CONSTRUCTION AND ENVIRONMENTAL MANAGEMENT PLAN

FOR

BELLWAY HOMES

FOR THE NEW BUILD DEVELOPMENT AT:

Cavendish road, Didsbury

INTRODUCTION

This plan sets out how health and safety matters are to be controlled on site. It outlines the project to be undertaken including the matters listed in the following index.

This plan must be used in conjunction with the company Health & Safety Policy and Procedures Manual and Contractor Risk Assessments and Method Statements.

BELLWAY HOMES' HEALTH & SAFETY STATEMENT

It is the policy of our company to do all that is reasonably practicable to prevent personal injury and danger to the health of all within our employ and others who may be affected by our activities. Employees at all levels, including Sub Contractors, are to actively support the company in its efforts to ensure the requirements of the Health and Safety at Work Act and all other relevant legislation.

It is also the policy of our company to promote good health amongst employees and be concerned with the prevention of occupational and non-occupational disorders and diseases. Work related stress is included within the meaning of good health.

The Company will provide such information, training and supervision, together with plant and equipment which is suitable and safe for work as may be needed to ensure these objectives are met.

This policy will be reviewed and updated to meet with changes within our organisation and / or legislation by the Group Health and Safety Manager.

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No.	Date	Description of Update	Updated By	Approved By
0				

SECTION 1

NAME / LOCATION OF PROJECT:

Cavendish Road
Didsbury

DESCRIPTION OF PROJECT:

Bellway Homes will be in control of the full construction activities which includes the construction of 74 properties. 50 are houses & 24 are apartments.

START DATE OF PROJECT: December 2016

DURATION OF PROJECT: 2 and a half Years

CLIENT:
Bellway Homes (Manchester Division) Ltd
304 Bridgewater Place. Birchwood. Warrington. Cheshire. WA3 6XG

PRINCIPAL DESIGNER:
Bellway Homes (Manchester Division) Ltd (Team)

PRINCIPAL CONTRACTOR
Bellway Homes (Manchester Division) Ltd (Team)

DESIGNERS:

Architect: Bellway Homes
Engineer: Bellway Homes

EXISTING SERVICES ON SITE
All existing services have been discounted prior to this phase of construction.
Permits to dig and safe working practices will be undertaken on site.

Gas - Precautions must be taken when carrying out works in the vicinity of Underground Gas Pipes. Transco advice notes (See enclosed) to be followed along with H.S.E. Guidance Note HS (G) 47 Avoiding Danger from Underground Services to be followed. Emergency Contact number 0800 111 999.

(See the enclosed plan) No other mains are shown within the development on National Grids plans

Electric Underground - Precautions must be taken when carrying out works in the vicinity of underground electrical services. Power Systems advice notes (See Enclosed) to be followed along with H.S.E. guidance Note HS (G) 47 Avoiding Danger from Underground Services to be followed. Emergency contact number 0845 272 2424 or 0845 273 4444 Enquires.

Works within this area are to follow HS(G)47 No other mains are shown within the development on United Utility Plans.
Water - Precautions must be taken when carrying out works in the vicinity of underground water services. United Utilities advice notes (See Enclosed) to be followed along with H.S.E. guidance Note HS (G) 47 Avoiding Danger from Underground Services to be followed. Emergency contact number 08457 462200.
BT - Precautions must be taken when carrying out works in the vicinity of BT apparatus dial 100 and ask for the operator for Dial before you dig for advice or enquires regards existing BT Plant.
CABLE TV SERVICES (Existing Virgin Media Plant)
Precautions must be taken when carrying out works in the vicinity of Virgin (Cable) Equipment (Plant) Follow H.S.E. Guidance notes HS (G) 47 Avoiding Danger from underground services.
Manholes / Sewers - Precautions must be taken when carrying out works in the vicinity of United Utilities wastewater network. Follow United Utilities general conditions and precautions to be taken, (See information enclosed.)

SITE HISTORY:

Previous Land uses of site:

Existing information on modified structures is limited

A full structural survey will be required for the demolition phase of this development. This will provide information for the demolition contractor to demolish the building safely in line with British Standard 6187 2011 Code of Practice for full and partial demolition:

The main risks associated with demolition activities include:

- Falls from height
- Injury from falling materials
- Uncontrolled collapse
- Asbestos exposure
- Risk from connected services
- Traffic management
- Hazardous materials
- Noise and vibration

- Fire
- Worker involvement

Relic foundations / basements and extensive buried obstructions are present across the entire development site which will pose a constraint during redevelopment. These will require removal (in their entirety) with a full turnover of all Made Ground to enable the construction of the proposed dwellings and associate infrastructure

SURROUNDING LAND USES:

Residential houses are adjacent to several elevations on this project.
The following control measures will be required:

Traffic routes to be maintained in a clean and tidy manner.
Road Sweeper to be deployed as and when required.
Site Speed Limit of 10mph to be implemented (limiting to rise of dust).
Dampening down of traffic route as and when required.
All delivery vehicles are to be sheeted.

There is a school near to the site, it is Cavendish Primary School.
Ongoing assessments will be required to ensure construction traffic does not have an adverse effect during busy school times. Delivery times may need to be restricted.

ACCESS TO SITE:

Access to the site will be by Cavendish Road.

PUBLIC RIGHTS OF WAY:

The perimeter to the site will be fully secure with heras fencing (double clipped).
Entrance to the site will be controlled with a gate access. The front of the site will be secure at all times when practical (e.g. deliveries etc)
This will be fully communicated to the Principal Contractor and full cooperation and coordination will be in place.
Security services will be used when required and this will be assessed

on an ongoing basis.
Continuous monitoring will be required to the site perimeter integrity and all site safety requirements for protection of the public and unauthorised access to site. This includes back filling excavations when practical, storing materials safely, measures along with emergency rescue equipment, covering man holes, securing plant, taking ladders down or covering, warning signs, and site security.

No Go areas

During the remediation process of this site the areas of contamination including asbestos remediation will require segregation at all times.

Before work commences in line with Bellway evaluation procedures all contractors will be checked for compliance with environment management. Risk assessments and Method Statements in relation to the prevention of pollution to the water course will be requested by the allocated specialist contractors.

