as reproduced in Table 8.3 below. BS 5228-Part2: 2009 Code of practice for noise and vibration on construction and open sites:

Line (see Figure B.1)	Type of building	Peak component particle velocity in frequency range of predominant pulse	velocity in frequency
		4 Hz to 15 Hz	15 Hz and above
	Reinforced or framed structures	50 mm/s at 4 Hz and	50 mm/s at 4 Hz and
	Industrial and heavy commercial buildings	above	above
2	Unreinforced or light framed	15 mm/s at 4 Hz	20 mm/s at 15 Hz
	structures	increasing to 20 mm/s	increasing to 50 mm/s
	Residential or light commercial	at 15 Hz	at 40 Hz and above

NOTE 1 Values referred to are at the base of the building

NOTE 2 For line 2, at frequencies below 4 Hz, a maximum displacement of 0.6 mm (zero to peak) is not to be exceeded.

Table 8.3: BS 5228-9: 2009 Cosmetic Damage Limits for Vibration

by up to 50% lower guide values apply, then the guide values [in the above table] might need to be reduced rise to dynamic magnification due to resonance, especially at the lower frequencies where rise buildings. Where the dynamic loading caused by continuous vibration is such as to give to transient vibration which does not give rise to resonant responses in structures, and to low-BS 5228-Part2: 2009 also explains: 'The guide values [in the above table] relate predominately

10.0 MANAGEMENT PLAN

minimise noise impacts. This section aims to highlights the appropriate mitigation measures that will be undertaken to

minimised potential adverse noise impacts relating to demolition and construction activities This will be presented in accordance with best practice documents in order to ensure that any are

10.1 **Control of Noise at Source**

nearby noise sensitive receivers Controlling noise at source is by far the most effective means of minimising any impact on



shall be selected. emission levels. Where there are multiple options for the same operations, the quieter unit Plant and machinery to be used on site must be selected carefully in order to minimise noise

used due to the nature of the site location relative to nearby noise sensitive receivers. Any manufacturer recommended noise and vibration attenuation measures should also be

on site and switched off when not in use so as to minimise the accumulation of various noise sources Finally, noise and vibration generating equipment should only be operational when necessary

10.2 Control of Noise Spread

constrictors should comply with the recommendations in BS 5228: 2009 the control of noise spread and. from construction noise. This can take the form of a reduction in the source noise level and British Standard 5228: 2009 provides detailed advice on methods for minimising nuisance In order to comply with specified noise criteria, the

10.3 Construction Traffic

a time with a maximum 30 minute stay, and there will be no holding areas permitted The arrival of delivery vehicles must be properly co-ordinated so only one vehicle is present at

drivers of their responsibility to minimise noise levels as far as practicable Vehicles should not be idling unnecessarily and adequate signage must be in place to remind

10.4 Site Hoarding

receivers above first floor level due to the proximity of nearby noise sensitive receivers to the attenuation for ground floor receivers, it is unlikely to have a major beneficial effect to screen the nearby receivers. Although such a barrier will provide some level of noise It is recommended that site hoarding is used at the front of the development in order to

10.5 Localised Screening

site screening from the following items of plant: Additional localised screening should be provided when necessary in order to provide line-of-

- Heavy Duty Breaker
- 9" Angle Grinder



10.6 Proposed Steps to Minimise Noise and Vibration

General

- noise and vibration mitigation shall be used at all times during construction. Best practice, as defined in Section 72 of the Control of Pollution Act 1974, in relation to
- maintained plant. Equipment is to be hired from reputable companies who can supply new well
- Unnecessary revving of engines and motor driven tools is to be avoided.
- Vehicles and plant are to be switched off when not in use.
- Rubber lined chutes and dumpers will be used wherever practicable
- Drop heights are to be minimised.
- practicable Site vehicles are to be fitted with broadband white noise reversing alarms wherever
- permitted working hours. All movement of plant and vehicles onto and around the site is to take place within
- wherever noisy work is taking place. Erect solid screens or barriers around the site boundary and use acoustic fencing panels

Plant machinery and equipment.

