BDB DESIGN BUILD

BUILDING CONTRACTORS

Construction Environmental Management Plan (CEMP)

For the project at

CMS Rockingham,

Dearne Valley Parkway,

Kestral Way,

Birdwell,

Barnsley,

S70 5SZ

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Revision: 01

Contents

1 – Introduction to the project

The proposed development involves the construction of 7no. commercial units with new access roads, service yards, parking areas and peripheral soft landscaping.

Site Location
The site is located to the west of A6195 Dearne Valley Parkway and north of Junction 36 of the M1 Motorway and is accessible from Kestral Way to the north of the site.

The address for the site is as follows:
Dearne Valley Parkway
Kestral Way
Birdwell
Barnsley
S70 5SZ

This Construction Environmental Management Plan is submitted to seek to discharge Condition 8. The Construction Environmental Management Plan shall be in place for the duration of the project. Its requirements, in additional to all other health, safety and environmental legislation shall be adhered to at all times during construction.

A site location plan is located in Appendix A

2) Hours of Work

No noisy works are permitted on Sundays and Bank Holidays or outside of the following time period: -
Monday-Friday – 08:00 to 18:00hrs.
Saturday 09:00 – 13:00. (Where Applicable).
(No works permitted on Sundays, Bank and Public Holidays)

Contact details of the site manager will be provided/displayed on the site perimeter for out of hours contact. The above hours of work also extend to include deliveries and collections from site.

3) Planning Condition

Application Number – 2023/0815, Condition 8.

Prior to the commencement of development, a Construction Environmental Management Plan (CEMP) shall be submitted to the local planning authority and agreed in writing by Natural England. The development shall then be carried out in accordance with that document in addition to the submitted preliminary ecological appraisal.

Reason: In the interests are protecting the ecological value at nearby SSSIs.

4) Environmental Management

a. Introduction

Specific environmental management procedures including method statements and environmental risk management strategies will be in place throughout the construction phase. These will reflect the requirements of this CEMP. These will include monitoring, improvement efforts and review mechanisms. Addressing environmental issues at an early stage in project planning is vital for successful minimisation of environmental impact. Environmental impact minimisation will be actively pursued throughout the project planning stage and during construction works. The objectives of the

environmental management procedures will be to avoid or minimise any potential impacts, comply with each environmental commitment and follow best practice. These specific management procedures will be detailed within the CEMP and will relate to the various environmental topics covered by the Planning Condition.

All works will be undertaken to current Guidance for Pollution Prevention during the construction phase, which will include:

- Develop a Pollution Prevention Plan, including spillage response measures, prior to construction;
- Prepare appropriate method statements for working with and storing oils and chemicals during construction in line with the requirements of the Control of Pollution (Oil Storage) Regulations 2001;
- Contractor to implement the approved Construction Environmental Management Plan;
- Contractors to undertake construction work to best practice standards.

b. Pollution

The site must comply and follow the published guidance by The Institute of Air Quality Management (IAQM) on how to assess impacts of emissions of dust from demolition and construction sites.

Contractors and visitors will actively be encouraged to utilise public transport, car sharing and cycling. Timetables and routes for public transport and cycle routes will be displayed on noticeboards on and off site. This information will be provided to all subcontractors at the earliest opportunity along with suggestions on ways to reduce congestion as part of the subcontractor's order package.

Deliveries will be pre-planned to ensure they are made outside of peak hours (8.15am-9am and 2.45-4pm) at all times and to also ensure only that one vehicle will be on site at any one time. All vehicles shall have their engines switched off while not in use to avoid idling and any vehicles carrying waste and dusty materials will be adequately sheeted or covered. The site will be kept in good order with regular site monitoring taking place. If required a basic generator will be used for the cabin only and will be used during normal working hours only. In addition, all external works will be undertaken during natural light, so no external lighting will be required.

Adequately bunded and secure impermeable areas will be available for temporary storage of fuels, chemicals and to refuelling all plant. Spill kits will be provided within close proximity to fuel and oil storage areas and operatives will be trained in their use. All plant and machinery will be inspected daily and as part of this, checks will be made for any leaks, drips and spills. Drip trays to collect leaks, plant nappies will be available on site.