SITE CONTAMINATION:
The site has been fully remediated for construction to start. A copy of the remediation report will be fully communicated to the ground works contractor.
The ground works contractor will implement any requirement stipulated in the remediation report.

GROUND CONDITIONS:
(See file number 2 which has all the Pre-Construction information)

ENVIRONMENTAL ISSUES

All requirements set out in the Ecological assessments will be implemented into the Construction Phase Plans for this development.

1. Environmental Protection

The execution of a project often has a significant impact on the local environment and local residents.
It is clearly in the best interests of all concerned if Contractors are seen to have a caring and considerate policy about the protection of the local environment.
Due to the site being in a very densely populated residential area, there is a need to harmoniously manage traffic.
The Principal Contractor shall ensure where practicable that all work is carried out in a manner, which considers and minimizes the effects on the local environment. He will also ensure that all legislation covering environmental issues are fully complied with.
Outside the hours of 08-30 to 1400 Saturdays.
At any time on Sundays or Bank Holidays.
Waste materials, including empty containers, paper, kitchen waste and debris shall be placed in designated waste disposal skips around the site and not be allowed to be blown about the site and adjacent area.
Waste removal from the work location shall be classified in accordance with the Environmental Act 1990 and transfer documents.

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Health & Safety at Work Act 1974.
GS29 Parts 1-4-7-8.
The Provision and use of Work Equipment Regulations 1998.
The Management of Health & Safety Regulations 1999.

Legislation relating to hazardous materials COSHH Regulations 2002.
The Construction (Design & Management) Regulations 2015.
HSE information notes GS 29 Parts 1 – 4.
The Control of Pollution Act 1974.
The Party Wall Act 1996.
The Lifting Operations and Lifting Equipment Regulations 1998.
The Control of Asbestos at Work Regulations 2012.
The Work at Height Regulations 2009.
The Control of Noise at Work Regulations 2005.
All Asbestos materials to be removed in accordance with EH36.
A noise reduction and control programme is to be implemented. No Operations, which are audible at the site boundary, shall be carried out.
Outside the hours of 0800 to 1800 weekdays.
Outside the hours of 08-30 to 1400 Saturdays.
At any time on Sundays or Bank Holidays.
Waste materials, including empty containers, paper, kitchen waste and debris shall be placed in designated waste disposal skips around the site and not be allowed to be blown about the site and adjacent area.
Waste removal from the work location shall be classified in accordance with the Environmental Act 1990 and transfer documents.
Pollution: The Environmental Protection Act 1990 & the Control of Pollution Act 1974

The Guidance below must be included in the safe working practices of the Principal Contractor:

SEPA l
Engineering in the water environment good practice guide. Temporary Construction Methods.
Environmental guidance notes
PPG 2 Above around oil storage tanks
PPG5 Work and maintenance in or near water
PPG 6 Working at Construction and Demolition Sites pollution and prevention guidelines.
PPG 7 Refuelling facilities
PPG8 Safe storage and disposal of used oils
PPG18 Managing Fire water and major spillages
PPG 21 Pollution Incident Response Plannin

SECTION 2

MANAGEMENT OF THE WORK

The Site Manager will be present on site as far as is practicable at all times whilst construction work is being carried out on site. He is responsible for the day to day health and safety issues on site.

If for any reason he has to leave the site for short periods of time then a Competent Person will be appointed to attend to health and safety issues during his absence.

Lines of communication for health and safety are show in the Company Health & Safety Policy, a copy of which is held on site.

Details of health and safety training and experience is held at Head Office.

MANAGEMENT STRUCTURE AND RESPONSIBILITIES

Construction Director: Paul Wright.

Contracts Manager: David Gratziano

Site Manager: Mark Atherton, John Hudson

Other Site Supervision
All subcontractors will be expected to provide adequate supervision for their works.

HEALTH AND SAFETY GOALS FOR THE PROJECT

It is the aim of Bellway Homes to construct this site in such a way as to alleviate any risks as far as practical to both site operatives working on the project and visitors or members of the general public including children.

ARRANGEMENTS FOR MONITORING AND REVIEW

- The Site Manager will carry out a Daily Safety Inspection at the start of each working day.
- Safety inspections will be carried out monthly by the NHBC.

- A report of these inspections will be held on site. Site Managers must attend to all matters mentioned immediately and advise their manager what action has been taken on their monthly health and safety return. (Issues should be notified to subcontractor via the fax back form)
- A copy report will be forwarded to the Construction Manager and Contracts Manager. They will ensure that the remedial action required has been taken.
- All accidents will be investigated to ensure lessons are learnt and preventative measures are taken to ensure similar occurrences are prevented.
- Safety Contact Details: Claire Walker, 07980 739245

ARRANGEMENTS FOR LIAISING BETWEEN PARTIES ON SITE:

Subcontractors contact with the Planning Co-ordinator Team will be through:

Site Manager: Mark Atherton John Hudson

Important*
When necessary the Site Manager will arrange site meetings with contractors to discuss any work which he feels may require co-ordination between them or other site operatives. Notes of these meetings to be kept in site diary.

CONSULTATION WITH WORKFORCE

We have a duty to consult with people on site. You are therefore advised a notice must be displayed advising all operatives on site to consult the Site Manager about any problems they have regarding health and safety.

All persons working on / visiting the site will be given a site specific safety induction prior to entering the construction zone. Further relevant information will be passed on via ‘Tool Box Talks’ and/or displayed on the site notice board.

Pre-start meetings will be held with subcontractors and weekly site meetings will also be used as a forum to discuss Health & Safety issues relating to the site.

DESIGN CONSIDERATIONS

Summary of any specific high-risk activities which cannot be designed out:

Excavations.
Traffic Management.
Manual Handling.
Mechanical Lifting.
Working at Height.
Dusts and vapors.
Deep Sewers.
Venting of existing sewers.
Protection of the Public.
Sewers to be directed away from gas mains with exception to crossing points.
CAT scanning required to determine existing electrical cables.