- barriers and all practicable mitigation measures. The quietest available equipment and methods will be used in conjunction with noise
- The use of percussive breaking equipment will be avoided wherever practicable
- Noise generating fixed plant shall be located as far from sensitive premises as possible.
- Mechanical generators shall be avoided wherever practicable.
- Electricity driven plant and equipment will be used in favour of diesel or petrol driven plant and equipment wherever practicable.
- manufacturer's instructions. Care is Ö be taken to always select the quietest available equipment, wherever and to keep that equipment well maintained in accordance with
- the guaranteed sound power level (and to be accompanied by an EC declaration of environment by equipment for outdoors is to bear the CE marking and the indication of All equipment covered by European Directive 2000/14/EC on the noise emission in the conformity).

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- Any equipment not covered by the EU Directive should comply with the generic plant in accordance with manufacturers' instructions. noise emissions in Annex C of BS 5228 and should be properly silenced and maintained
- that noise levels are minimised by using the most efficient and well maintained Plant and equipment in frequent use should be replaced every three years to ensure

Key construction processes and equipment

- detached from a structure and lowered to the ground to be used wherever practicable. Wherever practicable building elements are to be demolishes structures by crushing, bending, shearing, cutting or hydraulic splitting are Wherever practicable non-percussive techniques are to be used. Equipment that
- before breaking up separated around their perimeter to isolate the slab from the rest of the structure for breaking up/crushing elsewhere. Where this is not possible slabs are to be cut and wherever practicable slabs are to be levered from their position and removed from site Wherever practicable floor slabs will be broken up using non-percussive techniques and
- practicable to minimise the time taken to break up concrete and floor slabs percussive breakers are to be used, multiple breakers are to be employed where
- informed about timing and to minimise disturbance as far as practicable. contractor is to communicate with neighbours to ensure that they are well
- Wherever practicable non-percussive pile reduction techniques are to be utilised
- Excavation plant will be switched off when not in use and will be subject to regular maintenance and checks and servicing.
- service contract to ensure regular maintenance and replacement of worn parts. Spoil conveyors will be electrically powered with drive motors located as neighbouring properties as practicable and sound insulated. All conveyors must have far from
- this possible and that sufficient contingency is allowed for potential delays on any given necessary by the contractor and design team to ensure that the volume of pours make Concrete pours are to take place only within permitted hours. Careful planning will be
- this is not practicable cutting and fabricating is to take place within a mobile acoustic Steelwork fabrication and cutting is to take place off site wherever practicable. Where enclosure

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- acoustically screened from neighbouring properties. Electrical generators and air compressors are not to be used during construction unless Where unavoidable these are to be located within the site itself and
- A temporary builder's power supply is to be used from the outset to avoid the need for
- attenuating acoustic enclosures or other sound reduction techniques. Where generators or compressors must be used the contractor will demonstrate that they are the quietest available super or ultra-silent units incorporating sound
- Generators and compressors must be switched off when there is no demand on site
- structures to avoid transfer of noise and vibration to adjoining properties. appropriate generators and compressors must be isolated from adjacent

10.7 Proposed Steps to Minimise Dust

Site Management

- complaints log available to the local authority when asked. Record all dust and air quality complaints, identify cause(s), take appropriate measures reduce emissions in a timely manner and record the measures taken. Make the
- site and the action taken to resolve the situation in the log book. Record any exceptional incidents that cause dust and/or air emissions, either on or off
- . Hold regular liaison meetings with other high-risk construction sites within 500 m of the emissions are minimised boundary, to ensure plans are co-ordinated and dust and particulate matter

Preparing and maintaining the site

- Plan site layout so that machinery and dust causing activities are located away from receptors as far as is possible. Use intelligent screening where possible
- Erect solid screens or barriers around the site boundary.
- Avoid site runoff of water or mud
- Keep site fencing, barriers clean.
- unless being re-used on site. If they are being re-used on site then re-cover. Remove materials that have a potential to produce dust from site as soon as possible,
- Depending on the duration that stockpiles will be present and their size, cover, fence water to prevent wind whipping



Operating vehicle/machinery and sustainable travel

- Zone, where applicable. Ensure all on-road vehicles comply with the requirements of the London Low Emission
- Ensure all vehicles switch off engines when stationary
- battery powered equipment where practicable. the use of diesel or petrol powered generators and use mains electricity or
- materials Produce a Construction Logistics Plan to manage the sustainable delivery of goods and
- transport, cycling, walking and car-sharing). Implement a Travel Plan that supports and encourages sustainable staff travel {public