Storage areas will not be located within 10m of the watercourse or highway gully. Mobile bowsers will be bunded and will comply with the Control of Pollution (Oil Storage) (England) Regulations 2001 and will be locked when not in use. Drums will be stored in bunded areas with a minimum capacity of 25% of the total volume contained within the bund, or 110% of the largest container, whichever is greater. Drums will be maintained in good condition, fitted with lids and labelled to indicate the contents. Static combustion engine plant (e.g. compressors, lighting sets) will be integrally bunded or placed on drip trays.

Trained operatives only will carry out refuelling of plant and equipment. Contact will be made with Yorkshire Water (0345 120 8482) and Environment Agency if spillages do occur. The Environment Agency incident hotline number is 0800 80 70 60.

c. Dust

Dampening down will take place during all site activities including demolition that have the potential to create dust and during windy or dry weather, damping sprays will be used to prevent dust from causing nuisance to neighbouring premises. All mechanical cutting and grinding will be done in conjunction with water suppression or local exhaust ventilation system.

Where there is visual evidence of airborne dust from the activities on the site, the contractor will carry out an assessment and where necessary undertake ambient monitoring to identify those activities creating dust above acceptable levels.

Work areas will be suitably and sufficiently enclosed using temporary screens to prevent transition of dust to other areas. Tasks producing dust will be identified and control measures included within task specific risk and method statements. Before works commence we shall look at ways to reduce the amount of dust created; this will include reducing cutting of materials, using a less powerful tool or a different method of work when possible. In addition, dust extraction/on tool extraction/local exhaust ventilation and/or water suppression techniques shall be used.

d. Noise

Where the operational risk levels illustrated within The Control of Noise at Work Regulations 2005 could be exceeded, the precautions set out to eliminate or reduce noise levels are to be implemented.

1. Assess the risks to employees from noise at work.
2. Take action to reduce the noise exposure that produces risks.
3. Provide employees with hearing protection where noise levels cannot be reduced.
4. Make sure the legal limits on noise exposure are not exceeded.
5. Provide employees with information and training on how to mitigate and manage their own risk.

Details of maximum exposure times are to be conveyed to the relevant site personnel and strictly adhered to.

All necessary management and operational controls will be implemented to minimise any adverse effects from site activities on sensitive receptors. The necessary control measures are to be proposed by each subcontractor and reviewed pre-commencement. The control measures will be the best practicable means to reduce noise levels and will control noise at source wherever possible. Where possible, noise generating operations will be sited away from sensitive receptors.

All vehicles and mechanical plant used for the purpose of the works will be fitted with effective exhaust silencers and will be maintained in good and efficient working order. All pneumatic percussive tools will be fitted with mufflers or silencers of the type recommended by the manufacturers. The movement of plant onto and around the site should have regard to the normal operating hours of the site. All vehicles, plant and equipment will switch off engines when not in use.

Where break out of the hard standing is required operators of tools will wear the correct ear protection. Machines used intermittently will be shut down in the intervening periods between operations or throttled down to a minimum. All plant will have an in date thorough examination certificate.

Loading and unloading of vehicles, dismantling of site equipment and removal of waste shall be conducted in such a manner that noise generated is kept to a minimum. Where possible, materials will be laid down rather than dropped.

e. Vibration

The maximum level of vibration at construction sites will be required to meet the criterion set out in BS 5228-2:2009 as 0.3mm/s. Vibration monitoring equipment will be used during specified activities that may approach raised levels at the sensitive receptors so they can be dealt with in a satisfactory way. Established alternative processes to avoid/reduce use of vibrating equipment will be considered at all times.

If vibration at a sensitive receptor is possible, such as in this instance properties and it is suggested that it is likely to exceed 0.3mm s^{1}, the sensitive receptor shall be pre-notified, in writing, at least 5 full working days prior to work commencing, with the following information:

Location – the location on site in relation to the sensitive receptor;

- Duration of those site operations, including schedule of operations likely to cause any further vibration and their hours of work;
- Vibration characteristics – e.g. whether it is continuous, intermittent or impulsive;
- Effect on buildings – it is important to assure the community that vibration levels will not cause building damage;
- Details of site operator community liaison – so that the community feels assured that information is available and that complaints will be handled expeditiously

f. Surface/Storm Water

A Proposed Drainage Plan (Appendix B - Y22018-D200-PROPOSED DRAINAGE-Rev6) for the project have been submitted.

