

CONSTRUCTION MANAGEMENT & LOGISTICS PLAN

CLIENT: PRIVATE CLIENT

CONTRACT: 12 ARMITAGE ROAD, LONDON, NW11-8RA

STRUCTURAL WORKS – GROUNDWORKS & UNDERPINNING TO FORM BASEMENT UNDER EXISTING PROPERTY



Method Statement: AR01 (REV 01) 28/04/21

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1.1 INTRODUCTION

1.2 PROJECT DESCRIPTION

The work consists of the structural works to form the underpinning, underground and ground structure to a new basement, with swimming pool, under an existing property, then extend the basement to the rear largely via an open site underpin method.

The existing internal structure to be supported at ground floor level via temporary works to enable the basement to be built from within. The basement to be formed with the existing structure in place which is to remain in place during the works.

The existing house will be underpinned, including the party wall, in 1m sections to ensure structural stability during the works. The relevant structural design and drawings will be issued for the works and Party Wall agreements will be in place prior to commencement.

The site location is as per block plan below:





1.3 CLIENT DTAILS

The Client is VICTOR EL-HOYEK who is to use the developed property as his home. He is also a Director of JEWEL DREAM HOMES LTD.

1.4 SITE OVERVIEW

The existing site is on North Side of ARMITAGE ROAD which is a wide two way street close to GOLDERS GREEN, between the A41 HENDON WAY and A502 GOLDERS GREEN ROAD.

The site has residents parking on both sides but there is sufficient space to pass delivery vehicles and opposing vehicles, and will also be the case when delivery vehicles are parked - kerbside.

This road outside of the site is as shown below:



The site itself has a front garden prior to a dwarf wall behind the footpath. There is no rear access to the property.

1.5 MAIN ISSUES & CHALLENGES

The main challenges with the ARMITAGE ROAD development are as follows:-

- Excavation & Underpinning, including some Demolition of the existing building abutting neighbouring buildings and minimisation of dust, vibration and noise.
- Management of construction traffic during the main phases of the works and distribution of traffic flow evenly between the feeder roads.



- Underpinning of the existing surrounding buildings and minimisation of vibration and movement.
- Erection of the structural frame and structural support work within the existing building.
- Routing of construction vehicles to minimise disturbance to surrounding residents.
- Loading safely across the footpath



2.1 SITE INFORMATION

2.2 SITE LOCATION

The development is on the North Side of ARMITAGE ROAD which is to the West of GOLDERS GREEN ROAD, it is a residential area, which may have several construction site in place undertaking work on residents' properties.

The site is within a largely residential area with no schools within the area which will be covered by construction vehicles once they have left the GOLDERS GREEN ROAD

The location is a per below:







2.3 SITE INFORMATION

The development is a SEMI-DETACHED HOUSE with a first floor and pitched roof, the works involve the installation of a basement and a swimming pool within the basement effectively constructing one and a half basements, with the deeper section away from the party wall.

The work will be undertaken in Phases to minimise temporary works by installing the permanent works into the existing structure prior to its demolition and to undertake the basement works which will have the majority of the existing structure is in place.

Elevations, Plan and section details of the new development are given below:





Part of new basement to be lower than main basement / lower _ ground floor level to accommodate pool & plant room.

eom. E-03 Supplementry Rear Elevation

ELEVATIONS

1:100







GROUND FLOOR PLAN



LONG SECTION

2.4 PARKING CONSTRAINTS ON SITE

One of the RESIDENT'S PARKING directly outside will be suspended for the duration of the works.



The proposal will be to suspend 1no Parking Bays, 1no will be required for delivery vehicles with vehicle also loading and unloading whilst parked across the drive of the property – this will give over 10m of space lorries to load and unload without blocking the entrance to No 14.

The construction vehicles will remain kerbside with supervised loading across the footpath under the control of Road Marshals. (See site Logistics Plan)

The parking bay suspensions will mean that there will be no parking for operatives who will be encouraged to use the local bus and underground services.

2.5 DETAILS OF SITE ACCESS, INCLUDING PUBLIC TRANSPORT, CYCLISTS & FOOTWAYS

The site is not on a bus route and neither do any delivery vehicles have to pass close to a school when leaving GOLDERS GREEN ROAD

The road is, though, used a cut through for cyclists and the footpath can be busy with residents especially first thing in the morning and early evening.

Therefore any vehicle movements will be supervised by at least 2no ROAD MARSHALS who will guide vehicles in and out of the site area and will ensure vehicles stop to allow the public to pass.

The footpath will be required to be crossed to gain access to the site and this again will be under the guidance of the ROAD MARSHALS who will be each side of the operatives and lifting operations crossing the footpath to enable works to stop to allow the public to pass safely.