Operations

- exhaust ventilation systems. dust suppression techniques such as water sprays or local extraction, e.g. Suitable local Use only cutting, grinding or sawing equipment fitted or in conjunction with suitable
- suppression/mitigation, using non-potable water where possible Ensure an adequate water supply on the site for effective dust/particulate matter
- Use enclosed chutes, conveyors and covered skips where practicable
- appropriate handling equipment and use fine water sprays on such equipment wherever Minimise drop heights from conveyors, loading shovels, hoppers and other loading or
- spillages as soon as reasonably practicable after the event using wet cleaning methods. Ensure equipment is readily available on site to clean any dry spillages, and clean up

Waste management

- Use only registered waste carriers to take waste off site
- Avoid bonfires and burning of waste materials.



Measures specific to demolition

- the building where possible, to provide a screen against dust). Soft strip inside buildings before demolition (retaining walls and windows in the rest of
- directed to where it is needed. In addition, high volume water suppression systems, particles to the ground. manually controlled, can produce fine water droplets that effectively bring the dust sprays are Ensure effective water suppression is used during demolition operations. Hand held more effective than hoses attached to equipment as the water can be
- Avoid explosive blasting, using appropriate manual or mechanical alternatives
- Bag and remove any biological debris or damp down such material before demolition.

Measures specific to construction

- Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and overfilling during delivery. and stored in silos with suitable emission control systems to prevent escape of material
- stored appropriately to prevent dust. For smaller supplies of fine powder materials ensure bags are sealed after use and

10.8 Publicity and Communication

need to be advised that any higher levels of noise will only be for a short period of time and that publicised works schedules will be adhered to. importance to minimise the impact of construction work. In particular, local residents Good public relations and extensive consultations with local authorities are of paramount

Careful consideration should be given to occupiers of adjoining properties

10.9 Noise Monitoring

approved body, as required by the relevant British Standard, with current calibration out for the duration of noisy works with Class 1 integrating logging sound level monitors. The certificates available. The meters will be set to measure and store samples of various acoustic calibrator. The instrumentation will have been fully calibrated by the manufacturer, or other monitors will be installed and calibration verified (before and after) with a Class 1 acoustic In order to meet appropriate noise levels, it is recommended that noise monitoring is carried



parameters such as L_{Aeq}, L_{A90}, L_{A10} and L_{Amax}. Data would be downloaded remotely on a regular

throughout the working day, which will be used to calculate a 10-hour (daily) Laeq. Monitoring Locations, daily limits and hourly action levels will be agreed with the Council prior to the It is proposed that the meters are configured to log continuous 1-hour samples of noise

10.10 Vibration Monitoring

by the manufacturer, or other approved body with current calibration certificates available It is recommended that vibration monitoring is undertaken for the duration of the works, Data would be downloaded remotely on a regular basis. measuring the peak particle velocity [ppv]. The instrumentation will have been fully calibrated

levels will be agreed with the Council prior to the works. PPV levels throughout the working day. Monitoring Locations, daily limits and hourly action It is proposed that the meters are configured to log continuous 5 minute samples of maximum

10.11 Noise and Vibration Monitoring Alert Systems

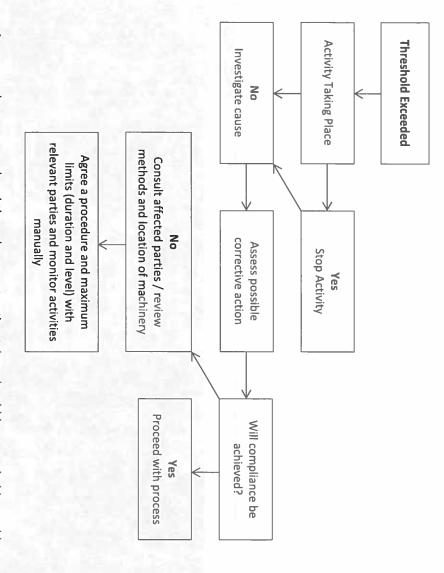
that the following alert systems are implemented: being exceeded at a specific monitoring location at any time during the works, we recommend In order to ensure that the site manager and relevant parties are made aware of noise limits