SELECTION AND CONTROL OF CONTRACTORS

All contractors who work on this contract:

- Have been checked to ensure provisions have been made for health and safety and their health and safety policy is up to date where applicable (Approved contractor list is held at the Regional Office).
- Issued with pre-construction phase plan where necessary.
- Issued with standard health and safety terms and conditions of contract.
- NHBC ‘Safemark or CHAS’ approval is preferred.

HEALTH & SAFETY PROBLEMS WITH SUBCONTRACTORS

This section must be filled in by the Site Manager where he has experienced problems with Subcontractors on site:

Name of Contractor	Health and Safety Problems Identified	Action Taken

* Fax back sheets to be used to report Safety issues to subcontractors

EXCHANGE OF HEALTH AND SAFETY INFORMATION BETWEEN CONTRACTORS

Notice to be copied from this plan and displayed on site.

NOTICE TO ALL
SITE OPERATIVES AND SUBCONTRACTORS

Under the CDM Regulations we have a duty to co-operate and consult with all contractors and employees on site with regards to matters of Health & Safety.

You are therefore advised anyone working on this site who is concerned about Health & Safety issues must contact:
SITE MANAGER: John Hudson Mark Atherton

If you find the Site Manager is unable to resolve the problem then you must contact:

CONTRACTS MANAGER: David Gratziano

SITE SECURITY

Fencing Requirements

Boundaries will be maintained and supplemented with additional temporary fencing as needed until permanent boundaries are installed. The remainder of the site will also be heras fenced as required until replaced with permanent fencing. Fencing will be adapted as buildings are occupied to separate them from working areas.
Minimal amounts of fencing can be removed, only with Site Management approval, for the purpose of gaining access to working areas and must be reinstated as soon as works are complete in that area. Removal of any fencing will only be on Site Managers authority and subject to ongoing monitoring.

In general:

Permanent 1800mm fencing will be installed where ever possible, otherwise:-

Heras fencing will be erected to the build and material storages areas observing the following rules:_

feet must be placed on the inside line of the fence panel to remove any trip hazard.

all panels must be double clipped

all panels must be braced in accordance with the design calculation drawings you have on site.

The site manager or nominated operative will check perimeter fencing around the site on a daily basis and enter his findings in his diary.

Safety Sign Requirements

Throughout the project the Principal Contractor will ensure that suitable signage is displayed on site to manage visitors, authorised / unauthorised access and to identify construction hazards.

Security Arrangements

Minimum requirement: The Site Manager or his nominated representative will check the perimeter fence ensuring all is secure before locking the site before leaving. In addition, a Security Guard will be based on site out of working hours (actual hours of cover will be regularly reviewed and altered as deemed necessary). The guard will carry out regular patrols and record details in the site security log book.

Specific Rules

Out of hours:

Ladders will be removed and secured or their use restricted.
Plots under construction are to be made lockfast where possible.
Excavations will be fenced off.
All plant, equipment and tools will be secured and immobilised.
Materials will be check for safe stacking.
All edge protection on working platforms will be checked for compliance.
The gates to compounds and other fenced areas will be closed and locked.
Flammable materials, such as LPG and HFL, will be stored away from site offices and buildings under construction and kept under lock and key.

During working hours:
All visitors must report to site office.
Employees and contractors will only be authorised to enter working areas of the site following attendance at induction training.
Visitors that have not received induction training will be escorted whilst on site by competent site staff.

SITE INDUCTION

All operatives on site to receive trade specific and general induction training before working on site.

ON SITE TRAINING

Site Managers
It is Company Policy that Site Managers receive training in the following:

- Site Safety Awareness
- 5 Day Construction Skills Safety Management
- Scaffold Appreciation
- Excavation Safety
- First Aid at Work
- Risk and COSHH Assessment
- Specialist training will also be carried out for lifting operations and as site operations dictate.

Operative Training
Operatives carrying out specialist duties as follows will require proof of relevant training:

- Scaffolding, including the erection of Tower Scaffolds
- Operating any plant or equipment
- Lifting operations, slinging
- Banksman
- Excavations
- Entry into confined spaces

Copy certificates of such training must be obtained and filled in Section 4 of the Construction Safety Plan.

General Training
Anyone who is exposed to a hazard identified by a risk, coshh manual handling, or noise assessment must be given copies of relevant parts of those assessments. They should be informed of the nature of the hazard, the risk involved and the control measures required. They should receive training in the use of control measures (where necessary) especially in the use of protective clothing and equipment.

Tool Box Talks
It will be necessary to hold such talks where site inspections or general experience on site show that defects in health and safety performance is due to a lack of knowledge or understanding on the part of the site workers. For instance, if there were repeated defects in scaffolding due to unauthorised modifications, then a talk on scaffold appreciation would be required. These talks could be given by the Site Manager or other appropriate employee.

WELFARE FACILITIES
(Minimum requirements from day 1 at all times)

- Locking mess room with seating (all seats must have a backrest)
- Locking drying room
- Cooking and drinking water facilities (in canteen)
- Hot / cold running water with supply of soap / towels
- Toilets

FIRST AID
A qualified first aider will be present on site at all times and ensure the first aid box is available and adequately stocked.

The trained First Aider on site is
Mark Atherton & John Hudson

REPORTING OF ACCIDENTS AND DANGEROUS OCCURANCES

The Site Manager will ensure all accidents are recorded in the site accident book and the appropriate action taken.

He will also ensure adequate first aid equipment is kept on site at all times.