2.6 CHANGES TO SERVICES DURING THE CONSTRUCTION PHASE

The road will be more congested than normal when the works are being carried out and delivery vehicles will be required to give priority to residents, but there will be no requirement to change any of the Statutory Authority's services during the construction phase.

REFUSE COLLECTION days will be noted and refuse vehicles given priority over construction vehicles



2.7 COMMUNITY LIAISON

JEWEL DREAM HOMES LTD will register the site under the CONSIDERATE CONTRACTORS SCHEME (CCS).

Prior to commencement on site the resident of ARMITAGE ROAD that are deemed liable to be affected will be written to detailing the works the duration, the delivery details and contact details of the site manager and managing director.

If deemed appropriate a MONTHLY UPDATE LETTER will be issued.

Any complaints will be logged by the site manager with the actions taken – this will be open to scrutiny by the CCS and the Local Authority.



3.1 CONSTRUCTION DETAILS

3.2 SITE LOGISTICS

The site will be served by suspending 1no RESIDENTS' PARKING BAYS.

A "Grab Box" will be used within the boundaries of the site for the removal of spoil via a grab lorry parked kerbside.

The lorry will grab over the footpath, other deliveries that cannot be hand off-loaded will also be craned over the footpath – subject to licence from Local Authority if required.

Other materials being delivered to site by hand across the footpath.

Concrete will either be delivered via bags and site batched or via a concrete pump in the suspended parking bays and served via a small concrete lorry.

At all times 2no ROAD MARSHALS will be in place to protect the public using the highway and stop works to allow the public safe passage at all times.

The tree outside of the site will be protected with a plywood surround – the Local Authority will be asked if it can be pruned sufficiently to ensure that the tree is not damaged by delivery vehicles especially lorry mounted cranes.

Site logistic plan as shown below:





Full Plan – Appended to this Document – See Appendix 1 (Suspended Parking Area Shown With Dotted Line)

A hoarding constructed of timber framing and plywood will surround the perimeter, this will be kept in good order and will be painted – this will only be required to the front an open side area to provide security for the site and protect the public.

All storage will be within the boundaries of the site using all areas of the site including the internal areas of the property and the rear garden.

Welfare facilities will be contained within the existing building and will be moved as required by the works – toilet and canteen facilities will be available with hot running water.

The site manage will have an office within the site.

The site gate will be closed except when needed for access, but there will be a door bell fitted and the site contact details will be displayed as a requirement of the CCS.



The road will be more congested than normal when the works are being carried out and delivery vehicles will be required to give priority to residents, but there will be no requirement to change any of the Local Authority Services during the construction phase.

3.3 WORKS PROGRAMME

A detailed programme of works will be issued but shown below are the works milestones based on working weeks only.

The start date will be dependent upon permission from the Local Authority and conclusion of Party Walls issues but will commence immediately all permissions are in place.

Activity	Commencement	Duration	Comments
Phase 1 - Site	Week 1	2 weeks	
Establishment			
Phase 2 -	Week 3	4 weeks	
Demolition			
Phase 3 - Basement	Week 4	20 weeks	
Works			
Phase 4 - Structural	Week 8	4 weeks	
Works internal			
Phase 5 - Cladding and	Week 24	4 weeks	
Externals			
Phase 6 - Internal Fit	Week 28	8 weeks	
Out			
Phase 7 - Completion of the Works	Week 36	4 weeks	40 Weeks Overall

3.4 DETAILED PHASES OF THE WORKS

A detailed programme of works will be issued but shown below are the works milestones based on working weeks only.



Phase 1 Set Up - The site will be hoarded at the boundary with application for appropriate hoarding licence being completed in Phase 1 together with any asbestos surveys and hazardous materials registers.

Phase 2 Demolition - The existing building external area where required will be dismantled from top to bottom largely being completed by using hand tools to minimise impact and disturbance to the neighbouring building. In addition careful dismantling will reduce noise and dust to a minimum. All materials will be sorted on site and hand stacked onto stillages prior to being loaded for architectural salvage. Any general waste will be kept to an absolute minimum and segregated into recycling sub divided containers.

Phase 3 Basement Works - The construction of the substructure generally comprises the excavation and removal of material sufficient to construct the proposed basement area, the preferred method will be by hit and miss underpinning of existing structures and road - consideration may be given to contiguous piled retaining wall but essentially the construction impact will be the same.

Due to the nature of the basement excavation the loading/unloading areas within the site will store material as the excavation progresses and vehicles will be quickly loaded using conveyor to grab-box to minimise loading times in the loading bays. All works will be undertaken using dedicated Road Marshals, temporary pedestrian management during the short loading times.