- SMS alert sent to a mobile telephone number (site manager) as soon as the threshold is triggered the alert. exceeded. The text message would contain information on the noise level which
- would contain information on the noise level which triggered the alert. Email alert sent to an email address as soon as the threshold is exceeded. The email

10.12 Incident Procedure

and construction programme, the following procedure should be followed: Should the noise criteria agreed with the Local Authority be exceeded during the demolition





follows: Any exceedances caused and the subsequent action taken should be recorded in a table as

_	-	_
		Date
		Time
		Findings of Investigation and Action Taken
		-

10.13 Complaints Procedure

All Complaints to be investigated immediately by site manager for investigation and follow up.

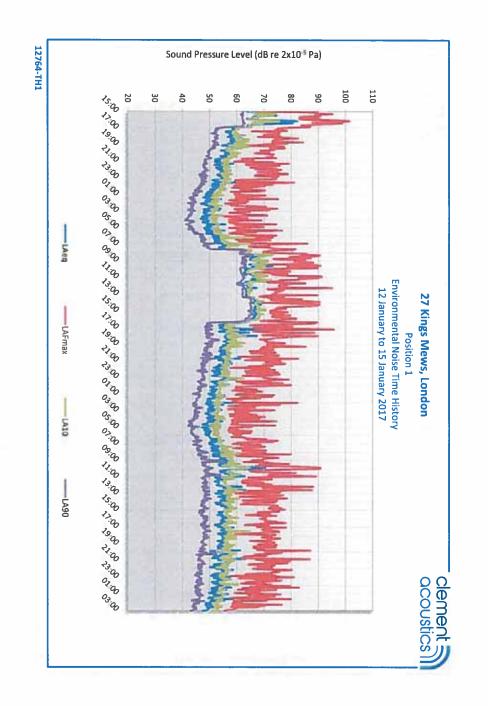
Any complaints should be logged as follows:

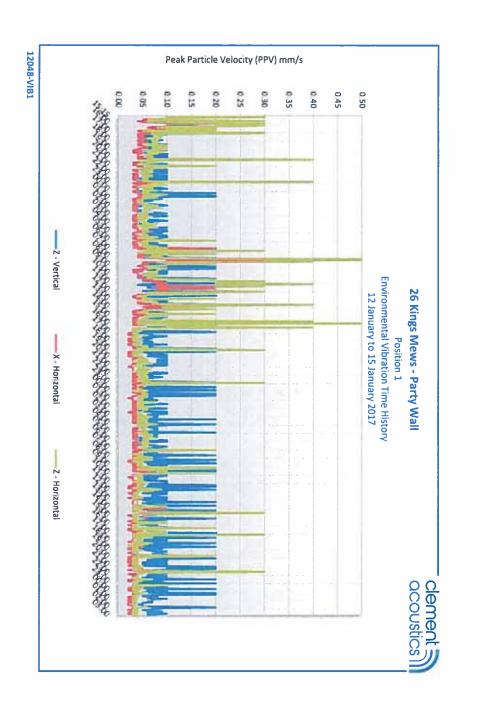
	receipt	Date of
	receipt	Date of Time of
	of complainant	Contact details Description of Date of
	complaint	Description of
	investigation	Date of
	and actions taken	Findings of investigation



sensitive receivers 12764-SP1 Indicative site plan indicating noise and vibration monitoring positions and nearest noise

Date: 07 September 2017





Construction Noise Schedue For Front of Site

12764 10-11 Kings Mews, London

Activity	Plant/Equipment	No	% on time	Start Date	Finish Date
Site Prepatation and enabling works	Makita Combi Drill	2	50	04/09/2017	15/09/2017
Underpinning/bulk excavation	1.5T Excavator	_	80	18/09/2017	02/02/2018
Slab breakout cose to perimeter walls	Heavy duty breaker	N	15	19/09/2017	28/09/2017
Rubbish Collection	Grab Lorry 17T	_	10	27/09/2017	29/09//2017
Underpinning	Medium Breaker	N	20	29/09/2017	02/02/2018
Underpinning	9" angle grinder		15	18/09/2017	02/02/2018
Underpinning	Conveyor drive unit	_	20	18/09/2017	02/02/2018
Underpinning	Makita Combi Drill	2	10	18/09/2017	09/03/2018
Structural concrete pours	Concrete mixer with pump	-	15	19/02/2018	09/03/2018
Bulk Excavation	Grab Lorry 17T	_	20	02/10/2017	02/02/2018
Steel installation	9" angle grinder	-	10	26/02/2018	09/03/2018