Reporting of RIDDOR Information
RIDDOR "Reporting of Injuries, Diseases and Dangerous Occurrences Regulations"

The Site Manager will ensure all accidents, ill health and dangerous occurrences which need to be reported to Health and Safety Executive (over 7 days absence from work) not including the day of the accident, are reported to their Contracts Manager and Safety Consultants without delay and a Bellway Accident Report Form must be completed and forwarded to Nigel Squires
Fax 01661 844725

Please note:
All contractors working on site have a duty to report all over 7 day absence accidents to the HSE

SITE RULES

The site rules must be brought to the attention of all operatives on site and a copy displayed in the site office and mess room. (see attached Site Rules Notice)

GENERAL SITE RULES

- All persons report to the Site Manager on arrival at site to sign in and receive induction training.
- Head protection must be worn at all times when on site, except when in site accommodation or as directed by the Site Manager.
- High visibility clothing must be worn at all times when on site, except when in site accommodation or as directed by the Site Manager.
- All personnel working on or having access to the site will wear safety footwear.
- Personal Protective Equipment shall be worn as required for all specific activity or as identified through Risk Assessments and Method Statements.
- Defecating and urinating in houses under construction or anywhere on site other than in the toilets provided is strictly forbidden.
- Damaging or misusing any plant or equipment will not be tolerated.
- Site speed limit is 10 mph.
- Work areas are to be kept clean and tidy and debris placed in the skips provided.
- All ladders must be secured when in use.
- No person may alter scaffolding unless competent and authorised by the Principal Contractor to do so.
- All persons on site have a duty to report any accident, or dangerous occurrence, to the Site Manager.
- Only 110V electrically powered tools will be used on site. RCD's will also be used where appropriate.
- Parking of vehicles is only allowed in the areas specified.
- The canteen and toilets must be kept clean at all times.
- Smoking is only allowed in the designated areas (not in site

cabins or plots under construction)

- All persons on site are required to co-operate with site management on all matters concerning health and safety.
- No person will be allowed to work alone on site.
- Operators of plant and equipment must provide evidence of training and competence in the safe use of such plant and equipment and be authorised by site management.
- No persons under the age of 18 will be authorised to work on site without prior written agreement and Risk Assessments being undertaken by the Site Manager.

The above rules will be brought to the attention of the workforce during induction training

SITE FIRE PLAN

The enclosed Fire Plan template should be completed by the Site Manager to reflect the specific requirements of the site.

HOURS OF WORK

Mon – Fri	8:00am to 6:00pm
Saturday	8-30m to 14:00pm

Weekends
Only if authorised and supervised by a suitably qualified Bellway Staff Member (hours worked must comply with relevant Planning Conditions for the site).

EMERGENCY PROCEDURES

Full Site Address: Cavendish Road Didsbury
Site Telephone Number - TBC

Telephone Number **101 (non-emergency)**
999 (emergencies)

Ambulance:
Wythenshawe Hospital
Southmoor Road
Wythenshawe
Manchester
M23 9LT

DIAL 999

- Tell the operator which service you require
- Give the Site Telephone number
- Wait for the Emergency Service to answer
- Give the full Site Address
- Give any other necessary information

HEALTH & SAFETY EXECUTIVE - Telephone Number: - 0151 951 4000
Health & Safety – Claire Walker 07980 739245
Construction Director - Paul Wright 07976 949125

SECTION 3

ARRANGEMENTS FOR CONTROLLING SIGNIFICANT RISKS

DELIVERY AND STORAGE OF MATERIALS

Materials will be stored correctly in a central location, and valuable materials will be kept in a lockfast store.

WASTE

Site to be maintained in good order with clear pedestrian routes and access throughout the site. Waste Management (segregation) plan to be adhered to.

STABILITY OF STRUCTURES

Walls

Freestanding walls must be fitted with stays / bracing to provide stability.

Floors

All floor joists placed on metal hangers must be securely propped to prevent collapse

PREVENTING FALLS (Working at Height)

Scaffolding

Scaffolding with be erected to the requirements of TG20 13
Scaffolders will erect the scaffold following NASC guidance SG4:15
Scaffold type used on this site will be:

System Scaffolding

Flooring Works

A crash deck will be installed before any flooring work at height takes place including joist works and laying the floor sheets.

Roof works

Crash deck will be in place before any roof works are undertaken

Rendering

Suitable scaffold platforms will be provided for all rendering work at height

External cladding:

Suitable work platforms will be provided for all external cladding work.

Stairwells

Double handrails will be installed and screwed to newel posts/newel post protection and/or metal brackets which must be screwed to the floor (under no circumstances must temporary rails be attached to door frames or stud work.

Other Works at Height Identified:-

Work undertaken from step ladders / hop ups by contractors will be undertaken by trained operatives. All equipment will be fit for purpose and well maintained. Only class 1 industrial type step ladders will be used on site. Visual inspections will be undertaken before use of equipment and recorded inspections will be undertaken on a weekly basis. All operatives will use equipment in line with the manufacturer's guidelines. No over stretching is allowed and operatives must always have at least four steps in front of them and be short duration work. No wooden ladders are allowed to be used on site.

For the use of extension ladders the contractors will use a ladder stabilizing kit, ladder securing systems and belt restraints will be used. Safe working practices will be employed including the following measures: ladders will be at a 1 in 4 angle, 3 points of contact will be employed by operatives, no over stretching will be undertaken, operatives will always have a minimum of 4 rungs above them, the ladders will be well maintained and fit for the intended use, the site conditions will be safe including good ground conditions, safe access and egress. Ladders will be adequately secure at the top and the bottom. Operatives must be clipped on to ladders when they have reached the point of access. Work must short duration (e.g. maximum 30 minutes) and low risk activities. If works fall outside this then alternatives must be found (e.g. scaffold or MEWPs)
The Contractor will make assessments of the proximity hazards including for example overhead cables and traffic management and communicate this to the operative before ladder use is undertaken.

CONTROL OF LIFTING OPERATIONS

Mobile Cranes
All complex lifts to be carried out using a contract lift.

Straightforward lifts e.g. (trusses / small steel work etc)

- All lifting operations will be under the supervision of a crane co-ordinator.
- Loads for lifting must only be attached by a trained slinger / banksman
- A lifting plan must be drafted for all lifts other than by Forklift or delivery vehicle mounted cranes i.e. HIAB (which may only lift loads directly to the side of the delivery vehicle).

MAINTENANCE OF PLANT AND EQUIPMENT

In accordance with the Provision of Use of Work Equipment Regulations Lifting Operations and Lifting Equipment Regulations, all plant and equipment will be the subject of an inspection regime and records will be kept in Lifting and Operations Register.

All such inspections are to be carried out in accordance with relevant legislation, company procedures and manufacturer specific instructions (user manual).