Phase 4 Structural Works Internal - The construction of the superstructure generally comprises, the construction of the structural frame. All materials will be delivered onto site and stored within the confines of the site ready for erection.

Phase 5 Cladding and Externals - The installation of the skin and external works to front and rear where basement extends will precede the internal fit out of the residential elements. All materials will be delivered onto site and stored within the confines of the site ready for erection. Scaffolding will be erected to the perimeter within the hoarding to erect the cladding for a limited time.

Phase 6 Internal Fit Out - all installation and material movement and storage will be effected from within the site.

Phase 7 Completion of the Works - final finishing and site disestablishment.



3.5 ACCESS ARRANGEMENT FOR VEHICLES

Firstly all vehicles will remain kerbside and therefore there will be no opportunity for them to pick up mud or a requirement for wheel cleaning to be undertaken.

As there will be loading across the Public Footpath, this area will need to be kept clean and free from slip and trip hazards at all times. This will be part of the Road Marshal role to keet the footpath clean and dirt free – therefore on a daily basis it will be swept and jet washed.

Access arrangement for vehicles will be by loading bay because of the restricted nature of the site, thus materials off-loading and loading would be effected through a combination of LORRY MOUNTED CRANE OVER THE FOOTPATH & HAND METHODS, access to the vehicles would be managed via pedestrian control and protection using Road Marshals.

Delivery routes have been outlined as below, during periods of relatively high vehicle numbers it will be managed to ensure only one vehicle will be on site at any one time.

All vehicles will be required to access from the A406 NORTH CIRCULAR into GOLDERS GREEN ROAD, then turning right into ARMITAGE ROAD. To access the site vehicles will take a loop via THE RIDGEWAY, GRESHAM GARDENS and THE WAYSIDE to then be able to pull up outside of the site and then leave the site directly along ARMITAGE ROAD to GOLDERS GREEN ROAD.

The route allows each vehicle to load and unload in designated areas without manoeuvring or reversing allowing safe access and egress.



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VEHICLE ROUTE ACCESS ROUTE

ACCESS FROM WEST FROM GOLDERS GREEN ROAD



ROUTE OUT

Permission to access the site via the A41 HENDON WAY will be requested from the Local Authority where there is currently a weight limit preventing access this has not been assume in the routing above

(NOTE: To avoid the loop as above access from the A41 HENDON WAY will be requested but is currently prohibited owing to a weight limit restriction.)



3.6 PARKING BAY REQUIREMENT TO ALLOW CONSTRUCTION VEHICLE ACCESS

The street has RESIDENTS' PARKING on both sides. To service the site 1no parking bay will be required giving approximately 10m of space for loading and unloading, when parked across No 12 driveway.

Ideally the 1no parking bays will span across the façade of the property only – this will be subject to agreement with the Local Authority.

The 1no parking bay will be required for the structural periods of the works then reduced to operating across the driveway only for the final Phases.

3.7 NUMBER OF DELIVERIES SIZE AND TYPE

The number and size of vehicle to service the site have been estimated as below: Owing to access max length of vehicle 9m, width 2.5m, height 3.5m (32500kg GVW)

Vehicles Type A – GRAB LORRY 9.0m(L), 2.5m (W), 2.8m (H)





Vehicles Type B – MINI CONCRETE LORRY 6.0m(L), 2.5m (W), 2.8m (H)



Vehicles Type C – HIAB DELIVERY LORRY 7.5m(L), 2.5m (W), 2.8m (H)





Vehicles Type D – TRANSIT/VAN 5.5m(L), 2.1m (W), 2.2m (H)



	No of Vehicles	Approx Time Dwell	Size of Vehicles
Site Set Up	2 Vehicle Per day	20 minutes	TYPE C OR D
Strip Out/Demolition	4 Vehicle Per day	20 minutes	2NO TYPE C 2NO TYPE D
Basement Excavation and foundation construction	4 Vehicles per day	20 minutes	2NO TYPE A 1NO TYPE B
	1NO TYPE C		
Structural Works	1 vehicles per day	20 minutes	TYPE C OR D
Cladding & Externals	3 vehicle per day	20 minutes	1NO TYPE A 1NO TYPE C 1 NO TYPE D
Finishes	3 vehicles per day	20 minutes	1NO TYPE A 1NO TYPE C 1NO TYPE D
Completion	3 vehicles per day	20 minutes	1NO TYPE D



3.8 HOURS OF SITE OPERATIONS

Hours of site operation will be in accordance with the planning requirements which are anticipated to be 08:00-17:30 Monday to Friday excluding Bank Holidays and Sundays and 08:00–13:00 Saturdays only.