Daily monitoring will take place to ensure water is controlled within the site confines. The Project management team & Site Manager will have daily access to weather reports from the Environment Agency's Flood Warning Service https://www.gov.uk/sign-up-for-flood-warnings and the Met Office severe weather warning alert service https://service.govdelivery.com/accounts/UKMETOFFICE/subscriber/new.

Where a flood warning is received the entire site will be placed on attentive alert for potential evacuation based on the alert type and affected areas of the site. The evacuation routes would follow routes drawn up on the site logistics plan/construction surface water management plan, plant, equipment and materials will be relocated where safe to do so to locations that are considered to be out of the likely flood impact levels.

Prior to commencement on site any existing drainage covers that are not being retained or are outlets to the main sewer systems will be lifted and a layer of permeable geotextile (terram 1000 gauge) will be placed on the concrete slab and over the opening before the covers are replaced. The geotextile will sit in between the straw and the gulley cover. The geotextile will surround the drainage cover by approximately 2m diameter.

On top of the geotextile prior to the re-placement of the drainage/ gulley covers oil absorbent pads will be placed to mitigate the potential for hydrocarbon impacted fluids to enter the surface water or foul water courses should any hydraulic spills occur on site. Surrounding each drainage cover sat on the geotextile will be a small bund of 10mm clean stone (no fines) wrapped in geotextile.

Should any rain/dust suppression be required during the earthworks activities and wash such materials towards the drainage network the measures detailed above would prevent particles from being discharged at elevated levels off site. On a regular basis the accumulated sand around the geotextile filtration system will be removed and the site surface swept clean. The site drainage covers will be lifted on a regular basis to ensure the filtration system is working effectively. The oil absorbent mats and the geotextile within the drains will be replaced/ cleaned as required.

g. Waste Management

Segregated waste skips will be provided on site and copies of waste transfer notes retained.

Health, safety and environmental procedures which involve processes for site cleansing, rubbish removal and recycling to reduce and manage site waste include:

- Ensure that all material removed from site is taken to waste recycling stations and separated for recycling where possible. Records of the waste recycling will be provided by the recycling stations.
- Segregate waste types to facilitate recycling activities.
- Ensuring that all Duty of Care and other legal requirements are complied with during the disposal of wastes.
- Consulting with suppliers to determine correct / appropriate disposal routes for waste products and containers.
- It will be the responsibility of each contractor to keep the site area under his control safe from build-up of rubbish.
- Continual monitoring of litter (particularly wind blown litter will be undertaken to ensure items are collected and not transferred to surrounding areas.

Site waste management procedure will be compiled and implemented in accordance with Environmental Regulations. This will include the following initiatives:

Design Waste Out:

- Tighter control of material ordering
- Designing standard materials modules where possible
- The use of prefabricated materials e.g. concrete slabs avoiding onsite inefficiencies
- Avoiding deleterious materials
- Educating site operatives on waste reduction
- Using materials with a longer usable life e.g. retarders in mortar and concrete

Reuse Materials:

- Reuse pallets, tubs etc
- Reuse timber offcuts

Recycle:

- Selecting materials with recycled content
- Timber and Metal from segregated will be recycled externally

No burning of any materials will be permitted on site.

Any land that is affected by contamination, whether or not identified under the regulations, may require measures to prevent contamination being activated or spread when building takes place.

h. Tree Protection

Tree protective measures will be deployed across the site in conjunction with the Arboricultural survey report already submitted as part of the planning application. Tree protection fencing must be installed as per the Tree Protection Plan (Appendix C) before any works on site can be undertaken. The fencing should be set out as per Section 6.2 of BS5837; 2012. The fenced off areas will be designated as 'construction exclusion zones'. With all weather notices, A4 size, attached to the tree protection fencing every 10m at 1.5m high.