TRAFFIC ROUTES AND SEGREGATION OF PEDESTRIANS FROM VEHICLES / PLANT

Please see planning conditions below for the site:

2.4 Construction Traffic Management Plan

2.4.1 Bellway Homes is developing a Construction Traffic Management Plan to be submitted and agreed with the Local Planning Authority prior to commencement of any work on site.

1) Prior to the commencement of any development a Construction Management Plan shall be submitted to and approved in writing by the City Council as local planning authority. The development shall

be implemented in accordance with the agreed Construction Management Plan and shall include:

- **The routing of construction traffic;**
- **The identification of the vehicular access points into the site for all construction traffic, staff vehicles and Heavy Goods Vehicles;**
- **Identify measures to control dust and mud on the surrounding public highway including: details of how the wheels of contractor's vehicles are to be cleaned during the construction period; - Specify the working hours for the site;**
- **The details of an emergency telephone contact number for the site contractor to be displayed in a publicly accessible location on the site from the commencement of development until construction works are complete - Identify advisory routes to and from the site for staff and HGVs;**
- **A Noise and Vibration section;**
- **A community consultation strategy which includes how and when local businesses and residents will be consulted on matters such out of hours works.**

It has been recognised a Traffic Management Plan is required for this development. The following information sets out how plant and vehicles will be managed on site. In addition, a site plan will be marked up showing traffic and pedestrian routes on site.

The access to this road must be communicated to all contractors and suppliers to this site. Signage will be fitted in the local area to communicate the site entrance.

The traffic plan issued by Bellway Homes will be revised and further developed to reflect current site conditions. The plan will be agreed with any other Site Developers (where access routes etc are shared). Review of Traffic Management arrangements will form part of the regular consortium meetings.

Site Parking

The parking of contractor's vehicles will be at the location indicated on the attached Traffic Management Plan. Vehicles should be so parked that they will not need to reverse into the site roads.

Parking will not be permitted inside either the construction area or

occupied sections of the site.

In order to ensure visiting members of the public do not need to drive within the construction area a carpark will be provided at the sales centre for their use.

A car park will be constructed on the site and be situated next to the site compound. This will allow parking for site operatives and visitors to site.

Rules: No parking on footpath

Construction Vehicle Movements

Site construction vehicles will only be operated / driven by those who hold a relevant certificate and or licence.
All equipment on site will be inspected, tested and serviced at the appropriate times as laid down by legislation and the manufacturer's instructions.

All construction vehicles / plant when not attended will be parked and immobilised with the keys removed.

Inspections and test certificates must be made available to the Site Manager and appointed Safety Advisor upon request.

Where construction vehicles are operating on roads to which the public has access then roof beacons / headlights will be used.

Mobile Plant and Equipment

It is the policy of Bellway Homes that

- All mobile plant on site will have audible reverse warning fitted
- All 360 excavators, forklifts and telehandlers are fitted with mirrors including side and tail mirrors or better to ensure good all round vision.
- All split chassis dump trucks are fitted with cameras to aid reversing on site.

Speed Limit

A maximum speed limit of **10 mph** will be set on this site, signs to be displayed.

Hazard Fencing

Where specific hazards may produce additional risks to the movement of site transport and pedestrians, they must wherever possible be protected by a physical barrier and high visibility plastic fencing. This will include scaffolding close to the road and excavations.

Pedestrian Access Routes
Pedestrian access routes will be marked on a plan and displayed on site. Crossing points across main site roads will be chosen to ensure maximum visibility.
Where necessary pedestrian routes will be marked off with fencing until the permanent footpaths have been installed.

Compound Areas
The compound area will have a separate pedestrian access and vehicle entrance.
Pedestrian access to the welfare cabins will be fenced off as necessary for safety reasons.

Material Delivery and Storage
All deliveries to the site will be made via

It will not be necessary to have a delivery waiting area.
Due to the site layout it will be necessary to use a Banksman to reverse delivery wagons into storage / off load area.
Where materials are delivered to the working area they must not be placed in such a position that they block access or pedestrian routes.
Groundworks Contractor will be responsible for ensuring their delivery vehicles are supervised when reversing into a storage or off load area.
Any loads above 1.2 metres that require access for slinging etc. must include fall protection.

Road Cleaning
Road cleaning will be done on a regular basis to ensure the site roads are safe as far as possible.

Vehicle Movement Restrictions

There are no restrictions on vehicle times other than normal site working hours.

Terrain

The terrain of this site due to the contours may present risks to plant overturning whilst operating on Site. A strict policy will be enforced to ensure plant is fitted with the required roll protection and that operators of equipment wear seatbelts at all times.

High Visibility Clothing
It is the policy of Bellway Homes that all Site Operatives wear Hi Viz clothing whilst out on site.

Monitoring and Control
It is the responsibility of the Site Manager and visiting Managers.

Supervisors appointed by contractors on site will ensure that persons working under their control comply with these requirements.

Additional Information

Induction
All persons working on site will be inducted in the relevant sections.

Site Entrance

Signs will be fitted in strategic areas to warn live traffic of the site entrance.

Banksmen will be employed when required to the site entrance.

HEALTH RISKS

MANUAL HANDLING
Kerbstones to be lifted and fitted mechanically.
Paving flags over 20kg to be fitted mechanically (900mm x 300mm paving slabs to be used).
Artstone

X To be reduced in size
√ Fitted with lifting aids to allow for mechanical handling

Bags of materials to be ordered in small units to aid handling.
Plasterboards to be moved mechanically whenever possible
Weyroc Flooring to be moved mechanically whenever possible in units.

USE OF HAZARDOUS SUBSTANCES
COSHH assessments must be available for all hazardous materials on site.

REDUCING NOISE AND VIBRATION

Plant / Equipment used on site will be checked to ensure the noise suppression equipment is maintained in good repair.
Equipment will be selected where possible with low levels of vibration.