3.9 SWEPT PATH ANALYSIS

The delivery vehicles will only be required to pull into and out of the suspended parking bay the roads around the site are also used frequently by large construction vehicles therefore deemed Swept Paths are not required.

3.10 DETAILS OF PLANT & MATERIAL STORAGE

Storage of all plant and materials will be within the hoarding line of the site and mobile plant and equipment will be kept in containers within the site boundaries.

3.11 ENVIROMENTAL IMPACT & CONTROL MEASURES

There is a requirement to reduce to a minimum the impacts of any site noise, dust or vibration on any of the surrounding residents, therefore an environmental impact assessment has been undertaken – See Appendix 2

The aim will be to prevent nuisance by controlling at source as summarised below:

NOISE

- Use Diamond cutting as opposed to percussion breaking
- Use electric as opposed to diesel plant
- Put up Noise Attenuation Shielding
- Position static Plant away from boundaries

DUST

- Use wet cutting and breaking processes
- Suppress general dust at source with water sprays
- Avoid generating dust on windy days
- Cover stockpiles that could generate dust

VIBRATION

- Use non-percussive breaking techniques
- Use small tools for breaking brick & concrete



4.1 **DEVELOPING & USING POLICIES**

4.2 WASTE MANAGEMENT

In accordance with the principles of the UK Government's WASTE STRATEGY to REDUCE WASTE and increase RE-USE & RECYCLING a primary aim during demolition and construction will be to reduce the amount of waste generated and exported from the site. This approach complies with the waste hierarchy whereby the intention is first to minimise then to treat at source or compact and finally, to dispose of off-site as necessary. Each element will be subject to the implementation of a wastes policy.

As principal contractor JEWEL DREAM HOMES LTD will be required to produce a construction Site Waste Management Plan – See Appendix 3, which will contain:

- Classification of all wastes expected to be produced;
- Estimation of the quantity of each type of waste;
- Measures to minimise waste generation;
- Record all types and quantities of waste;
- Identify the waste management action for each type of waste.
- including re- using, recycling, recovery of disposal; and

Measures to provide adequate staff straining and awareness.

JEWEL DREAM HOMES LTD will ensure that the plan is kept on site and every other contractor knows where it is kept. All relevant contractors will be required to investigate opportunities to minimise and reduce waste generation.

4.3 ALTERNATIVE TRANSPORT USE

Research has taken place into the viability of the use of RAIL or RIVER TRANSPORT as a possibility of using alternative transport but given the small size of project the low impact of the vehicle movements will obviate clear options for alternative use.

It has been noted that Transport for London's Construction Logistics Plan Guidance provides clear guidance concerning vehicle safety, signage and work related road risk.



Issues such as side guards, proximity sensors, warning alarms, cycle awareness, as road transport is the only viable option

4.4 CONSIDERATION OF OFF-SITE FABRICATION

Offsite fabrication will be considered for most elements of the work. However the main gains in prefabrication will be for such items as structural frame, compound cladding proposals and the use of precast concrete products and planks to reduce deliveries.



5.1 MONITORING COMPLIANCE5.2 DETAILS OF MONITORING OF COMPLIANCE OF CLP

During all stages of demolition and construction the developer will employ a Site Manager. The Site Manager will be responsible for maintaining the CLP. The CLP will be routinely reviewed on a monthly basis and at interim stages as required. The Site Manager will report any updates or improvements to the CLP to the Local Authority on a monthly basis.

During all stages of demolition and construction the developer will employ a Site Manager. The Site Manager will be responsible for maintaining the CLP. The CLP will be routinely reviewed on a monthly basis and at interim stages as required. The Site Manager will report any updates or improvements to the CLP to the Local Authority on a quarterly basis. Regular review meetings between the company and the planning authority will form the primary point of contact for ongoing monitoring. The regular meetings should tackle any medium or low priority issues. High priority issues must be resolved within a shorter timescale

Data sharing All relevant data should be freely available to the planning authority and other organisations and people connected to the development. Data should be presented by the developer or main contractor that matches a list pre-agreed with the planning authority. Data should be submitted on a regular basis, quarterly, for review. The planning authority and the Principal Contractor will agree the monitoring data to be provided.

The Community Liaison and Complaint procedure will also set out the means by which the Site Project Manager should co-ordinate construction logistics with any relevant nearby developments and construction projects.

The CLP shall be a contractual document passed to all contractors, subcontractors and suppliers for enforcement and guidance.