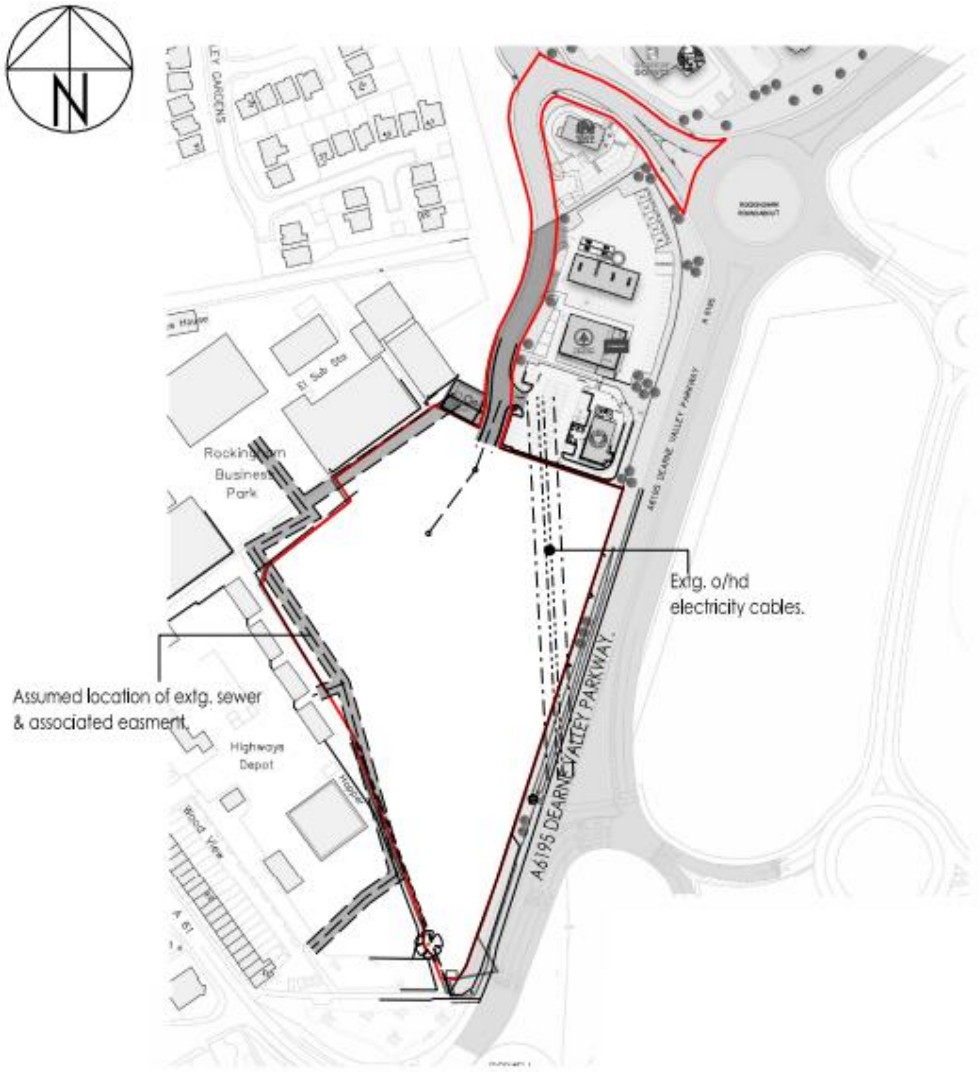
Measures to avoid storage of materials and plant adjacent to the tree protection zones will be in place throughout the construction period. This information will be given to contractors as part of the induction process and via toolbox talks by the site manager. The site manager to carry out daily checks of tree protection fencing. Any damage to be rectified immediately.

The development includes the implementation of the construction of the car parking and bin storage areas. In these location, low impact installation methods will be utilised and any ground preparation works will be carried out under arboricultural supervision to ensure the relevant best practice guidance is followed.

i. Bat Boxes

A Bat assessment is yet to be undertaken and will be done during the early construction phase. Tree protective measures (highlight above) is to be in place around these areas until such time this has been completed.

Appendix A – Site Location Plan



Note. This drawing is based on the topographical survey, by Ramowski Clarke Ltd, ref. 3508-02-b, dated 05/23

This darwing is subject to Client & Planning approval.

Site boundary line to be confirmed.

In accordance with CDM Regulations 7, 11 and 18, any significant risks (as defined in the Approved Code of Practice paragraph 130) relating to the design features shown on this drawing have been identified and are annotated thus:

☒ No significant risks have been identified.

☐ Significant risks have been identified - refer to notes on drawing for information on residual risks and any control measures to be employed.

Refer to the current Designer's Risk Assessment sheets for further detail.

Designer's Signature | Date

Rev.	Description	Vfd	Date
P1	Issued for Information.	SW	02/22
P2	Plan updated.	SW	06/22
P3	Plan & red line updated.	SW	07/23

Project: Proposed Development, Rockingham.

Client: Camell Management Services Ltd.