DUST CONTROL OPERATIVES

Where possible dust will be suppressed by using the following methods:
Water suppression for concrete products.
Dust extraction for cutting / sanding of timber.
Dust masks must be used where the above controls are not suitable.
Dust masks must be used where the above controls are not suitable and be the correct standard of mask e.g. FFP3 for concrete products. All masks will require face fit testing specific to the operatives. Operatives must be clean shaven to use the masks or alternatives must be used. (air fed respirators)

EXPOSURE TO UV RADIATION

Warning notices to be displayed outlining the hazards of working in the sun.
A high factor sun block to be provided in the site toilet block.

ANY OTHER SIGNIFICANT RISKS

Electrical

All electrical work undertaken on site must be undertaken in accordance with the requirements of the BS7671 (IEE Wiring Regulations), The Electricity at Work Regulations 1989, HSG 85 – Electricity at Work, National Inspection Council for Electrical Installation Contracting (NICEIC), Safe isolation procedure produced by the Electrical Safety Council and all other relevant codes and standards.
All contractors must not cut or terminate any cable or service even if you believe them to be dead. Only authorised and competent Electricians are permitted to install, remove, dismantle, alter or maintain any electrical equipment, fixture or fitting in compliance with safe working practices and method statements. Do not tamper with electrical equipment.
All electricians who undertake electrical commissioning and testing should be competent and receive the correct amount of information, instruction, training and supervision for the work undertaken. The following arrangements are required:

Only work on or near live equipment should be undertaken only when it is absolutely necessary.
An electrician should know the maximum voltage that they are potentially exposed to.
Electricians should allow for any other people who may be exposed to risk. All works should never be left partially completed or un-supervised.
All testing equipment will comply with BS EN 61010-1.
Testing equipment will be well maintained and be calibrated in line the manufacturers recommendations. (Please see work equipment section).

Always ensure the insulation and wires to testing equipment is in good condition and free from any wear. This is critical as protects the individual from live electricity.

For installation of fixed electrical items not installed by the electrical contractor including fan hoods, cookers and white goods it is the installer's responsibility to have the installations checked by a competent electrical person.

Dust General

Dust will be controlled on site by using the following methods:

All contractors must comply with the HSE guidance CIS 36 Dust in construction.
Water suppression will be required for silica based products.
Dust extraction when practical for operation cleaning / cutting / sanding of timber etc. (m or H class).
Respirators will be required for all processes that generate dust. All respirators will require face fit testing specific to the operatives. All operatives must use the correct make and model of respirator that they have been previously tested for. Operatives must be clean shaven to ensure the respirator gives adequate protection.

For construction and plant activities that generate dusts control measures will be implemented including:

Using Road sweepers
Use water as a dust suppressant
Cutting equipment to use water as suppressant or suitable local exhaust ventilation systems

Securely covering skips

Protection of the Public:

The following measures will be implemented on site to protect the public:

Occupation will be phased to protect new occupied home owners.

Site Perimeter fencing will be installed.

Implementation of Authorization procedures for site activities.

Control measures with work activities making allowances for protection of the public. This will include all interactions with the public allowing for vulnerable groups (e.g. disabled and children).

Quarterly and as required letter drops to residents explaining works affecting them and program.

Continuous liaison with local residents to ensure measures are being correctly implemented.

Noise vibration and dust will be kept to a minimum and dust will be controlled with suppression using water suppression.

Ensuring all plant and equipment used which interacts with the public is fully controlled and only undertaken by authorized operatives along with banksmen.

Deliveries will be controlled and planned for and all plant activities will be supervised by trained banks men.

Any works on public highways will be undertaken in line with chapter 8 and relevant street works with the local authorities.

Ensuring all activities that may cause the risks of slips and trips are controlled accounting for members of the public using them. This includes children and disabled people.

Ensure on going assessments are made with the requirement to place security on site. This will account for local crime statistics, population and the incidents learned on site.

When working in occupied areas work in cooperation with the public to ensure joint control measures are implemented. This will include measures for emergency arrangements, controlling access of areas, communication and cooperation with existing on-site personnel.

SECTION 4

THE HEALTH AND SAFETY FILE

The standard Home Buyers Health & Safety Information will be issued to all clients by:

Name: _____

Position: _____

Any additional items will be added where it is felt necessary

NOTE: TO BE DECIDED AT PRE-START MEETING

HOUSETYPE	EXTRA INFORMATION TO BE SUPPLIED

SAFETY FILE compiled by:

Information to be included in safety file for Housing Association / Management Company

N/A

SAFETY FILE compiled by:

Information to be included in safety file for Local Authority:

N/A

Site safetyplan 0516

Construction Phase Environmental Plan

Surface Water Drainage

For Construction
Only ‘clean’ waters are expected to pass through the surface water system, and these should not contain hazardous substances. The surface water drainage system, including the oversize storage pipes, will not require lining.
Bellway will also include information in the Homeowners’ Pack regarding disposal of hazardous wastes and liquids to further reduce the risk of contamination after the construction phase.
This plan will take consideration of the significant risks to the site to reduce the risk of contamination:

- When refuelling
- When wheel-washing
- When washing concrete

Drainage will be controlled, and not be allowed to seep or wash away into the sub-surface. An Ultra De-Watering Bag will be used where natural filtration measures cannot cope with silt.

Groundwater Quality

The site traffic management plan will have all areas identified, to ensure the site management are aware of the risks, and the compound, storage, and re-fuelling areas are outside this area and identified on the plan.

Plant & Equipment Maintenance

Bellway will comply with the Provision and Use of Work Equipment Regulations 1998 (PUWER) and the Lifting Operations and Lifting Equipment Regulations 1998 (LOLER), and in so doing will:

a. Require the thorough inspection certificates for all plant on site;
b. Will ensure all plant is visually inspected upon receipt and on a weekly basis;
c. Will record the statutory weekly inspections in an appropriate register, which will be retained on site for the duration of the works, and archived for 3 years thereafter.
d. Will store all plant, equipment and fuel in bunded areas when not in use.

e. Will ensure the plant is serviced and maintained as determined by the competent operator, and this maintenance is recorded.
f. Will quarantine any plant deemed to be unfit for use in an area which is bunded and made up of hardstanding materials. Any quarantined plant or equipment must be removed from site within 48 hours.