APPENDICES

APPENDIX 1 – SITE LOGISTICS PLAN

APPENDIX 2 – ENVIRONMENTAL IMPACT ASSESSMENT & CONTROLS

APPENDIX 3 – SITE WASTE MANAGEMENT PLAN



12, Armitage Road, Golders Green, London, Barnet, NW11 8RA



Revision: 00

Environmental Impact Assessment & Controls

Date of Review: 28/04/21

Project / Location



Approved by: Position:

Position: Health & Safety Manager **M.Furniss**

Prepared by:

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Issue / Activity	Aspects Consider resources, waste and emissions to air, water, and land	Impact(s) Consider normal and emergency conditions	Significant Y/N	Site Specific Control Measures Include Monitoring Arrangements	References Legislation	Action by Named Individual for Significant Aspects
All Site Activities	Works on site that have impact on others apart from site operatives	Impact on general lives and well-being of neighbours and public at large	Yes	Consultation with Neighbours on works being undertaken and likely effect on them – take all practicable measures to minimise impact in consultation Currently – Neighbours will be both been consulted and will have lines of communication with Contractor	Currently legislation and Best Practice	By Senior Management
Air/Dust	Demolition of existing walls & interiors. Breaking concrete, excavation of hard areas eg Underpins by electric diamond or percussion tools percussion tools	Nuisance to neighbours and public, Reduction in local air quality and loss of visual amenity	Yes	Reduction of dust at source by means of water suppressed diamond sawing wherever possible. Liaison with all those affected by noise to be made to minimise effects on neighbours Monitor dust levels before and during dusty works? Use dust suppressions as necessary. (spraying of water and cover sheeting)	Clean Air Act 1993	Site foreman All Operatives
Air/Dust	Use of debris chutes and/or conveyor belted systems to facilitate the removal of debris material from low level floor areas	Nuisance to neighbours and public, health risk to operatives and loss of visual amenity	Yes	Formation of internal debris chutes and conveyors, use of dust suppression systems throughout works when loading. Shrouding to conveyor when outside of building.	Clean Air Act 1993	Site Foreman All Operatives





		deniveries and rocal resultation due to school etc. Ensure turn off engines while waiting to unload and all suppliers to be made aware of CTMP	Page 2 of 8	vibrations		
Contracts manager Site Foreman Banks man	Clean Air Act 1993	Implement CTMP and ensure all site deliveries are pre- planned with suppliers and Site Management. Timing of	Yes	Traffic leading to air pollution, nuisance to public, local businesses and neidibours from	Transportation vehicles, deliveries and collections.	o
Foreman		where possible.		 Mode of transport Kilometres travelled Delivery Numbers 		
Contracts Manager and Site		Source locally where necessary. Bulk deliveries, where nessible	Yes	Consider sourcing of deliveries	Deliveries to site	0
		Ensure plant is well maintained and not left idling.				
Contracts Manager and Site Foreman	Clean Air Act 1993	Use water with diamond drilling operations and other dust generating activities, Use dust extractors on cutters	Yes	Reduction of local air quality, contamination of surface soils and vegetation	Other dust generating activities on site including diamond drilling and concrete breakout.	ıst
Site foreman All site operatives	Clean Air Act 1993	Ensure areas of works are shielded, keep work areas clean, damp down during dust generating activities,	Yes	Reduction in local air quality and contamination of surface soils and vegetation	Dust from excavation and demolition works,	tsr
Site Foreman All Operatives	Clean Air Act 1993	Reduce drop heights when loading. Store materials out of the wind and cover when necessary, Damp down in dry conditions, Ensure plant is not left idling. Ensure entrances and footpath areas, swept and kept clean,	Yes	Nuisance to neighbours & public, Reduction in local air quality, Dust left on pavement & roads	Storage, loading & un-loading & transportation of dust generating materials	tsr
Site Foreman Banks man	Clean Air Act 1993	Ensure site is left clean, Minimise drop heights and sheet tippers. Conveyor to be enclosed). Dust suppression spraying to be used during dry conditions, full attendance by trained operative whilst loading.	Yes	Nuisance to neighbours in area, Health risk to operatives and loss of visual amenity	Loading of debris material into tipper vehicles and containers both by Conveyor and by hand	ust



