

Appendix A Design Update 01, February 2025

June 2025 Document Ref: CP3_R02

Design Update Request/Notification

Summary of request/notification

Since the Order was Made, the Developer and their (preferred) EPC Contractor have undertaken an initial design review of the EfW CHP Facility. This exercise has led (in part) to a reduction in the volume and footprint of the buildings and structures. The Developer has undertaken an assessment to ensure the proposed design updates are within the scope of the Order and do not introduce any consequential material effects to the project mitigation and would not cause any new or materially different environmental effects. To advance the detailed design process and prior to submitting final details pursuant to Order Requirement 2, the Developer seeks agreement from the Relevant Planning Authority, in this instance, Cambridgeshire County Council that the design updates presented in **EfW CHP Facility Design Update 01, February 2025 (Revision 2.0)** are within the Scope of the Order and the Environmental Statement. Once confirmed the Developer and their (preferred) EPC Contractor will progress the detailed design on this basis.

To provide an audit trail of the Developer's request and Cambridgeshire County Council's response the following Forms are provided:

- Form A summarises the Developer's request; and
- Form B records Cambridgeshire County Council's response.

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FORM A – SUMMARY OF REQUEST/NOTIFICATION					
Project:	The Medwor	th Energy from W	aste Combined Heat and Pow	ver Facility Order 2024	
	Made: 20 Fe	bruary 2024			
Reference:	CP3_R2_Dl	J01			
Originator:	Medworth CHP Limited (the Developer)				
Name:	Tim Marks		Position:	Head of Planning	
Issued to:	Cambridges Council	hire County	Date issued:	05/12/2024	
			Response requested by ¹ :	20/12/2024	
Agreed extension to receive a response by: w/c 03/02/25					
Work No(s) / Contract 1,1A,1B and 2A at the EfW CHP Facility Site / Contract Package 3 Package affected:					
Relevant Order Requirement(s		Requirement 2 (detailed design approval)			

Summary of design update:

Since the Order was Made in February 2024, the Developer has commenced the first detailed design review of Work Nos.1,1A,1B and 2A with their (preferred) EPC Contractor. This review seeks to rationalise the design of the EfW CHP Facility Site within the approved limits of deviation, thereby reduce the use of materials, visual impacts, and costs.

The first stage of the Developer's design review ('Design Update 01' (DU01)) is complete, and this request (see accompanying document **EfW CHP Facility Design Update 01**, **February 2025 (Revision 2.0)**) provides a progress check to ensure the updated design proposals for Work Nos. 1,1A,1B and 2A are within the scope of the Order and do not introduce any consequential effects to the project mitigation and would not cause any new or materially different environmental effects.

Working within the scope of the Order the overall volume and footprint of the EfW CHP Facility has been reduced by around 25% and 18% respectively. Buildings and structure heights have, in part, been lowered and by maximising the use of available internal areas, all staff and visitor accommodation can be accommodated within the envelope of the EfW CHP Facility building.

The authors of the ES, WSP have undertaken an assessment of the design updates. This review concludes, DU01 does not introduce any consequential material effects to the project mitigation and would not cause any new or materially different environmental effects.

In due course, The Developer intends to submit this document as background information to accompany the formal submission to discharge Requirement 2 for the relevant Work No(s). However, in advance and to enable the next steps in the detailed design process, it is issued to the relevant planning authority, Cambridgeshire County Council, to seek their agreement that the updated design proposals are within the scope of the Order.

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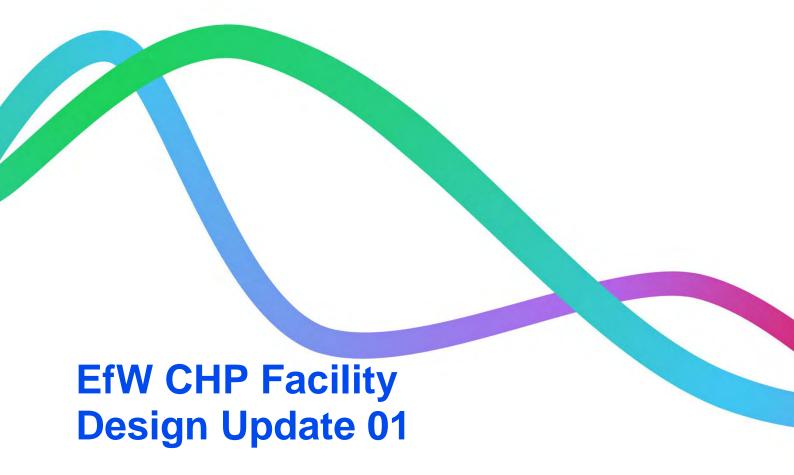
¹ CCC to advise if the response date is achievable, if not, to agree an alternative date with the Developer.

FORM B – CAMBRIDGESHIRE COUNTY COUNCIL'S RESPONCE						
Project:	The Medworth Energy from Waste Combined Heat and Power Facility Order 2024					
		Made: 20 February 2024				
Reference:		3_R2_DL		27		
Onden	4	A	0	Diagram	Comments	
Order requireme	nτ	Agree	Query	Disagree	Comments	
Within the scope Schedule 13 (documents and plans to be certified)	of	×			From the information provided the project officers agree that the proposed revisions are within the scope of Schedule 13	
Within the scope of Schedule 14 (maximum and minimum design parameters)		×			From the information provided the project officers agree that the proposed revisions are within the scope of Schedule 14	
Within the scope of the Environmental Statement		×				
General comments:		The proposed overall reduction on the footprint is welcomed. The limits of deviation would be complied with, the proposed impact appears to be broadly slightly less volume and height.				
Name:	Deborah Jeakins and Alice Tithecott					
Position:	Project Officers					
Date:	14 February 2025 (Following draft sent 6 February)					
Date issued to Developer:	1 14 February 2025					

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Medworth EfW CHP Facility Order: SI 2024 No.230





February 2025

Revision 2.0 Document ref. CP3_DU01_REV_2.0

We inspire with energy.



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1. Introduction

1.1 Background

- Medworth CHP Limited (the Developer) has secured a Development Consent Order (the Order)¹ to construct, operate and maintain an Energy from Waste (EfW) Combined Heat and Power (CHP) Facility on the industrial estate, Algores Way, Wisbech, Cambridgeshire. Together with associated Grid Connection, CHP Connection, Access Improvements, Wateronnections, Temporary Construction Compound (TCC), and an acoustic fence, these works are the Authorised Development.
- The Authorised Development will recover useful energy in the form of electricity and steam from over half a million tonnes of non-recyclable (residual), non-hazardous municipal, commercial and industrial waste each year. The Authorised Development has a generating capacity of over 50 megawatts and the electricity will be exported to the grid. The Authorised Development also has the capability to export steam and electricity to users on the surrounding industrial estate.

1.2 The Authorised Development

- 1.2.1 The Authorised Development comprises the following key components:
 - The EfW CHP Facility and Site (Work Nos.1/1A/1B/2A/2B);
 - CHP Connection (Work Nos.3/3A/3B);
 - Temporary Construction Compound (TCC) (Work No.5);
 - Access Improvements (Work Nos.4A/4B);
 - Water Connections (Work Nos.6A/6B);
 - Grid Connection (Work Nos.7/8/9) and
 - Acoustic fence (Work No.10).
- A summary description of each Authorised Development component is provided below.
 - EfW CHP Facility and Site: A site of approximately 5.3ha located south-west of Wisbech, located within the administrative areas of Fenland District Council and Cambridgeshire County Council. The main buildings of the EfW CHP Facility would be located in the area to the north of the Hundred of Wisbech Internal Drainage Board drain bisecting the site and would house many development elements including the tipping hall, waste bunkers, boiler house, turbine hall, air cooled condenser, air pollution control building and chimneys. The gatehouse, weighbridges, and laydown maintenance area would be located in the southern section of the EfW CHP Facility Site.

¹ Statutory Instrument 2024 No. 230 https://www.legislation.gov.uk/uksi/2024/230/schedule/1/made



- CHP Connection: The EfW CHP Facility would be designed to allow the export
 of steam and electricity from the facility to surrounding business users via
 dedicated pipelines and private wire cables located along the disused March to
 Wisbech railway. The pipeline and cables would be located on a raised, steel
 structure.
- TCC: Located adjacent to the EfW CHP Facility Site, the compound would be used to support the construction of the Authorised Development. The compound would be in place for the duration of construction.
- Access Improvements: includes access improvements on New Bridge Lane (road widening and site access) and Algores Way (relocation of site access 20m to the south).
- Water Connections: A new water main connecting the EfW CHP Facility into the local network will run underground from the EfW CHP Facility Site along New Bridge Lane before crossing underneath the A47 to join an existing Anglian Water main. An additional foul sewer connection is required to an existing pumping station operated by Anglian Water located to the northeast of the Algores Way site entrance and into the EfW CHP Facility Site.
- Grid Connection: This comprises a 132kV electrical connection using underground cables. The Grid Connection route begins at the EfW CHP Facility Site and runs underneath New Bridge Lane, before heading north within the verge of the A47 to the Walsoken Substation on Broadend Road. From this point the cable would be connected underground to the Walsoken DNO Substation.
- Acoustic fence: This comprises a 3m high acoustic fence fronting a residential property at 10 New Bridge Lane, Wisbech.

1.3 Purpose of this document

- The Environmental Statement (ES) accompanying the application for the Authorised Development assessed a set of design parameters and principles. These design parameters and principles are secured under the Order at:
 - Schedule 13 (documents and plans to be certified); and
 - Schedule 14 (maximum and minimum design parameters).
- Based on the approved design parameters and principles and prior to commencement of construction of the relevant Work No(s), Order Requirement 2 requires the Developer to submit detailed designs to the relevant planning authority² for approval. Requirement 2 states:
 - "(1) No part of Work Nos. 1, 1A, 1B, 2A, 2B, 3, 6A, 6B, 7, 8, 9 or 10 may commence until details of the layout, scale and external appearance for that Work No. have been submitted to and approved by the relevant planning authority.