In addition to these measures, all plant is to be steam-cleaned off-site prior to being brought to site. All bunds will have sufficient capacity to store 110% of the fuel/oil it stores. A spill kit will be located in the forklift, and a second in the compound.

Oils, Fuels, and Chemicals

Bellway's standard compound requires hardstanding for plant and material storage, a double bunded fuel store, which is also located on hardstanding, and an emergency spill kit (see Appendix 1).
Arrangements identified herein for the protection of the environment will also be identified on the traffic management plan, included in the site specific induction, signed in line with the Health and Safety (Safety Signs and Signals) Regulations 1996, and be located on site.
The compound also includes storage in the form of lockable containers which are fire and vandal-proof. The site will be fully enclosed in double-clipped heras fencing, braced in line with Bellway's Temporary Works procedures, and visually inspected on a regular basis (the frequency being no less than weekly, but more often if trespassers are regularly attempting to gain entry to site).
Any static oil storage containers will:

- Comply with EA documents: PPG2 – Above ground oil storage tanks, and PPG7 – The safe operation of refuelling facilities.
- Be no more than 2 years old at the time of installation.
- Be double-skinned with integral bunding, and be of sufficient strength and integrity as to ensure that they are unlikely to burst or leak.
- Be located on bunded, impervious hardstanding with a capacity of not less than 110% of the largest tank, or largest combined volume of connected tanks located within the area of bunded, impervious hardstanding. All rainwater accumulating in the bund must be removed. This waste will be treated as hazardous if contaminated with oil. Bellway use sand to soak up oil/fuel, and provide hazardous waste containers in the compound for such substances to be removed.

- Be positioned so that they are not vulnerable to impact from vehicles.
- Not be positioned within 10 metres of any watercourse.
- Have valves and other ancillary equipment that can be locked and kept within the bund when not in use.
- Have hoses and fittings (for filling vehicles etc) that have a valve or tap which closes automatically when not in use. This cannot be fixed in the open position.

Plant refuelling and fuel deliveries must:

- Only be carried out by authorised and trained operatives
- Only be carried out within the designated compound, with a base surface in impermeable material.
- Comply with guidance provided in section of 7.3 of the EA document: PPG7 – The safe operation of refuelling facilities.

Bellway will not store in excess of 10 litres of oil or fuel in a portable container. The use of Mobile Fuel Bowsers is not permitted on this site. All other chemicals, substances and hazardous materials will be documented within the Construction Phase Health and Safety Plan, their data sheets and COSHH assessments available, and locked in an appropriate container to prevent unauthorised discharge or use. Bellway use and store LPG and flammable liquids on site. We shall ensure:

- Storage areas are appropriately signed.
- Containers of flammable liquids and LPG cylinders are in suitable cages in open compounds which are securely fenced and shaded from the sun.
- Flammable liquids and LPG are not stored together.
- The amount of flammable liquids and LPG cylinders is appropriate for their use and storage facilities available. Excessive quantities will not be stored on site.
- They are at least 10 metres away from any structure or temporary building unless it has a 30 minutes' fire resistance.

Emergency Procedures

In the event of a significant spill Bellway's Environmental Emergency Preparedness and Response Procedures must be enacted, which includes assessing the spill, isolating, containing and absorbing the spill, disposing of the waste materials, reordering the spill kits used, and

contacting the authorities. As a minimum the following must be contacted:

- The Environment Agency – Tel 0800 80 70 60 (24 hour)
- Bellway Regional Office – 01925 882900
- Environmental Health comm@cheshire.gov.uk.

Bellway's Environmental Emergency Preparedness and Response Procedures forms the basis for the Spill Response Plan and must be approved by the Local Planning Authority before work commences (Appendix 2). A covering page is to be attached including:

- Site address
- Location of spill response equipment
- Information on trained and/or competent person(s) to use the spill response equipment
- Emergency contact details (as above)

A minimum of the Site Manager and the ground works Supervisor are to be trained in emergency response. Their training records are to be added to this Plan and a prominent sign with their names on displayed in the welfare facilities.
All personnel are to be made aware of the environmental risks of the site during their induction, which includes the identity of the spill response competent people.

Silt Management Plan

Surface waters generated on site must not be discharged to ground. Bellway will undertake regular toolbox talks on silt management for all staff, particularly ground workers. The induction will also include the necessary measures required to protect the environment from silt. Where the natural filtration of the overflow dry detention basin does not filter the silt sufficiently, Ultra De-Watering Bags can be used to remove excess silt. Where the silt is excessive outside the winter months, a qualified Environmental Consultant will be employed to provide advice. Soil bunds with straw fence 'gates' will be used to direct surface water run-off and reduce the risk of silt contamination. Bellway's traffic management plan and route of build will reduce the movement of plant to prevent tracking mud into clean areas, onto roads, and onto highways. Road scraping and cleaning will be undertaken on site with the use of existing site plant. Highways will be cleaned with a hosepipe to reduce the risk of restricting traffic movements on the highway. Gullies on newly constructed roads that are in the work area will have straw and terram within to also control silt entering the watercourse. They will be inspected and replaced as necessary. Hardstanding is created in front of plots at

an early stage to create ‘clean’ material storage for the forklift, to improve the street-scene and to reduce the risk of slips, trips and falls. Inspection regimes of gullies, silt bunds, hay bales and manholes forms part of the Temporary Works procedures and will be undertaken weekly.

8. Dust

The dust nuisance has been assessed and found to be low in both in terms of risk and potential. However, the following must occur for this assessment to be correct:

a. Any haul roads are to be constructed of crushed hardcore material and formed at all early stage.
b. Roads are to be constructed, with gullies, at an early stage.
c. Speed is to be restricted to 10 mph.
d. Damping down with a hosepipe is required in hot weather.
e. Dust suppression is to be used when cutting materials such as bricks, blocks, roof tiles, concrete etc., and operatives are to wear appropriate PPE, as per Bellway procedures.
f. Exhaust pipes of machinery are to be directed away from the ground.

All of the above will be undertaken line with the following guidance

- The control of dust and emissions from construction and Demolition. Best Practice Guide. November 2006. London Councils.
- Institute of Air Quality management - Guidance on the assessment of dust from demolition and construction 2014.
- Institute of Air Quality Management - Guidance on Air Quality Monitoring in the vicinity of demolition and construction sites 2014.

