

Hertfordshire Constabulary Headquarters Redevelopment

Waste Management

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Quality Information

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1.0 Introduction

Policy R5 Waste Management of the adopted Development Plan

“The Council will require applications for larger schemes to include details of the measures to be taken in the design, construction, operation, occupation and demolition of existing buildings on site to:

- I. Minimise the amount of waste generated;*
- II. Re-use or re-cycle suitable waste materials generated;*
- III. Minimise the pollution potential of unavoidable waste;*
- IV. Treat and dispose of the remaining waste in an environmentally acceptable manner; and*
- V. To maximise utilisation of appropriate secondary construction materials, including recycled aggregates.*

- 1.1. Hertfordshire Constabulary are aware of their responsibilities regarding Waste Management throughout all aspects of this redevelopment programme. The client is keen to ensure that the professional team of consultants understand and address issues of Waste Management throughout the design and construction phase of the project. The client team will only appoint demolition contractors and main contractors that have policies and practices in place, appropriate for this size of development. Following the completion of the project and throughout the life of the buildings, the Police are also aware of their own responsibilities in relation to Waste Management. Throughout this paper, we will consider how each discipline of designers, contractors, or end users will address the issue of Waste Management.

2.0 Design

- 2.1. As set out in the Design and Access Statement, this is a large redevelopment programme involving the demolition of 11 buildings of varying sizes and the construction of over 13,000sqm of gross internal floor area (GIFA) principally for office accommodation. The client requirements have stated the need for the Architects and consultant team to address issues associated with Waste Management and ensure that they are imbedded within the approach and specifications required to appoint appropriate contractors for this project.
- 2.2. Throughout this redevelopment project, the site will remain a fully operational Police site throughout the construction programme, although this does not directly impact on the waste management policies, the longevity of the build programme and the various phases will have to be carefully considered in this context. The project is broken down into three principal phases, the initial site clearance and demolition of the 4 buildings to make way for the Decant Building, the construction of some small ancillary buildings, Estates and Facilities and Dog Welfare and Kennels will be constructed within this first phase. The second phase will involve the major demolition programme, the removal of all the large office buildings within the central zone to make way for the new HQ Building. The final phase will involve the demolition of the Hertford, Hitchin and Decorum buildings making way for new car parking and landscaped areas. This phased development will cover a 4/5 year period from inception of the construction work through to practical completion and handover.
- 2.3. As Architects, we will ensure that the correct specifications are prepared and are in place for the various demolition and main contractors that will be tendering the project. We will undertake due diligence to ensure the proposed contractors are appropriate in terms of size, experience, health & safety and have in place appropriate Waste Management strategies for this type of contract. Also, part of the due-diligence exercise will require evidence and an explanation as to how the successful contractor will address issues associated with Waste Management. We will be particularly interested in how the contractors deal with the separation and segregation of inert and contaminated waste materials and products. We will want to understand how the demolition contractors deal with asbestos removal and ensure that any deleterious materials are removed from site and processed in a safe and environmentally appropriate manner. Also, part of the tender documentation we will identify materials that can be reclaimed and reused on site throughout the construction phase, for example: The demolition programme will involve the removal of numerous conventional construction materials, brick, block, concrete and steel work, we will need to understand how each of these materials are going to be treated and disposed of in an environmentally safe manner. We will also be looking to reuse and recycle some materials on site, for example if commercially viable, we will be looking at crushing machinery that can reduce inert products that can be reused for sub-base material on the project.

- 2.4. Throughout the construction phase, it will be the Architects and Principal Designers responsibility to ensure all the requirements set out in the contract documentation are adhered to and maintained throughout the build programme. To ensure correct procedures are in place regarding Waste Management, we will monitor the contractor's activity by receiving monthly site reports, agenda items at the monthly progress meeting and regular site inspections throughout the construction phase. These reviews and inspections will continue throughout the construction programme through to satisfactory conclusion of the defect's liability period a year after Practical Completion and handover.