² For the EfW CHP Facility Site, the relevant planning authority is Cambridgeshire County Council



- (2) The details submitted for approval under sub-paragraph (1) must be substantially in accordance with the design principles set out in Appendix A of the design and access statement.
- (3) Where a requirement requires the authorised development to be constructed in accordance with details approved by the relevant planning authority, the approved details are taken to include any amendments subsequently approved by the relevant planning authority.
- (4) The authorised development must be carried out in accordance with the approved details."
- Since the Order was Made in February 2024, the Developer has commenced the first detailed design review of Work Nos.1,1A,1B and 2A with their (preferred) EPC Contractor. This review seeks to rationalise the design of the EfW CHP Facility Site within the approved limits of deviation, thereby reducing the use of materials, visual impacts, and costs.
- The first stage of the Developer's design review ('Design Update 01' (DU01)) is complete, and this document provides a progress check to ensure the updated design proposals for Work Nos. 1,1A,1B and 2A are within the Scope of the Order and do not introduce any consequential effects to the project mitigation and would not cause any new or materially different environmental effects.
- The authors of the ES, WSP (formerly Wood), were instructed by the Developer to undertake the DU01 assessment.
- In due course, The Developer intends to submit this document as background information to accompany the formal submission to discharge Requirement 2 for the relevant Work No(s). However, in advance and to enable the next steps in the detailed design process, it will be issued to CCC to seek their agreement that the updated design proposals are within the scope of the Order.

1.4 Structure of this document

- Section 2: Design parameters review
- Section 3: Design principles review
- Section 4: Environmental effects review
- Section 5: Conclusions

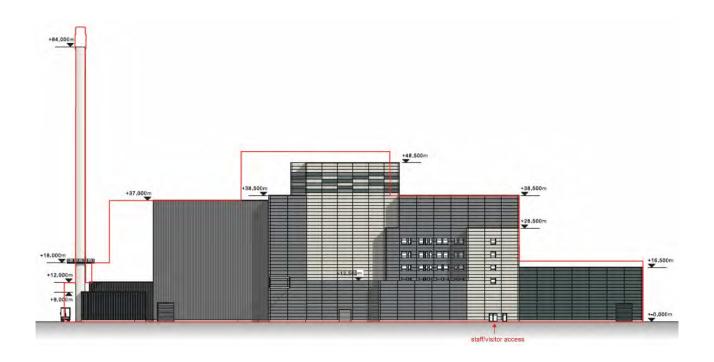


2. Design parameters review

2.1 Vertical limits of deviation

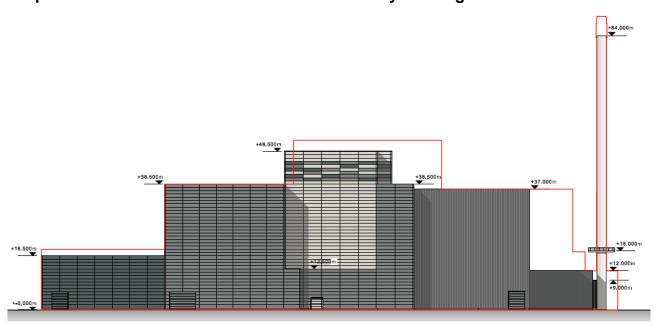
- The vertical design parameter limits for the EfW CHP Facility buildings and structures are stated in Schedule 14 of the Order and the certified plans within Schedule 13, specifically elevational drawings Figures 3.7(i) to (iv), Figure 3.8, and Figure 3.15 of the ES Chapter 3: Description of the Proposed Development Figures (Volume 6.3) [APP-049].
- For DU01, **Appendix A** provides the following sequence of elevational drawings of the EfW CHP Facility building and structures:
 - as approved (the maximum design parameters, see paragraph 2.2.1);
 - DU01 revised proposals (the design proposed to be implemented); and
 - DU01 proposals including a red line showing the profile of the as approved deign
 to identify if the revised proposal is within the approved design parameters. For
 convenience, these drawings are also presented in **Graphic 2.1** to **Graphic 2.4**below.

Graphic 2.1: East elevation of the EfW CHP Facility building and structures

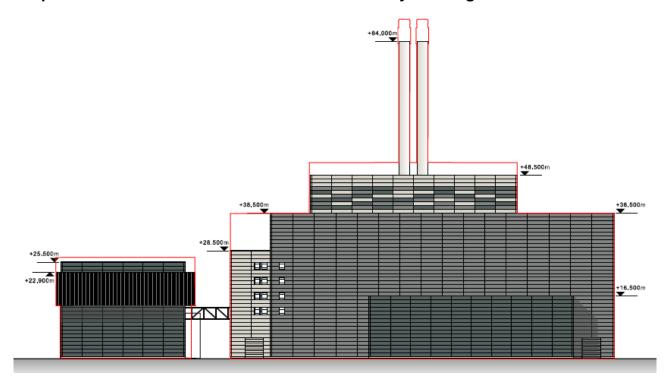




Graphic 2.2: West elevation of the EfW CHP Facility building and structures

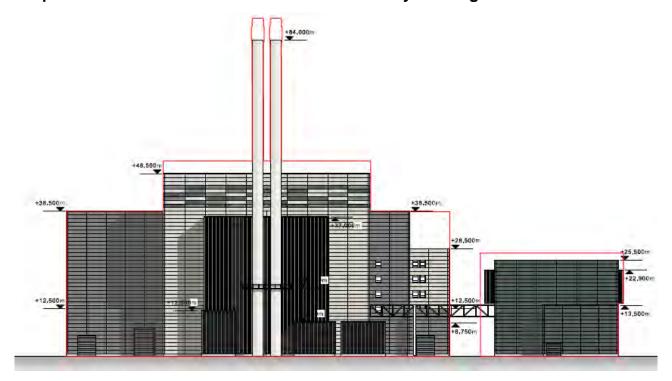


Graphic 2.3: North elevation of the EfW CHP Facility building and structures





Graphic 2.4: South elevation of the EfW CHP Facility building and structures



The DU01 proposals include a reduction in height of the waste reception building, boiler house, turbine building, ACC³ and chimneys and a reduction in volume of the boiler house and APC building, turbine building and ACC. Whilst there is some horizontal movement of the position of the boiler house, APC building and ID fans, these are within the horizontal limits of deviation, see **Section 2.2**.

Summary

At DU01, all buildings and structures remain within the maximum and minimum design parameters allowed under the Order.

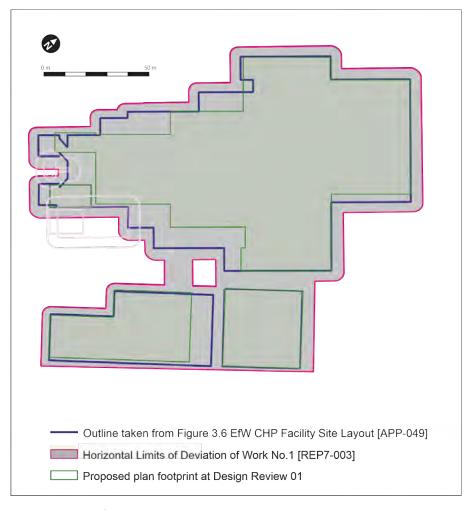
2.2 Horizontal limits of deviation

- The horizontal design parameter limits for the EfW CHP Facility buildings and structures are stated in Schedule 14 of the Order and the certified plans within Schedule 13, specifically the Works Plans, Revision 4 (Volume 2.3) [REP7-003] and Figure 3.16 of the ES Chapter 3: Description of the Proposed Development Figures (Volume 6.3) [APP-049].
- Appendix B provides the aforementioned drawings, and the Work Plan limits overlayed with the footprint of the EfW CHP Facility buildings and structures as submitted for the Order and proposed at DU01. For convenience, the overlay drawings for relevant Work Nos. are also simplified and presented in **Graphic 2.5** to **Graphic 2.7** below.

³ Pipe duct work to be added to the ACC at a later design review, therefore height to increase, but within the maximum design parameters; 30m



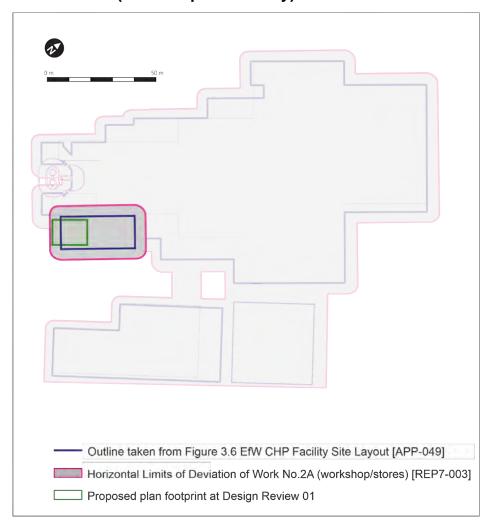
Graphic 2.5: Work No.1 horizontal limits of deviation



A reduction in the footprint has led to a revised position, however, all buildings and structures within Work No.1 remain within the horizontal limits of deviation as identified in the Works Plans.