Noise & Vibration

Noise

All site activities will be under taken in line with **BS 5228:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites for the construction activities**.

In particular:

Community Relations

Local residents will be informed of relevant construction activities to reduce any concerns. An appointed person will be allocated to keep people informed and deal with any complaints. These will be treated fairly and expeditiously.

Control of Noise at source

The following measures will be implemented to reduce noise at source

- Avoid unnecessary revving of engines and switch off equipment when not required;
- Keep internal haul routes well maintained and avoid steep gradients;
- Minimize drop height of materials.
- Start-up plant and vehicles sequentially rather than all together.
- All vehicles must have appropriate silencers or mufflers where possible, which are regularly serviced and maintained.

Specification and substitution
On procurement, the quietest available plant will be assessed this will be in accordance with best practical means.
Enclosures
As far as reasonably practicable, sources of significant noise will be enclosed. The extent to which this can be done depends on the nature of the machine or process to be enclosed and their ventilation requirements. This will be assessed and measures implemented for the site compound and welfare arrangements on this site
Use and siting of equipment
Plant will always be used in accordance with manufacturers' instructions. Care will be taken to site equipment away from noise-sensitive areas. Where possible, loading and unloading will also be carried out away from such areas. Machines will not be left running unnecessarily, as this can be noisy and wastes energy
Maintenance
Regular and effective maintenance by trained personnel is essential and will do much to reduce noise from plant and machinery. Increases in plant noise are often indicative of future mechanical failure.

Controlling the spread of noise

Distance and screening will be implemented where reasonable practicable to reduce noise in noise sensitive areas. This can be achieved by the careful location of welfare and office facilities and material storage areas. This will be assessed and implemented for this site.
Noise control targets
Monitoring of noise at sites where noise is an issue should be regarded as essential. Measurement may be carried out for a number of reasons, including the following:
a) to allow the performance of noise control measures to be assessed;
b) to ascertain noise from items of plant for planning purposes;

c) to provide confirmation that planning requirements have been complied with.
An assessment will be made on this site and noise monitoring will be undertaken if required.
The above guidance is not extensive on this site to complying with **BS 5228:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites for the construction activities**.
Continuous monitoring of compliance will be undertaken through the development life cycle and necessary revisions will be implemented when highlighted.
Vibration
All site activities will be undertaken in line with **BS 5228:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites for the construction activities**.
In particular:
Community Relations
Local residents will be informed of relevant construction activities to reduce any concerns. An appointed person will be allocated to keep people informed and deal with any complaints. These will be treated fairly and expeditiously.
Control of Vibration
The following measures will be implemented on site:
Vibration isolation of plant at source
Controlling the spread of vibration
Implementation of vibration control targets
Reducing vibration levels by the energy of blows or cycles. The distance between source and receiver.
Assessing the ground conditions established from remediation activities to reduce vibration levels.
Selection of vibration levels
Removing underground obstructions
Reduction of resistance to penetrate and pre driven bored for driven piles.
All of the above will be assessed and implemented through the design process and assessment of the piling contractor used for this development.
The above guidance is not extensive on this site to complying with **BS 5228:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites for the construction activities**.
Continuous monitoring of compliance will be undertaken through the development life cycle and necessary revisions will be implemented when highlighted.

Fire

Bellway undertake a fire risk assessment for every site. Initial risk assessment has determined this site to be low in terms of both risk and potential. However, a designated smoking area will be provided in the compound, hot works permits are to be used for soldering operations by the plumbers, and the road surfacing works are to use a controlled fire for heating rakes where required. This is also subject to hot works permits.

NO BURNING IS ALLOWED ON SITE UNDER ANY CIRCUMSTANCES.

Recycling / Disposal of Waste

The Bellway Site Waste Management Plan will be documented and maintained on site. The purpose of the plan is to initially reduce the waste being generated on site through improved planning, buying and design. However, it will also be used to document the method and manner of waste management on site, and will be available to the Environment Agency upon request.

Impact on Wildlife

Please see Habitat Creation and Management Plan which includes details on the impact to wildlife.

Communication

Prior to the commencement of development this plan and that of the Ground Worker will be submitted to the Local Authority for approval. The plans will be communicated to the workforce through initial site induction and toolbox talks by the site management, and are subject to regular review.
Prior material and subcontractor orders will make reference to relevant parts of the plan.

Site Security

The site security arrangements will take consideration of the environmental risks identified in this plan, and the control measures therein.

Site Welfare Facilities

Bellway's standard compound set-up will be used on this site, a copy of the plan will be recorded in the plan. It will ensure storage, fuel and chemicals are not stored near watercourses and the waste water is disposed of appropriately, not discharged to ground.

Stockpiling of Soil & Aggregates

Where stockpiling of excess soil or aggregates it may be necessary to create a bund around them or cover them in wet weather to prevent excess silt becoming a problem. This will be determined and managed through the course of the construction as and where necessary.

Working times

Monday to Friday 08:00 to 18:00 and Saturday working 08-30-14-00. No work on Sunday or Bank Holiday.

References

Health & Safety at Work Act 1974.
GS29 Parts 1-4-7-8.
The Provision and use of Work Equipment Regulations 1998.
The Management of Health & Safety Regulations 1999.
Legislation relating to hazardous materials COSHH Regulations 2002.
The Construction (Design & Management) Regulations 2015.
HSE information notes GS 29 Parts 1 – 4.
The Party Wall Act 1996.
The Lifting Operations and Lifting Equipment Regulations 1998.
The Work at Height Regulations 2009.
The Control of Noise at Work Regulations 2005.
The control of dust and emissions from construction and Demolition.
Best Practice Guide. November 2006. London Councils.
Institute of Air Quality management - Guidance on the assessment of dust from demolition and construction 2014.
Institute of Air Quality Management - Guidance on Air Quality Monitoring in the vicinity of demolition and construction sites 2014.
Environmental Protection Act 1990.
Control of Pollution Act 1974
BS 5228:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites for the construction activities.