3.0 Demolition

- 3.1. The successful Demolition Contractor will have to have all the appropriate requirements in place to deal with the control and processing of Waste Management to be seriously considered for this project. The Demolition Contractor will have to demonstrate and set out to the Architect how they are going to deal with inert and deleterious materials on site. As part of their tender submission, they will have to identify how each waste product is going to be treated, either be safely removed, reclaimed and reused on this site or moved to another site that has complementary requirements. The demolition contractor will answer to the main contractor who will in turn report to the Architect and Contract Administrator (CA). This programme of supervision as set out in the Design section will continue throughout the demolition programme.

4.0 Construction

- 4.1. Like the demolition contractor, the Main Contractor will have to meet all the requirements and practices as set out within the contract documentation to ensure full compliance with their approach and methodology to Waste Management. Throughout the initial expression of interest, tendering, interview and negotiation phases, the Main Contractor will need to clearly demonstrate and provide supporting evidence that full compliance with Waste Management matters can satisfactorily be achieved. Only when the client and the professional team are satisfied that the contractor meets all the requirements will they be appointed.
- 4.2. The Main Contractor will be responsible for identifying and segregating all construction waste products, plasterboard, cementitious products, timber, steel, plastics and electrical wiring materials. Any deleterious material found throughout the construction phase will need to be reported to the CA and a method statement prepared explaining how the products will be dealt with in an environmentally safe manner. In liaison with the consultant team, the Main Contractor will be looking at ways to retain and recycle materials from the demolition phase of the project, crushed aggregates that can be used for sub-base materials. In discussion with the consultant and client team, the Main Contractor will be considering ways of retaining clean spoil on site avoiding any unnecessary removal costs. Any contaminated materials that are identified, will have to be isolated and removed to a registered and licensed waste processing plant for safe treatment.
- 4.3. As set out in the design section, the control and reporting of all Waste Management issues will have to be carefully considered and reported throughout the construction phase of the project. All members of the design, client and contracting teams have a responsibility to deal with the disposal of waste in a responsible and safe manner.

5.0 Occupation

- 5.1. Following the completion of the project and the successful conclusion of all defects, the new building and the responsibility of the site will return to Herts Police. The current HQ site does not handle large amounts of waste product and this is not envisaged to change following the redevelopment programme.
- 5.2. The principal waste product that the police will have to deal with is packaging, cardboard and plastic wrapping. With 'Climate Change' high on the national agenda, the production of waste bi-products and packaging will reduce over the coming years and manufacturers will be encouraged to avoid making unnecessary packaging. In the meantime, the client's approach to Waste Management will be as follows:
- Mitigation: Avoid any unnecessary packing and bi-products arriving on site by encouraging supply chains to consider better and more environmentally effective ways of protecting materials arriving on site.
 - Management: Once waste products have arrived on site, they will be dealt with by segregation into different reciprocals ready for recycling or removal from site. The client has identified a central area on the site that will be used for the collection, segregation and disposal of bi-products.
 - Recycled: It will be the responsibility of the Estates and Facilities team to ensure as much of the waste products that arrive on site can be recycled and up cycled if possible. The client team will work with supply chains seeking to find packaging that is environmentally considered and can be recycled. The objective will be to avoid unnecessary plastic wrapping and non-bio-degradable products.
 - Non-bio-gradable waste: These products will have to be collected at the central waste area and collected by licensed and registered companies that deal with waste products.
 - Bio-gradable waste: There will be bio-gradable food waste generated from the catering and kitchen areas associated with the main HQ building. Once again, these waste products will be recycled or removed from site. Natural waste and unprocessed vegetable waste will be retained on site and turned into compost for landscape areas around the site. Prepared waste will be removed from site and sent to process areas farms for feeding live stock.
- 5.3. High on the client's agenda is the need to address Well-being throughout their HQ operation and ultimately all Hertfordshire Constabulary. This is a life-style approach to work and the environment as part of this ethos is the carefully consideration to Waste Management.

6.0 Conclusion

- 6.1. As illustrated within this report, the matter of Waste Management has been taken seriously in the evolution of this project. The client promotes the need to minimise waste and where unavoidable to ensure the waste products are being dealt with in a responsible fashion. As demonstrated, the approach to Waste Management has been considered throughout all phases of this project from the client, the designers, the demolition, the main contractor and the operation of the site approach to handling and treating waste material. 'Climate change' is finally a meaningful and serious consideration that society has a responsibility to address in the short and long term. The treatment of Waste Management has and will continue to be addressed throughout this redevelopment project and beyond.

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