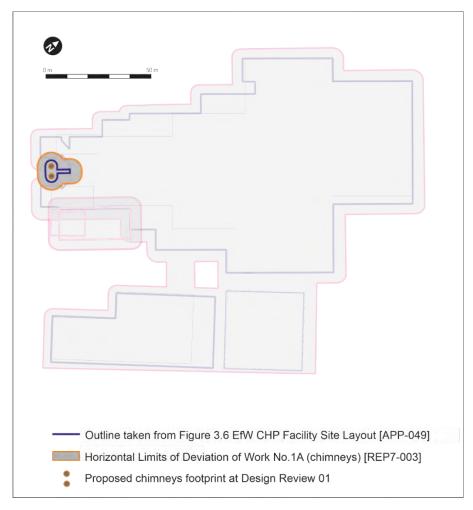
Graphic 2.6: Work No.2A (Workshop/stores only) horizontal limits of deviation



A reduction in the footprint has led to a revised position, however, the workshop/stores building (Work No.2A) remains within the horizontal limits of deviation as identified in the Works Plans.



Graphic 2.7: Work No.1A horizontal limits of deviation



The Chimneys within Work No.1A remain within the horizontal limits of deviation as identified in the Works Plans.

Summary

The site layout of the EfW CHP Facility for Works No.1, 1A and 2A (workshop/stores) at DU01 are within the Order's horizontal limits of deviation.

2.3 Staff and visitor facilities

- DU01 has enabled the incorporation of all necessary staff and visitor welfare and support accommodation within the envelope of the EfW CHP Facility building. This approach removes the need to construct the separate Administration building (Work No.1B), consequently reduces construction materials and provides further opportunities for additional landscaping at the EfW CHP Facility Site⁴.
- The access point for staff and visitors is adjacent to the enclosed IBA loading area, see **Graphic 2.1**. Above the IBA loading area and spread over four floors, staff and visitors will access the accommodation via either a ground floor lift or stairs.

⁴ To be reviewed during preparation of the biodiversity and landscaping scheme secured under Order Requirement 4.



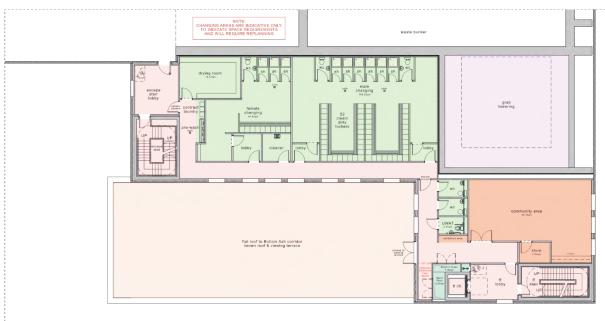
- The staff and visitor accommodation within the EfW CHP Facility building includes:
 - Equality Act compliant access;
 - Separate welfare facilities for education and community events;
 - Dedicated community area, lecture theatre and exhibition area;
 - At the first floor, a brown roof and visitor viewing terrace;
 - Rainwater harvesting for use in the toilets; and
 - A location available for roof mounted photovoltaic panels.
- Appendix C provides drawings of the staff and visitor accommodation floorplans and for convenance these are also presented in **Graphic 3.1** to **3.5**, below.

Graphic 3.1: Staff and visitor accommodation – ground floor (access via lift and stairs)





Graphic 3.2: Staff and visitor accommodation – first floor (community area and changing rooms)



First Floor Plan +11.010 FFL +11.000 SSL

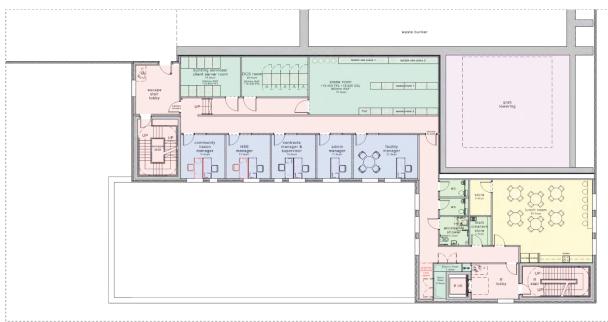
Graphic 3.3: Staff and visitor accommodation – second floor (lecture theatre and offices)



Second Floor Plan +14.750 FFL +14.600 SSL

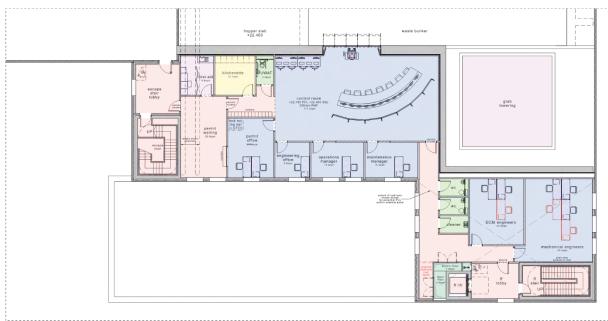


Graphic 3.4: Staff and visitor accommodation – third floor (staff welfare)



Third Floor Plan +18.750 FFL (+19.400) +18.600 SSL

Graphic 3.5: Staff and visitor accommodation – fourth floor (control room)



Fourth Floor Plan +22.750 FFL +22.400 SSL

Photovoltaic solar panels

The Developer confirms, the roof–mounted photovoltaic solar panels which were proposed on the separate Administration building (to supplement energy use within the administration building, generating approximately 50kW (0.05MW) of electricity) will be provided in the detailed design of the EfW CHP Facility. The Developer and their preferred EPC Contractor are currently reviewing the location (see **Graphic 3.5**). The location of the photovoltaic solar panels will be confirmed under the detailed design approval, Requirement 2 of the Order.



3. Design principles review

- Schedule 13 of the Order includes, as a certified document, **Appendix A** of the **Design and Access Statement (Volume 7.5) [APP-096]** (reproduced in **Table 3.1**) and states the design principles for the EfW CHP Facility. These principles have been reviewed against the principal updates to the EfW CHP Facility at DU01, which are;
 - A reduction in height of the waste reception building, boiler house, turbine building, ACC and chimneys;
 - A reduction in volume of the boiler house, APC building, turbine building and ACC⁵; and
 - Incorporation of staff and visitor welfare facilities into the EfW CHP Facility building:
- Table 3.1 reviews the eleven design principles' status at DU01 and where necessary includes a comment.

Table 3.1: EfW CHP Facility Design Principles

ID	Design principle	Status at DU01	Comment
DP01	Cladding colours and type will be designed to create cohesion across the various building elements.	No change	
DP02	A three coloured banding approach will be followed, using shades of grey that respond to the surrounding buildings on the industrial estate.	No change	
DP03	The three banded cladding approach will be designed to minimise the overall visual bulk of the buildings.	No change	
DP04	Lower-level building elevations will be darker grey to create the effect of a unifying plinth throughout the site.	No change	

⁵ Pipe duct work to be added to the ACC at a later design review, therefore hight to increase, but within the maximum design parameters; 30m



ID	Design principle	Status at DU01	Comment
DP05	Above the lower-level building elevations, there will be a gradation through a mid-grey for medium level building elevations to a light grey for the boiler house building.	No change	
DP06	The detailed design of the EfW CHP Facility will consider the use of kinetic cladding to create additional visual interest on the higher parts of the EfW CHP Facility, most notably the boiler house building.	Under review	Not part of DU01, however, multicolour cladding panels based on the palette of acceptable colours is currently presented. Subject to further review.
DP07	Openings in the elevations of the EfW CHP Facility will be the minimum necessary to enable the proper function of the EfW CHP Facility.	Updated	Windows updated to allow natural lighting for staff and visitors.
		Under review	Louvre locations to be confirmed at a later design review.
DP08	Roof-mounted equipment will be minimised to that which is necessary for the proper function of the EfW CHP Facility and no equipment will extend beyond the maximum LoD relevant to that part of the Facility.	No change	
DP09	The EfW CHP Facility will achieve a BREEAM score of 'good' as a minimum.	No change	
DP10	The EfW CHP Facility building cladding will achieve a BRE Green Guide A+ Rating.	No change	
DP11	No advertisements will be placed on the EfW CHP Facility buildings. Signage will be consistent with the architectural context and appear uniform in terms of material, colour and geometry using the agreed colour palette and/or Applicant's corporate colours only.	No change	



Summary

Beyond the introduction of additional windows to allow natural lighting for staff and visitors, no further updates to the design principles are introduced at DU01. By providing an improved working and teaching environment, the introduction of additional windows will assist in the proper function of the EfW CHP Facility.



4. Environmental effects review

- Section 2 and Section 3 confirm the proposed design updates at DU01 fall within the scope of the Order. For completeness these design updates are reviewed against the ES to identify if the changes, which essentially result in a reduction in the volume of buildings remain within the scope of the ES or introduce consequential environmental effects to the project mitigation or materially differ from the conclusions set out in the ES.
- A review of the ES is undertaken, and high-level commentary is provided below in **Table 4.1**.