Title: Red Line Plan.

Drawing Status: PLANNING.

Project Ref.	Drawn	Date	Scale
12215	SW	Feb. '22	1:2500 @A4

Drawing/Document Reference: 12215 – WMS – XX – XX – DR – A – 10004 – SB – P3

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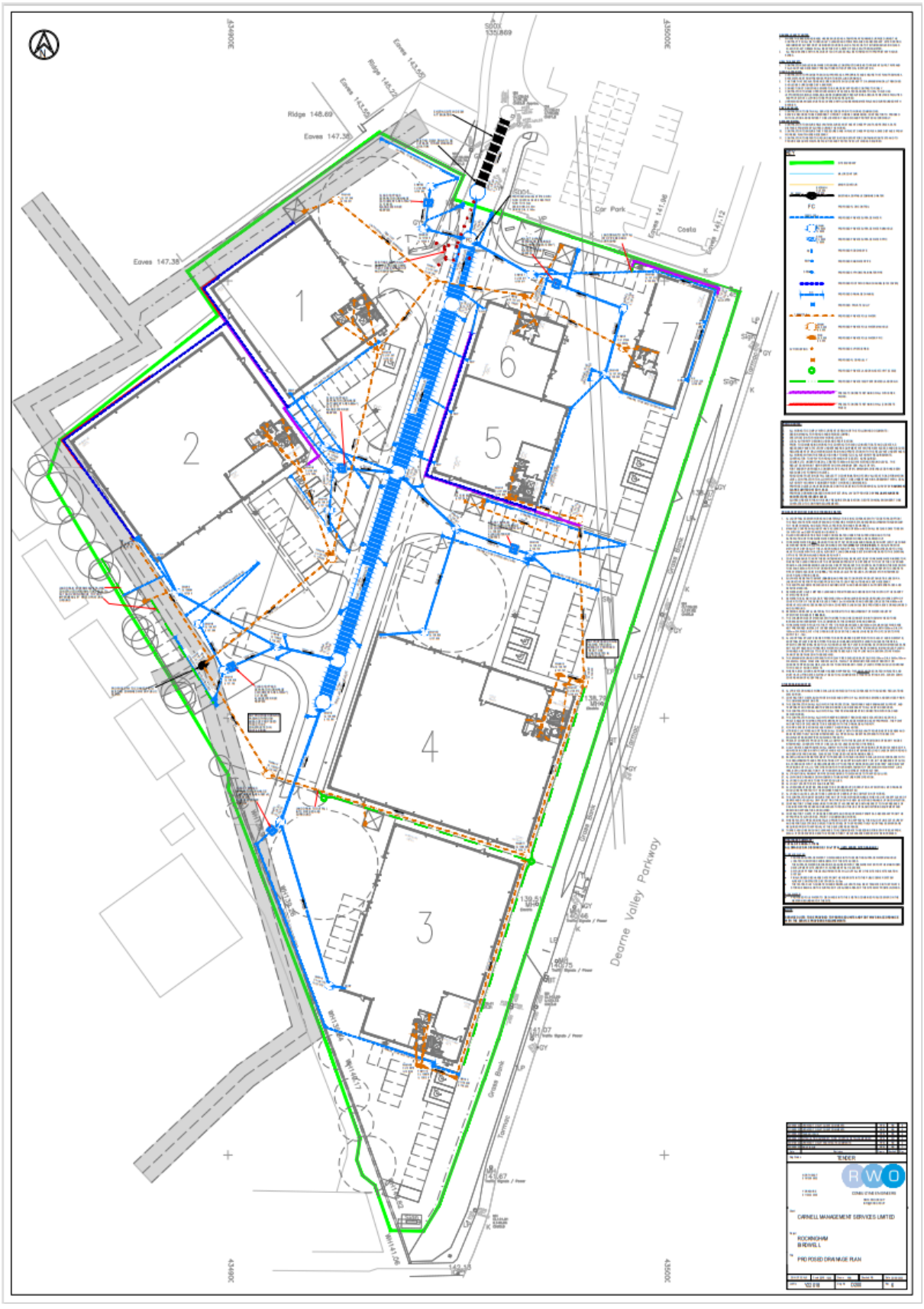
Appendix B - Y22018-D200-PROPOSED DRAINAGE-Rev6



Appendix C – Tree Protection SF3387 AIA01 Rev D