Site Manager Site Foreman and Road Marshalls	Site Foreman and Road Marshalls	Contracts Manager and Site Foreman	2						
	Clean Air Act 1993	See MS.RA noise assessment contained on site (read and signed by all site operatives)	el, dB						
Ensure CTMP for deliveries is planned and carried out correctly. Inform neighbours of work prior to start, minimise delivery duration by pre- notification 30 and 10 minutes.	Implement CTMP, Ensure dusty materials being transported are sheeted Ensure wheels are cleaned leaving site and debris is sheeted, appropriate signage.	Noise monitoring to be carried out prior to and during works. Liaison with all those affected by noise to be made to minimise effects on neighbours. No noisy work out of hours, In sensitive locations use of screens to reduce the impacts – eg hoarding with sound deadening quilting. From details of previous Sites we anticipate noise at site boundary to be in line with measurements as below	cade Construction Noise Leve Lass 12 hour	61	60	65	62	61	58
Yes	Yes	Yes	Fa	9			rea	ea	
Congestion of traffic increasing vibrations & noise. Complaints from neighbours and rest of public	Increase in dust and air pollution, nuisance to public, risk of dirt and dust being washed into drains	Disturbance to local residents and public. The Measurement of Noise at the Façade – show building to be CAT A under BS5228 65dB	Phase	section of existing floor sla	iqqinq	ng down firm soil	al of hard material, small ar	al of hard material, large an	ting
Oversized deliveries, excavating and demolition plant access.	Dust and dirt deposited by transportation vehicles and plant travelling to and from site.	Demolition and excavation inside the building		1 Cutting	2 Hand d	3 Breakin	4 Remov	5 Remov	6 Concret
Traffic	Traffic	Noise							



Site Foreman and Machine operator	Site foreman and banks man	Contracts Manager Site Foreman and All site operatives	Site Fore man Piling rig operator and Banks man	Contracts Manager Site foreman and all site operatives.
		MSRA site copy to be read in conjunction with site inductions with weekly site briefings and tool box talks to be carried out for relevant working practices.		
Utilise non percussive techniques when possible, ensure plant is to be well maintained and do not leave plant idling. Any noise complaints are to be recorded and reported to manager so action on other options can be considered.	Produce traffic management plan for site & ensure all deliveries are scheduled through the Site Foreman. Ensure all delivery vehicles turn off engines while waiting Loading and unloading areas are established adjacent to site only.	Avoid noisy works in sensitive areas where possible and only within noisy working hours (if restrictions apply) Ensure equipment is well maintained and is not left idling. Ensure the relevant personnel are aware of noise and vibration levels	Ensure plant is delivered to site appropriately and a competent person is responsible for plant movements on site	Work method if issues with vibration arise? (monitoring) Use well maintained plant and where possible utilise non percussive techniques, light weight electric breakers and shortened suitable working usage periods.
Yes	Yes	Yes	Yes	Yes
Disturbance to neighbours and public	Disturbance to neighbours and public	Disturbance to neighbours and public	Disturbance to neighbours and public	Disturbance to neighbours and public
Large site plant & equipment	Loading and unloading of vehicles within site area & transportation to and from site	General works, concreting, grinding, use of compressed air tools for underpinning excavation.	Movement of plant and equipment around site	Groundworks
Noise	Noise	Noise	Vibration	Vibration







Safety manager Contracts manager and Site Foreman	Contracts manager and Safety manager to carry out tool box talks and work specific briefing.	Site Foreman and fuelling operative (works specific duty)	Site foreman and all site operatives
Liaise with Safety Manager on how to deal with environmental incidents. Double bunded tanks for all fuels – storage of flammable liquids kept to a minimum No burning or welding equipment to be stored on site Signage & provide necessary spillage kits	Store all oils, COSHH & hazardous chemicals in bunds in a secure location to prevent any spillages. Do not store COSHH or other chemicals close to vegetation, drains or traffic routes. Ensure empties are disposed of following COSHH guide lines. Appropriate separate storage and means of disposal.	Fuels need to be stored in a bunded lank. Use a Drip tray when refuelling. Designated person to deal with any spillages. (site fuel safe) Location of oils & fuels not near drains & signage identifying drain locations	Operative to wash out the mixer, pump equipment into lined skip or boxing out. Once concrete hardens remove as hardcore. Sheeting to cover drains to stop blockage of sewers when necessary
Yes	Yes	Yes	Yes
Contamination of soil, groundwater and domestic drinking supplies, cross contamination of air and ground by gases and chemical released from contaminated water and impacting on wildlife	Contamination of groundwater & poisoning of wildlife.	Contamination of groundwater & soil. Damage to surrounding vegetation & wildlife	Contamination of groundwater, soil & surrounding vegetation, Blockage of sewers
Oil leakages from tanks and containers, major incident	Poor storage of chemicals & materials, COSHH & hazardous waste Note: within specific site petrol, diesel and cement	Spillages during liquid transfer (re-fuelling etc) and storage of fuels and oils	Washing out of concrete skips, trucks & other equipment
Contamination of land & water	of land & water	Contamination of land & water	Contamination of land & water