Table 4.1: ES review and conclusions

ES Chapter	Within EIA	Comment
(Volume 6.2) 1.Introduction [APP-028]	parameters N/A	-
2.Alternatives [APP-029]	N/A	-
3.Description of the Proposed Development [APP-030]	Yes	 The proposed design updates result in a reduction in the height and volume of buildings. All buildings and structures remain within the maximum and minimum design parameters applied for and secured by the Order. The proposals overall provide a footprint reduction of approximately 18% and a reduction in the volume of buildings of approximately 25%. The proposed design updates include: A reduction in height of the waste reception building, boiler house, turbine building, ACC and chimneys. A reduction in volume of the boiler house, APC building, turbine building and ACC. There is some horizontal movement to the position of the boiler house, APC building, and ID fans, however, these remain within the horizontal limits of deviation. Staff and welfare facilities are incorporated within the EfW CHP Facility building, removing the need for the separate Administration building. The staff welfare and visitor accommodation are located over three floors and includes a viewing terrace on the first floor.
4.Approch to the EIA [APP-031]	Yes	No changes to the EIA approach.
_		



ES Chapter (Volume 6.2)	Within EIA parameters	Comment
5.Legislation and Policy [APP-032]	Yes	Whilst the national policy statements have been adopted since the EIA was prepared, the changes made by the Secretary of State do not result in any changes to the conclusions of significance reported within the ES when read in conjunction with the design updates proposed.
6.Traffic and Transportation [APP-033]	Yes	The reduction in the volume of buildings and the removal of the separate Administration building would require fewer material deliveries than those assessed within ES Chapter 6: Traffic and Transport . Therefore, fewer HGV deliveries would be required during the construction and decommissioning phases.
		Although the proposed design updates would be beneficial in reducing the trip generation during the construction phase, in consideration of the Authorised Development in its entirety, these would not have any material impact on the anticipated traffic and transport effects reported within the ES. The proposed design updates are therefore considered to be within the scope of the ES.
		The construction of the Authorised Development would continue to be subject to the Outline Construction Traffic Management Plan Rev2 (CTMP) (Volume 6.4) [REP7-010] approved as part of the Order, which seeks to minimise transport/traffic disruption where possible. Pursuant to Order Requirement 11,the detailed CTMP will be submitted for approval by the relevant planning authority prior to the commencement of Work No. 1 and 2.
		In summary, the proposed design updates would not alter the conclusions of the ES.
7.Noise and vibration [APP-034]	Yes	The design updates were modelled (decreased chimney height, decreased ACC height, increased ACC ducting height, reduced boiler house building height). As a result of the design updates, predicted noise levels at residential receptors have changed by between -0.8 to +0.1 dB. These changes are imperceptible and immaterial with respect to the findings and conclusions of ES Chapter 7: Noise and Vibration . Therefore, the proposed design updates are within the scope of the ES.
		The Authorised Development (and Work No. 1 and 2) will continue to be the subject of Order Requirement 19 (Noise Management) and an Operational Noise Management Plan will be submitted to the relevant planning authority for its approval before the date of commissioning.
		In summary, the proposed design updates would not alter the conclusions of the ES.
8.Air Quality [APP-035]	Yes	The minimum (suitable) height of the chimneys assessed within the ES is 84m, see Table 8B4.1 Chimney parameters and Annex E Chimney Height Modelling (Volume 6.4) [REP2-006]. Consequently, Schedule 14 (Maximum and Minimum Design



ES Chapter (Volume 6.2)

Within EIA Comment parameters

Parameters) of the Order states the minimum height of the chimneys is 84m above FFL. Therefore, reducing the height from 90m (the Maximum height allowed within Schedule 14) to 84m is within the scope of the ES and the Order.

As such, the proposed height of the chimneys is acceptable in that there would be no changes to those air emissions emitted from the EfW CHP Facility that have already been assessed. The chimneys height of 84m is also compliant with the Environmental Permit (EPR/HP3441QA) issued on 29 May 2024.

As the construction of the separate Administration building is no longer required this would result in a reduced number of HGV trips and a consequential reduction in air quality emissions arising from vehicle movements over those assessed within ES Chapter 8: Air Quality. Therefore, the reduction in the volume of the buildings to be constructed and the removal of the separate Administration building would be beneficial.

In summary, the proposed design updates would not alter the conclusions of the ES.

9.Landscape and Visual

[APP-036]

Yes

The reduction in height of the chimneys (by 6m) and the main buildings of the EfW CHP Facility by 2-3m, whilst beneficial when compared to the approved scheme, would not be of a scale that would materially alter the magnitude of change and consequent level/significance of effects for the landscape, townscape and visual receptors considered within **ES Chapter 9: Landscape and Visual**.

The reduction in volume of the buildings would similarly be beneficial but would not alter the conclusions of the ES, nor would the introduction of additional windows given that the windows are proposed in locations that would not lead to the overlooking of residential properties and would instead face in a south easterly direction towards other industrial and commercial properties.

Soft landscape provision within the site through the removal of the separate Administration building and incorporation of this area within the landscaping and biodiversity mitigation scheme (full details to be submitted as part of Requirement 4 of the Order) would again be beneficial when compared to the approved scheme, however the scale and location of this increase would also not lead to a change to the level and significance of effects reported in **ES Chapter 9: Landscape and Visual**.

In summary, the proposed design updates would not alter the conclusions of the ES.

10.Historic Environment

Yes

[APP-037]

The assessment of effects on the settings of heritage assets identified within the ES Chapter 10: Historic Environment, including Wisbech Conservation Area and listed buildings was informed by photomontage illustrations (ES Figure 9.23b, Viewpoint 7 (Volume 6.3) [APP-058] and Figures 9.26b, Viewpoint 10 (Volume 6.3)



ES Chapter (Volume 6.2)

Within EIA Comment parameters

[APP-059]). The reduction in height and volume of the chimneys and boiler house are within the parameters used in the ES, including in the preparation of these illustrations. The reduction in height and volume will therefore result in the magnitude of effects on these heritage assets being equivalent or slightly less than those assessed.

The change in height, volume and footprint will not alter the assessment in the ES with regard to below ground archaeological remains. Work No.1 will remain within the scope of the proposed Archaeological Written Scheme of Investigation and the Outline Construction Environmental Management Plan (CEMP) (Volume 7.12) [REP6-012]; the detailed CEMP to be secured by Order Requirement 10.

In summary, the proposed design updates would not alter the conclusions of the ES.

11.Biodiversity [AS-008]

Yes

The reduction in the volume of buildings including the removal of the separate Administration building would reduce the amount of land take within the EfW CHP Facility Site and therefore provide further opportunities to increase landscape and biodiversity provision.

Bat and bird boxes that were proposed on the Administration building will be incorporated into the EfW CHP Facility building and or affixed to the retained trees at the southern end of the EfW CHP Facility Site. Full details of bat and bird boxes will be provided in the biodiversity and landscape mitigation strategy, submitted under Requirement 4 of the Order.

The proposed design updates do not reduce the anticipated loss of vegetation as the demolition of existing buildings and clearance would continue as permitted with the areas occupied by such vegetation still required. However, the changes could reduce the potential risk of damage/disturbance to species and habitat during the construction of a separate Administration building. As such the proposed design updates would be beneficial but not significant.

In summary, the proposed design updates would not alter the conclusions of the ES.

12.Hydrology [REP5-008]

Yes

The removal of the separate Administration building would reduce the potential risk of sediment run off as a result of any construction activities and reduce the potential to deteriorate the water quality of the aquatic environment receptors (in particular the drain running across the northern and eastern boundary of the site at the proposed entrance to Algores Way). Whilst these potential effects would be appropriately mitigated through the **Outline Water Management Plan, Appendix B**, of the **Outline CEMP (Volume 7.12) [REP6-012])**, the proposed design updates would not materially alter the conclusions of **ES Chapter 12: Hydrology**.

In summary, the proposed design updates would not alter the conclusions of the ES.



ES Chapter (Volume 6.2)	Within EIA parameters	Comment
13.Geology, Hydrogeology and Contaminated Land [APP-040]	Yes	The reduction in the height and volume of buildings of the EfW CHP Facility including the removal of the separate Administration building and the corresponding reduction in land take occupied by the buildings would overall reduce the potential risk of groundwater contamination. Construction activities as highlighted in the ES Chapter13: Geology, Hydrogeology and Contaminated Land can increase the potential for an accidental release of contaminants or polluting substances, which can lead to ground contamination and risks to controlled waters. These risks would be mitigated through the environmental measures set out in the Outline Construction Environmental Management Plan (CEMP) (Volume 7.12) [REP6-012]; the detailed CEMP to be secured by Order Requirement 10. In summary, the proposed design updates would not alter the conclusions of the ES.
14.Climate [APP-041]	Yes	The proposed design updates include the removal of the separate Administration building, including the relocation and use of photovoltaic panels to the EfW CHP Facility building and a reduction in the volume of the boiler house, APC building, turbine building and ACC. The design updates effectively reduce the volume of buildings by approximately 25% and increase the efficient use of space within the EfW CHP Facility which will provide staff and welfare facilities and visitor accommodation. These changes will reduce construction activities including the use and supply of raw materials, manufacture of materials, reduce energy use, water, maintenance and repair and general running costs. In summary, the proposed design updates would not alter the conclusions of the ES.
15. Socio- Economics Tourism Recreation and Land Use [APP-042]	Yes	ES Chapter 15: Socio-Economics, Tourism, Recreation, and Land Use considers the potential for significant effects upon a range of environmental receptors with positive effects identified for direct and indirect employment during construction. Whilst the removal of the separate Administration building from the Authorised Development and reduction in the height and volume of the EfW CHP Facility would potentially reduce construction activity at the EfW CHP Facility Site, this would be negligible and be unlikely to result in a change in overall workforce numbers. A positive, not significant effect arising from the economic benefits of a £450million construction spend within the economy and with local suppliers would continue to be experienced with any cost savings resulting from the design updates offset by increases in construction costs since the assessment was undertaken. The proposed design updates do not have the potential to alter the assessment conclusions in relation to skills and employment, housing, local facilities, land use, recreation and tourism, including public rights of way. This conclusion