Construction Noise Schedue For Rear of Site

09/03/2018	26/02/2018	15	_	9" Grinder	Steel installation
09/03/2018	18/09/2017	15	N	Makita Combi Drill	Underpinning
02/02/2018	18/09/2017	15	_	9" angle grinder	Underpinning
02/02/2018	29/09/2017	30	2	Medium duty beaker	Underpinning
02/02/2018	18/09/2017	40	-	Conveyor drive unit	Underpinning
02/02/2018	18/09/2017	80	-	1,5T Excavator	Underpinning/Bulk excavation
28/09/2017	19/09/2017	20	2	Heavy duty breaker	Slab breakout close to perimeter walls
15/09/2017	04/09/2017	50	2	Makita Combi Drill	Site Preparation and Enabling Works
Finish Date	Start Date	No(1) % on time	No(1)	Plant/Equipment	Activity

8				

3)

APPENDIX A



GLOSSARY OF ACOUSTIC TERMINOLOGY

dB(A)

weighted sound level measurements and the unit is dB(A). achieved by building a filter into the instrument with a similar frequency response to that of the ear. sound level meter duplicates the ear's variable sensitivity to sound of different frequencies. This is This is called an A-weighting filter. Measurements of sound made with this filter are called A-The human ear is less sensitive to low (below 125Hz) and high (above 16kHz) frequency sounds. A

Leq

time period. which would deliver the same sound energy as the actual fluctuating sound measured in the same value can be measured, the equivalent sound pressure level Leq. The Leq is the equivalent sound level The sound from noise sources often fluctuates widely during a given period of time. An average

L10

to exceed" criterion for noise This is the level exceeded for not more than 10% of the time. This parameter is often used as a "not

L90

descriptor of "background noise" for environmental impact studies. This is the level exceeded for not more than 90% of the time. This parameter is often used as

Lmax

This is the maximum sound pressure level that has been measured over a period

Octave Bands

accordance with international standards. frequency region is divided into 10 such octave bands whose centre frequencies are defined in level at each frequency individually. Usually, values are stated in octave bands. The audible In order to completely determine the composition of a sound it is necessary to determine the sound

Addition of noise from several sources

which is 3dB higher than one alone and 10 sources produce a 10dB higher sound level. individual source. Two equally intense sound sources operating together produce a sound level Noise from different sound sources combines to produce a sound level higher than that from any

CLEMENT ACOUSTICS APPENDIX A

Attenuation by distance

Sound which propagates from a point source in free air attenuates by 6dB for each doubling of 3dB for each doubling of distance. distance from the noise source. Sound energy from line sources (e.g. stream of cars) drops off by

Subjective impression of noise

time of occurrence, duration of sound and psychological factors such as emotion and expectations. hearing perception highly individualised. Sensitivity to noise also depends on frequency content, Sound intensity is not perceived directly at the ear; rather it is transferred by the complex hearing many acoustic scenarios. The following table is a reasonable guide to help explain increases or decreases in sound levels for mechanism to the brain where acoustic sensations can be interpreted as loudness. This makes

	_			_	_
20	10	6	3	1	Change in sound level (dB)
About 4 times as loud	About twice as loud	Clearly noticeable	Just barely perceptible	Imperceptible	Change in perceived loudness

Barriers

effectiveness of barriers is dependent on factors such as its distance from the noise source and the Outdoor barriers can be used to reduce environmental noises, receiver, its height and its construction. such as traffic noise. The

Reverberation control

treatment on the surfaces, such as fibrous ceiling boards, curtains and carpets. that is critical for spaces of different uses as it can affect the quality of audio signals such as speech into the room. The amount of reflected sound defines the reverberation of a room, a characteristic or music. Excess reverberation in a room can be controlled by the effective use of sound-absorbing When sound falls on the surfaces of a room, part of its energy is absorbed and part is reflected back