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JEWEL	
DREAM HOMES	

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Manager and Site Foreman	Site Foreman and all site operatives to be continuously monitored.	Site Foreman and all site operatives to be continuously monitored	Pre-start meeting with client and client professional team	Pre-start meeting with client and client professional team	Site foreman briefs and reported to Contracts manager
Minimise the visual impact of the site by decorating the hoarding, maintain as necessary. Hoarding and enclosed conveyor and gantry to be well light throughout project duration.	Prevent litter and dust around the outer perimeter of the site Ensure roads and footpaths are kept clean. If there are any issues with litter and dust, clear with road sweep.	No smoking on site operatives to smoke away from site area and not congregate in groups around site or on footpath outside of site	Be aware of sensitive times for nesting birds etc, liaise with RBKC	Ensure that materials, fuels COSHH and waste are stored and transported responsibly to avoid pollution incidents	Signage in specific areas in canteen, toilet to show tips and advice on reporting leaking taps. Minimise amount of water being used when washing down at site entrances. Signage
Yes	Yes	Yes	yes	Yes	Yes
Complaints from neighbours, poor public image	Complaints from neighbours, poor public image	Complaints from neighbours, poor public image	Disturbance to wildlife from site activities	Permanent damage to trees, damage to eco- systems and damage to wildlife	Depletion of water resources and costs
Site boundary hoardings	Litter & dust around site	Smoking on site or surrounding area	Noise	Contamination of surrounding soil and vegetation by fuels, oils, dust and other harmful substances.	Water use in site offices, canteen and drying room
Visual amenities	Visual amenities	Visual amenities	Ecology	Ecology	Water wastage

Manager/Foreman and all site operatives	Safety and Contracts managers Site Foreman	Plant operators Site Foreman TFL – FORS Requirements.	Communicated through site foreman to suppliers	All operatives to use public transport once day one site set up (occasional)
Monitoring of water usage, via meter, aiming to reduce consumption. Set targets for comsumption and monitor	Hoarding lighting and task lights to be switched off during daytime. In day time dark areas as and when operatives are at break. At the end of the day ensure all kitchens, welfare & office equipment and properly switched off. Turn off all heaters at night, minimise drying room heating at night run as restrictive. Raise awareness of CO2 emissions with signage around site, discuss ways and means within tool box talks and briefings.	Monitor the amount of fuel & electricity used on site and create signage to inform. Ensure all operatives are aware of who they can contact if problems. Ensure that any vehicles are not left idling and all vehicles are well maintained.	Signage, switch off engines while waiting to unload, source locally where possible	Encourage use of public transport to all employees No parking surrounding site area.
Yes	Yes	Yes	Yes	Yes
Depletion of water resources and costs	CO2 emissions & electricity cost. Depletion of natural resource	CO2 emissions & diesel costs. Depletion of natural resources	CO2 emissions & diesel costs	CO2 emissions & air pollution, traffic
Many construction activities	Energy use – lights, office equipment, office heaters, drying room & kitchen equipment	Plant & equipment	Haulage to & from sites	Transport of staff to site
Water wastage	CO2 emissions	CO2 emissions	CO2 emissions	CO2 emissions

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Site Foreman and Contracts Manager		Contracts manager and Site Foreman
Ensure security is in place, maintain hoarding and ensure the site is locked up securely each night. Do not leave keys in plant and keep all fuel; hazardous materials supplies safely bunded and locked where possible.	Ensure that all timber in from a sustainable source prior to placing order. Ensure all waste timber is recycled and not sent to landfill	Display considerate contractor's information. Inform local residents of project through client professional team.Site Foreman contact details displayed on hoarding.
Yes	Yes	Yes
Damage to property, stolen property	Use of timber from unsustainable sources	Complaints from local community/neighbours regarding environmental issues
Entering of/wilful damage to unsecured sites by trespassers	Timber used in the works	Informing local community/neighbours of project development, aims and contacts
Site security	Sustainability	Socio- economic





SITE WASTE MANAGEMENT PLAN

<u>Note: This plan has been produced as a requirement for all contracts valued over £300K as per</u> <u>the SITE WASTE MANAGEMENT PLANS REGULATIONS 2008 (Noted that the Regulations have</u> <u>now been withdrawn)</u>

CONTRACT: 12 ARMITAGE ROAD, LONDON, NW11-8RA

Client: PRIVATE CLIENT

Date: 28/04/21

Responsibility:

Name: Name of Principal Contractor: Name of Project Manager: Name of Person Drafting Plan: MALCOLM FURNISS JEWEL DREAM HOMES LTD VICTOR EL HOYEK Malcolm Furniss – Health & Safety Manager