ES Chapter (Volume 6.2)	Within EIA parameters	Comment
		is relevant to the assessment of the construction, operation and decommissioning phases.
		In summary, the proposed design updates would not alter the conclusions of the ES.
16.Health [APP-043]	Yes	The proposed design updates reduce the overall volume of buildings and no longer require the construction and operational use of the separate Administration building. The activities originally proposed to be undertaken within that building would be facilitated in the EfW CHP Facility, where staff and visitors will be expected to comply with UK health and safety and environmental legislation including the Integrated Management System (ensure risk assessment processes, safe systems and management of visitors) and the Environmental Permit (reference no EPR/HP3441QA, issued on 29 May 2024) as set out in the ES.
		The proposed design updates including the reduction in height and volume of the chimneys and boiler house remain within the approved maximum and minimum design parameters ensuring adequate air dispersion.
		The proposed design updates would reduce effects that could give rise to health impacts with respect to noise, dust, odour, traffic. No material reduction in the size of the construction workforce is anticipated such that the indirect and beneficial effects upon the health of people in paid employment would not change significantly from that which is assessed within ES Chapter 16: Health .
		The Authorised Development would continue to be subject to the Environmental Permit, Construction, Design and Management Regulations, the Health and Safety Executive and the Outline Construction Environmental Management Plan (CEMP) (Volume 7.12) [REP6-012]; the detailed CEMP to be secured by Order Requirement 10.
		In summary, the proposed design updates would not alter the conclusions of the ES.
17.Major Accidents and Disasters [APP-044]	Yes	The proposed design updates reduce the overall volume of buildings and no longer require the construction and operational use of the separate Administration building. The activities originally proposed to be undertaken within that building would be facilitated in the EfW CHP Facility, where staff and visitors will be expected to comply with UK health and safety and environmental legislation including the Integrated Management System (ensure risk assessment processes, safe systems and management of visitors) and the Environmental Permit (reference no EPR/HP3441QA, issued on 29 May 2024) as set out in the ES.
		Overall, the proposed design updates are beneficial as the separate Administration building would not be constructed, which moderately reduces the opportunity for major accidents and disasters.
		The proposed design updates would not materially alter the conclusions of the ES and would continue to be subject to the



ES Chapter (Volume 6.2)	Within EIA parameters	Comment
		Environmental Permit, Construction, Design and Management Regulations, the Health and Safety Executive and the Outline Construction Environmental Management Plan (CEMP) (Volume 7.12) [REP6-012]; the detailed CEMP to be secured by Order Requirement 10.
		In summary, the proposed design updates would not alter the conclusions of the ES.
18. Cumulative Y Effects [APP-045]	Yes	The proposed design updates are within the scope of the ES. The separate Administration building was not considered to be a contributory factor in the assessment of cumulative effects reported within ES Chapter 18: Cumulative Effects . The reduction in the height and volume of the EfW CHP Facility would lessen its contribution to significant cumulative effects when considered with other developments.
		In consideration of the Authorised Development in its entirety, the design updates are not considered to be significant or materially change the conclusion of the ES.
19. Schedule of Mitigation and Monitoring [APP-046]	Yes	The proposed design updates remain within the maximum and minimum design parameters applied for and secured by the Order. Embedded environmental measures and mitigation remain suitable and would continue to apply to the construction and operational phases of the Authorised Development.

Project mitigation

The proposed design updates remain within the maximum and minimum design parameters applied for and secured by the Order. The proposals do not increase the footprint or volume of buildings. The design updates overall reduce the volume of buildings by approximately 25% and therefore are considered to fall within the scope of the ES. As such no additional mitigation measures are required and the existing environmental measures and mitigation will continue to be implemented.

Environmental effects

- The proposed design updates will generate consequential effects; however, these are not material or change the conclusion of the ES. The consequential effects would be beneficial overall, as the EfW CHP Facility will accommodate staff, welfare and visitor facilities and maximise the use of the building. The design updates reduce the land take required to facilitate the EfW CHP Facility, raw materials, HGVs, energy, and construction personnel required.
- The environmental effects of not constructing the separate Administration building would reduce noise and vibration, as well as dust and air quality emissions that were nevertheless concluded to be not significant within the ES (with embedded and additional mitigation). Furthermore, removing the separate Administration building



from the Authorised Development presents an opportunity to enhance the amount of biodiversity and landscaping at the EfW CHP Facility Site.

Summary

Considering the Authorised Development in its entirety, the proposed design updates are not significant and do not materially change the conclusions of the ES. With the implementation of the environmental measures and mitigation, there would be no changes in the significant effects already identified.

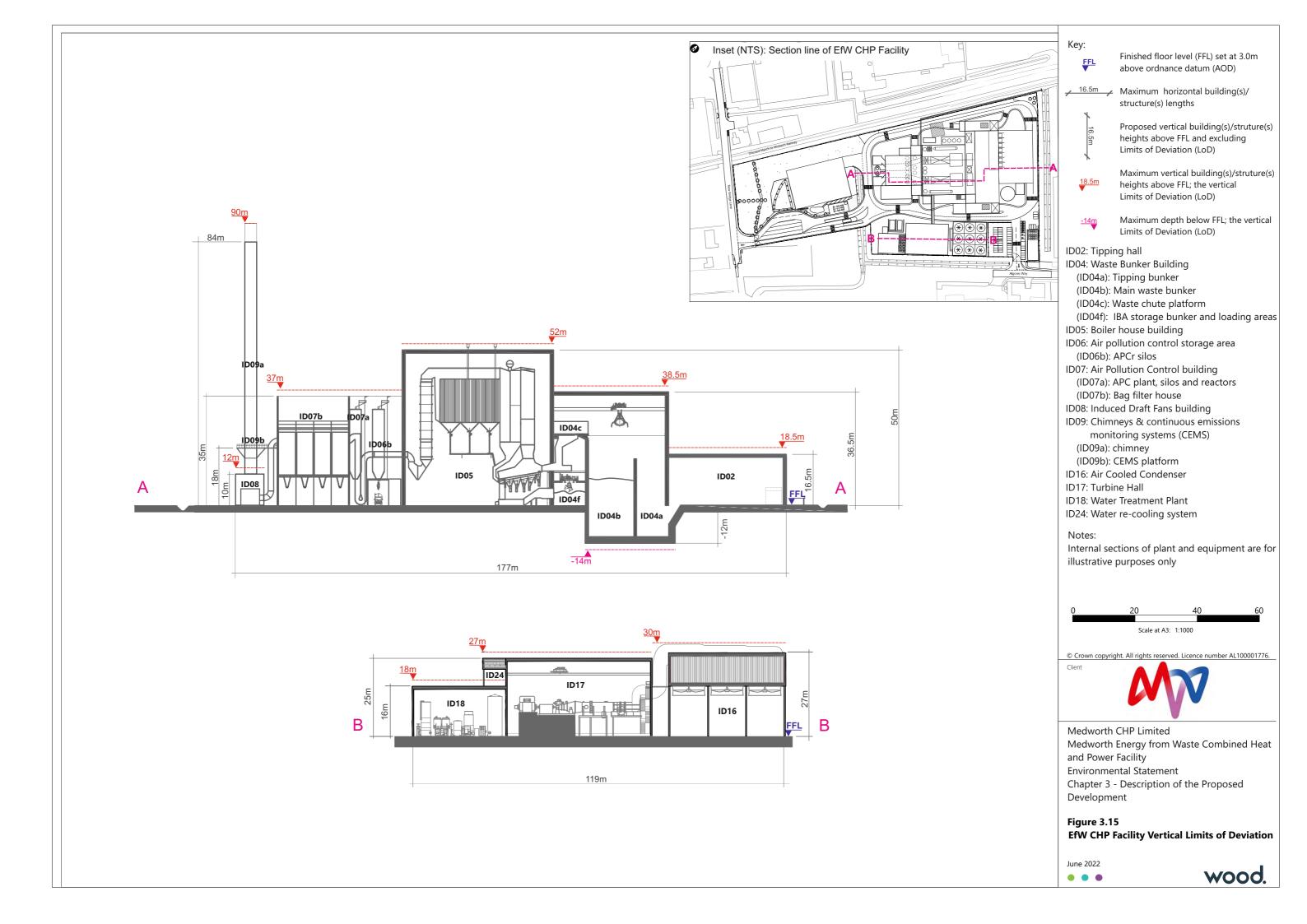


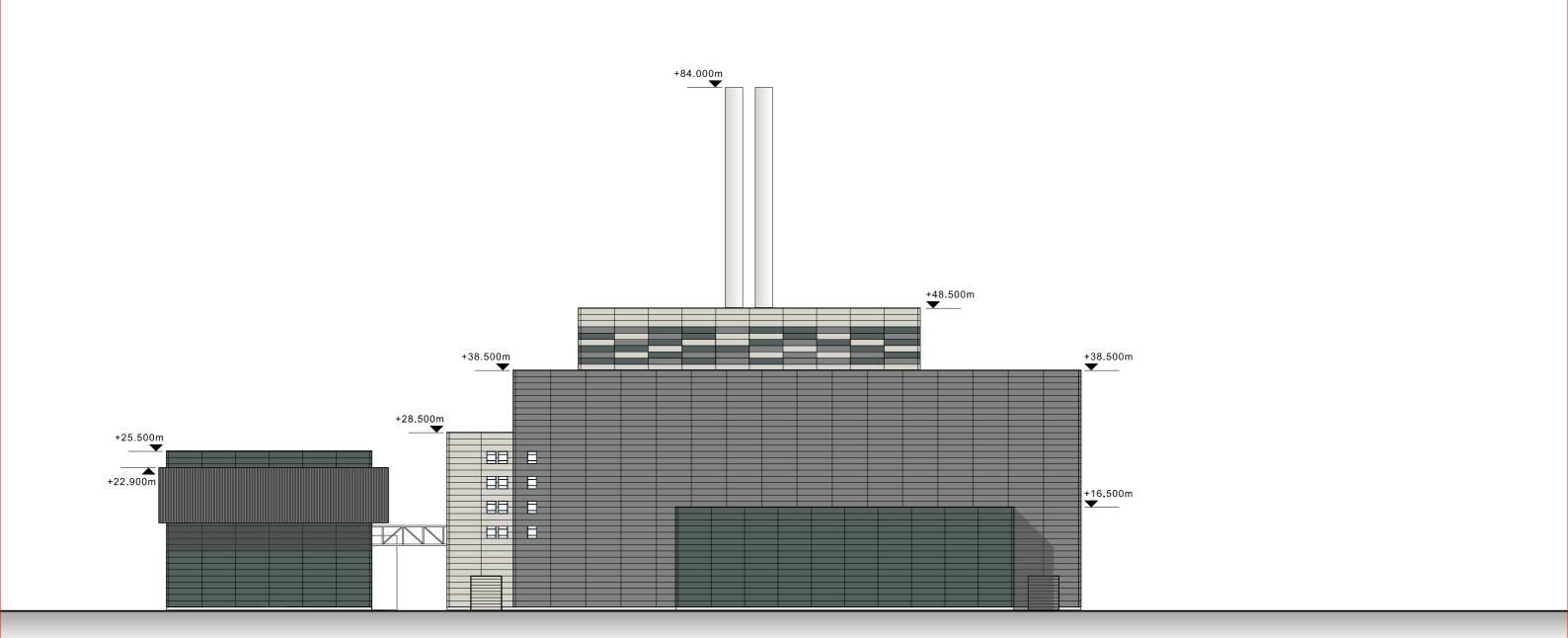
5. Conclusion

- Since the Order was Made, the Developer and their (preferred) EPC contractor has undertaken a design review (DU01) of the EfW CHP Facility Site and specifically Work Nos.1,1A,1B and 2A. Working within the scope of the Order the overall volume and footprint of the EfW CHP Facility has been reduced by around 25% and 18% respectively. Buildings and structure heights have, in part, been lowered and by maximising the use of available internal areas, all staff and visitor accommodation can be accommodated within the envelope of the EfW CHP Facility building.
- WSP has undertaken an assessment of the design updates. This review concludes, DU01 does not introduce any consequential material effects to the project mitigation and would not cause any new or materially different environmental effects.



Appendix A Vertical limits of deviation drawings



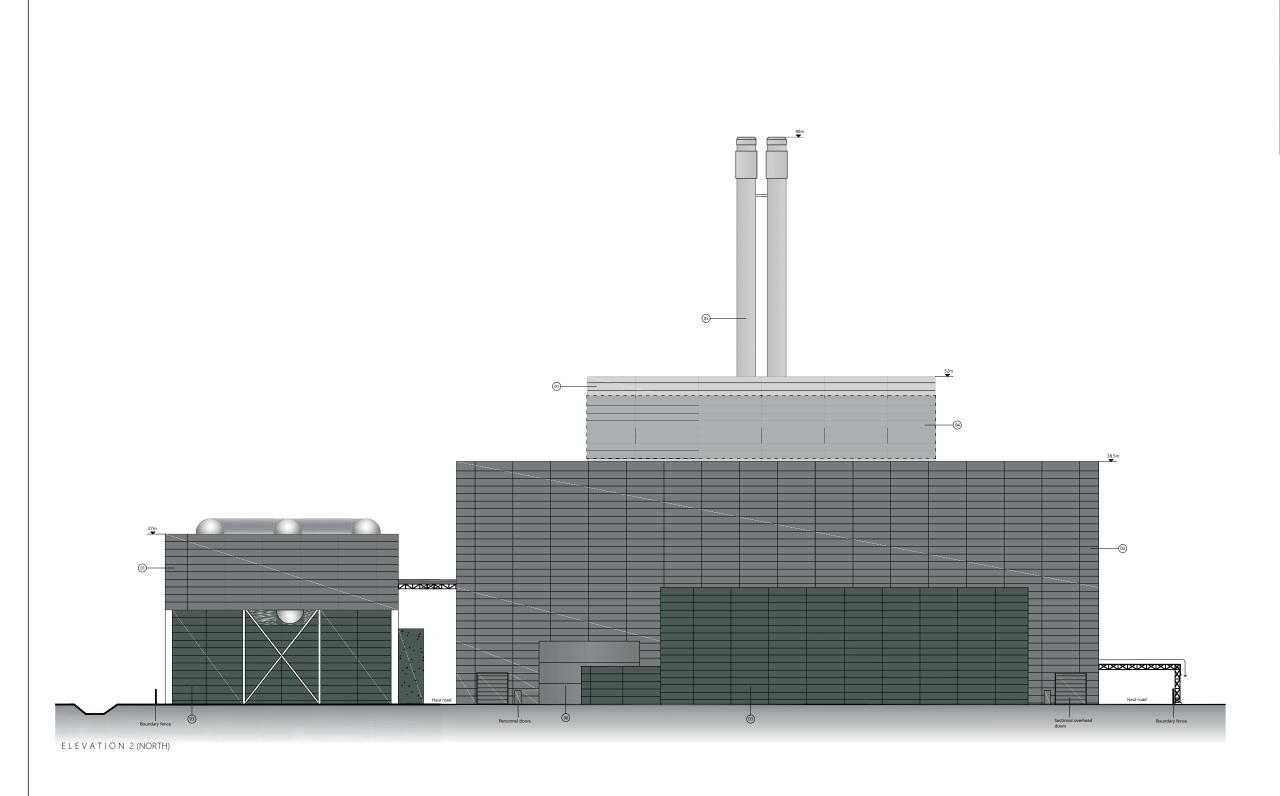


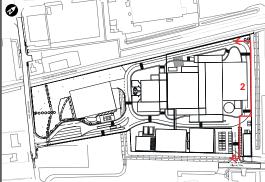
North Elevation



Note:
- For discussion purposes only.
- Louvres currently not shown.
- Cladding based on 1m Europanel F5 Extra Flat with pre-formed mitred corners.
- Vertical joints not currently shown.
- FGT, Silos and ACC are shown as single skin vertical trapezoidal reverse profile 32/1000 cladding

16236 KVI-WA-SK010_0.1 Medworth ERF Proposed North Elevation 1:600 @ A3 31.10.24





Key to materials

- 01 Profiled metal cladding wall system Colour: Grey White RAL 9002
- 02 Profiled metal cladding wall system Colour: Pure GreyRAL 000 55 00
- 03 Profiled metal wall system Colour: Merlin Grey RAL 180 40 05
- 04 Kinetic cladding system final design and appearance to be confirmed
- 05 Chimneys Colour: Grey White RAL 9002
- 06 Fire water tanks

Colour: Pure Grey RAL 000 55 00

Note: doors match adjacent cladding colour

Final selection of external materials and colours to be agreed with the relevant local planning authority



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MX

Medworth CHP Limited Medworth Energy from Waste Combined Heat

and Power Facility

Environmental Statement

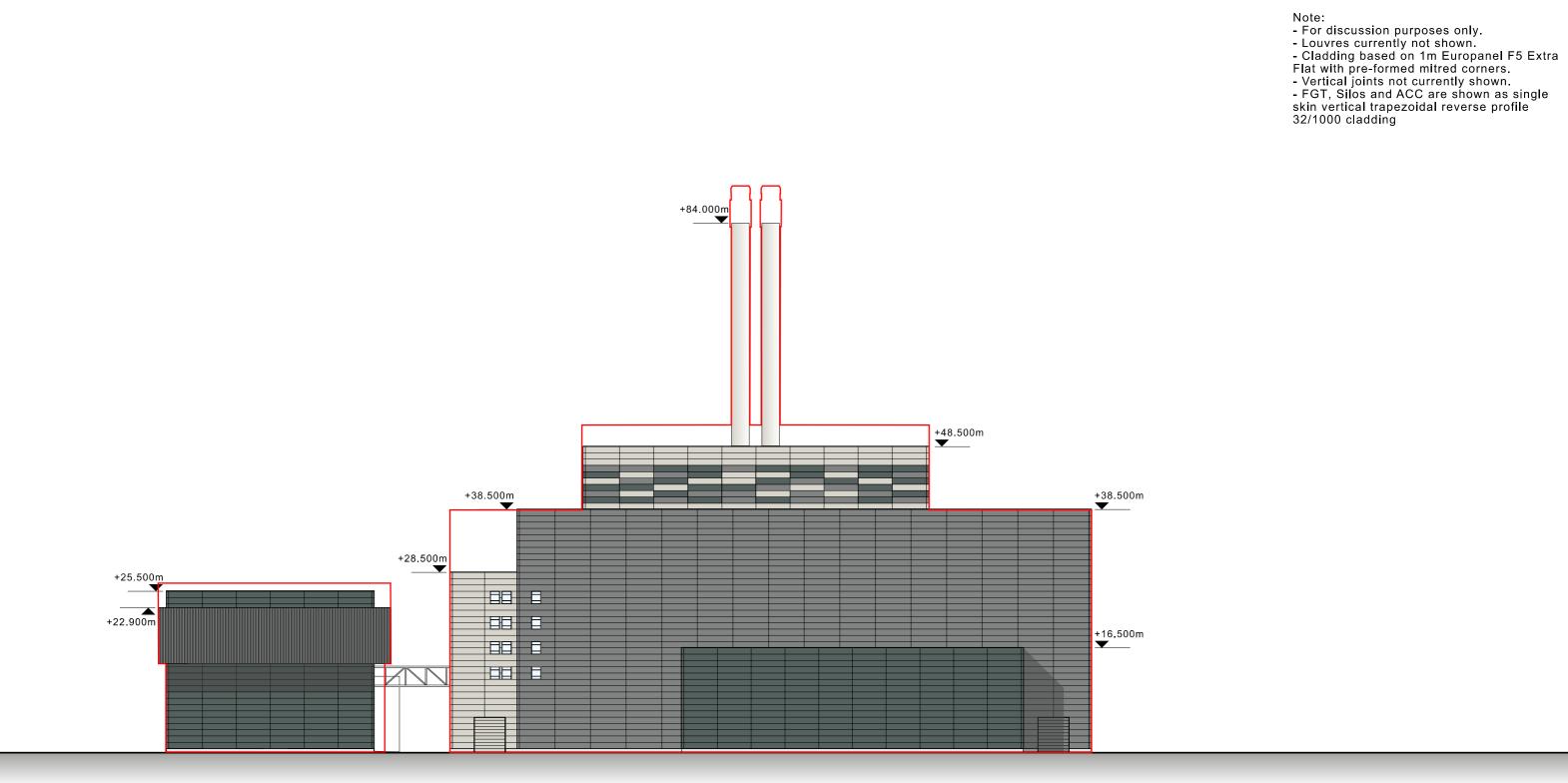
Chapter 3 - Description of the Proposed Development