Construction Project:

Location (address, postcode if appropriate): 12 ARMITAGE ROAD, London, NW11-8RA

Nature of Works: Basement construction and extension of property to rear, erection of super and substructure structural works including, structural steel and load bearing masonry and internal finishing works

Estimate Project Cost: £ 1,000,000

Materials Resource Efficiency:

In general, the spoil arisings from the works are inert rubble and spoil from existing building and soil which cannot be used elsewhere on site. There may be limited opportunity to use brick/concrete debris as a fill material. Where possible spoil using from the works will be spread and levelled on site only the excess and unsuitable material will be removed from site.

Waste Management:

Declaration:-

The client and principal contractor will take all reasonable steps to ensure that:-

- a) The philosophy will be to manage the works efficient to reduce the amount of waste produced and to explore all possibilities of reusing materials currently on site before removal from site and to seek sources to reuse or recycling off site if this is not possible.
- All waste from the site is dealt with in accordance with the waste duty of care in section 34 of the Environmental Protection Act 1990 and the Environmental Protection (Duty of Care) Regulations 1991.
- c) Materials will be handled efficiently and waste managed appropriately.
- d) All operatives will be inducted prior to commencement and this induction will include details of SWMP and how they are to play their part in reducing waste and its correct disposal.
- e) The SWMP to be monitor via feedback from Waste Carriers on a monthly basis to ensure that the waste produced is being handled according to the Plan



WASTE PRODUCED - ESTIMATES & ACTUAL

	Quantity (tonnes)						
Waste Types:	Re- use on site	Reuse Off site	Recycling Off site	Recycling On site	Other form of recovery off site	Sent to Landfill	Other Disposal
Estimate:							
Inert							
Clav/sand/gravel	50	600	0	0	0	50	0
Brick/Concrete	10	50	0	0	0	0	0
Iron/steel	0	5	0	0	0	0	0
Non Hazardous							
Timber	0	20	20	0	0	0	0
Paper/polythene	0	0	0	0	0	10	0
Hazardous							
Contaminated food waste	0	0	0	0	0	5	0
Oil waste	0	0	0	0	0.1	0	0
Actual: (TO BE ASSESSED)							
Inert							
Clay/sand/gravel	0	0	0	0	0	0	0
Brick/Concrete	0	0	0	0	0	0	0
Iron/steel	0	0	0	0	0	0	0
Non Hazardous							
Timber	0	0	0	0	0	0	0
Paper/polythene	0	0	0	0	0	0	0
Hazardous							
Contaminated food waste	0	0	0	0	0	0	0
Oil waste	0	0	0	0	0	0	0
TOTAL (ACTUAL)	0	0	0	0	0	0	0



WASTE HAULIER DETAILS:

INERT WASTE – Soil, concrete & bricks

Lynch Plant Fourth Way Wembley Middlesex HA9 0LH

Waste Licence Number: GTL361483

Waste removed to landfill, crusher or for building up/capping layers.

NON HAZARDOUS & HAZARDOUS – all other waste (Via Skips)

Maguire Skips Wandle Way Mitcham London CR4 4NB

Waste Licence Number: CB/BE5904KJ

Waste removed to recycling/transfer station for sorting and recycling.

SUB-STRUCTURE CONSTRUCTION

It should be noted that the sands, gravels and clay from the excavation works rarely goes to Landfill. Currently the Tips north and west of London are using inert spoil to re-grade the ground and create new amenities

WASTE RECORDS

Dates Removed (from - to)	Waste Type	Identity of the Company removing the waste	Site the waste is being taken to:	Number licence of destination:	Waste Carrier Registration No:
TBA – The Waste Removed will be recorded via Maguire Skip and Lynch Plant					



NB: Evidence of waste carrier registration and waste transfer or hazardous waste consignment notes for each removal of waste Will be provided either as part of the plan, or filed and cross-referenced.



POST CONSTRUCTION

(WITHIN THREE MONTHS OF THE CONSTRUCTION WORK BEING COMPLETED)

Confirmation:

This plan has been monitored on a regular basis to ensure that work is progressing according to the plan and has been updated to record details of the actual waste management actions and waste transfers that have taken place.

Signature: Date:....

Issue:	Details:
Explanation of any deviation from the planned arrangements.	Generally most waste has re-use, brick goes through crusher to be reused and spoil from ground used as landscaping material
Waste forecast exceeded	Waste in line with what expected
Waste forecast not met	Waste in line with what expected
Cost Saving Achieved	Able to gain reduced costs on skips when clearing brick and concrete only