Figure 3.7ii EfW CHP Facility Elevations

June 2022





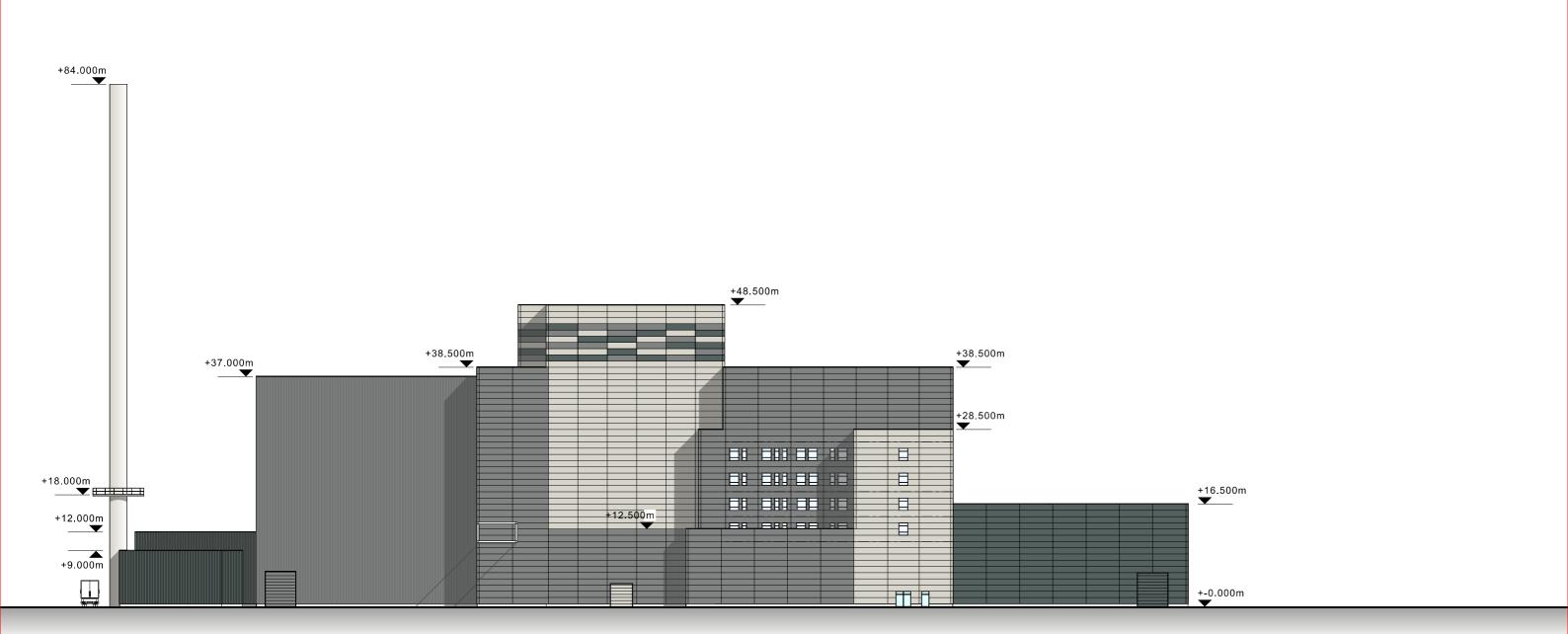


North Elevation

—— Outline taken from 3.7_i-iv-3.8-EfW-CHP-FacilityElevations (North Elevation)



16236 KVI-WA-SK010_0.1 Medworth ERF Proposed North Elevation 1:600 @ A3 31.10.24

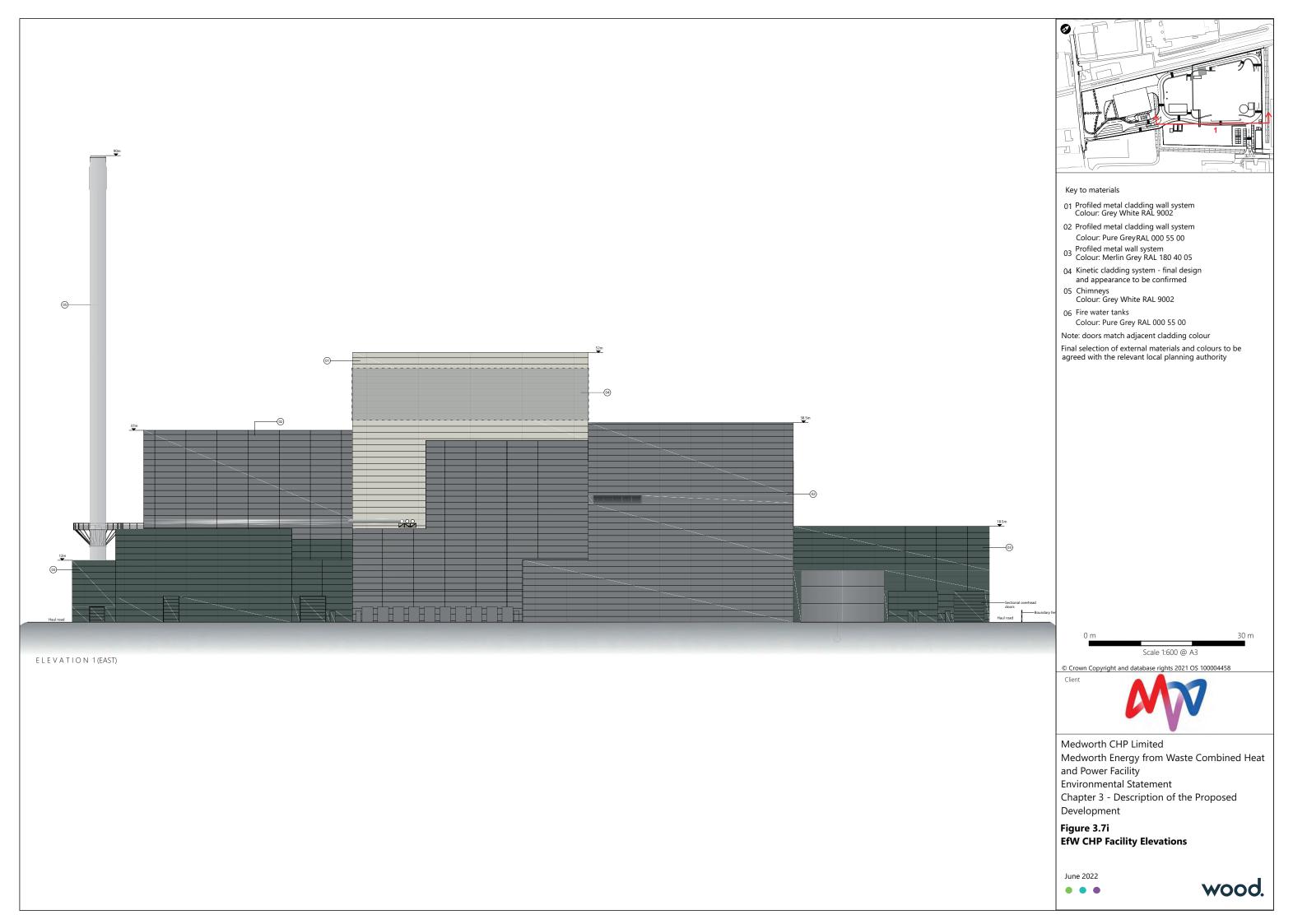


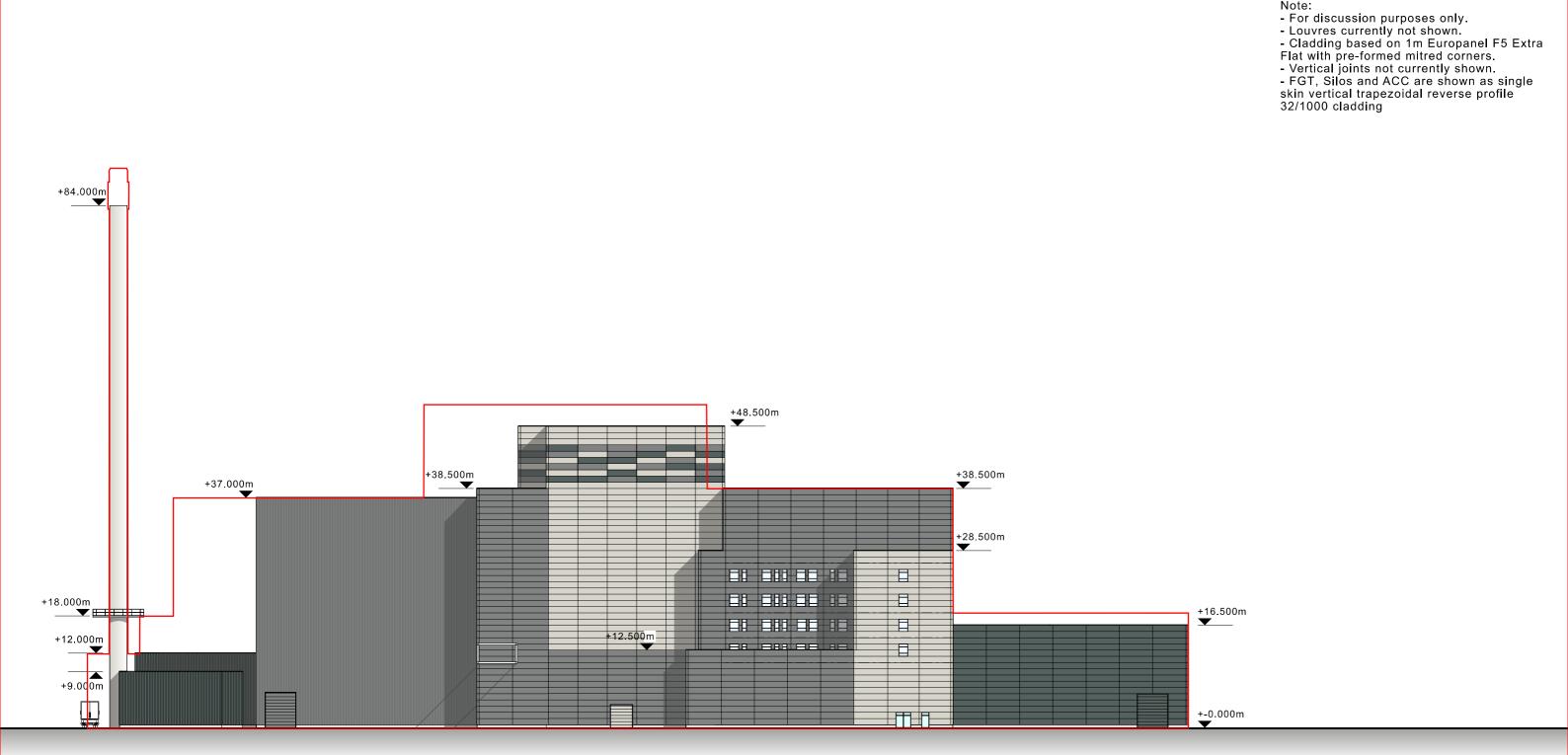
East Elevation



Note:
- For discussion purposes only.
- Louvres currently not shown.
- Cladding based on 1m Europanel F5 Extra Flat with pre-formed mitred corners.
- Vertical joints not currently shown.
- FGT, Silos and ACC are shown as single skin vertical trapezoidal reverse profile 32/1000 cladding

16236 KVI-WA-SK010_0.0 Medworth ERF Proposed East Elevation 1:600 @ A3 29.10.24



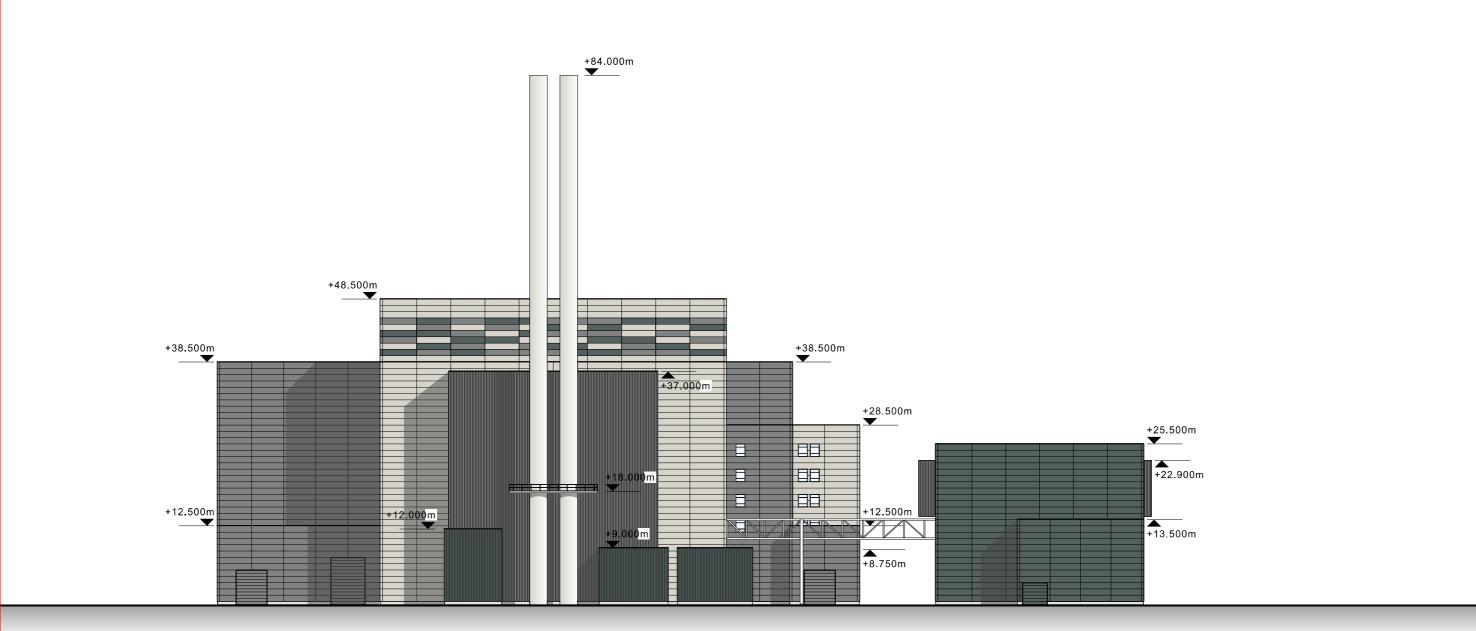


East Elevation

—— Outline taken from 3.7_i-iv-3.8-EfW-CHP-FacilityElevations (East Elevation)



16236 KVI-WA-SK010_0.0 Medworth ERF Proposed East Elevation 1:600 @ A3 29.10.24

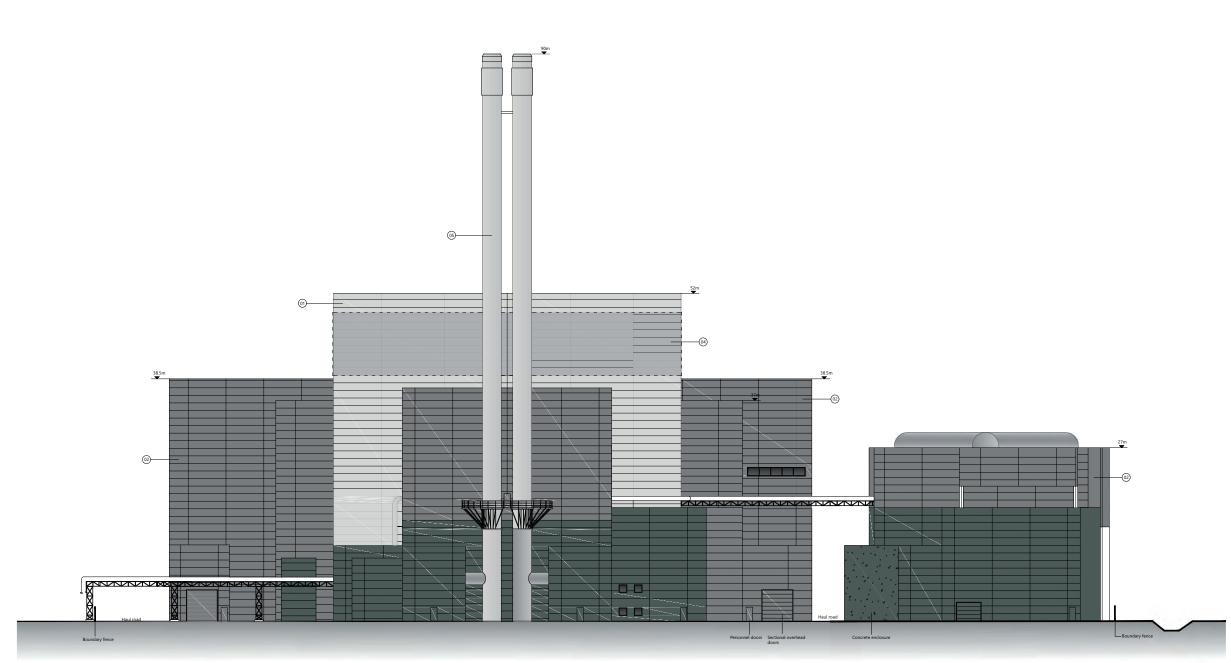


South Elevation

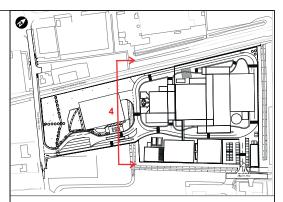


Note:
- For discussion purposes only.
- Louvres currently not shown.
- Cladding based on 1m Europanel F5 Extra Flat with pre-formed mitred corners.
- Vertical joints not currently shown.
- FGT, Silos and ACC are shown as single skin vertical trapezoidal reverse profile 32/1000 cladding

16236 KVI-WA-SK010_0.0 Medworth ERF Proposed South Elevation 1:600 @ A3 31.10.24



ELEVATION 4 (SOUTH)



Key to materials

- 01 Profiled metal cladding wall system Colour: Grey White RAL 9002
- 02 Profiled metal cladding wall system Colour: Pure GreyRAL 000 55 00
- 03 Profiled metal wall system Colour: Merlin Grey RAL 180 40 05
- 04 Kinetic cladding system final design and appearance to be confirmed

05 Chimneys Colour: Grey White RAL 9002

Note: doors match adjacent cladding colour Final selection of external materials and colours to be agreed with the relevant local planning authority



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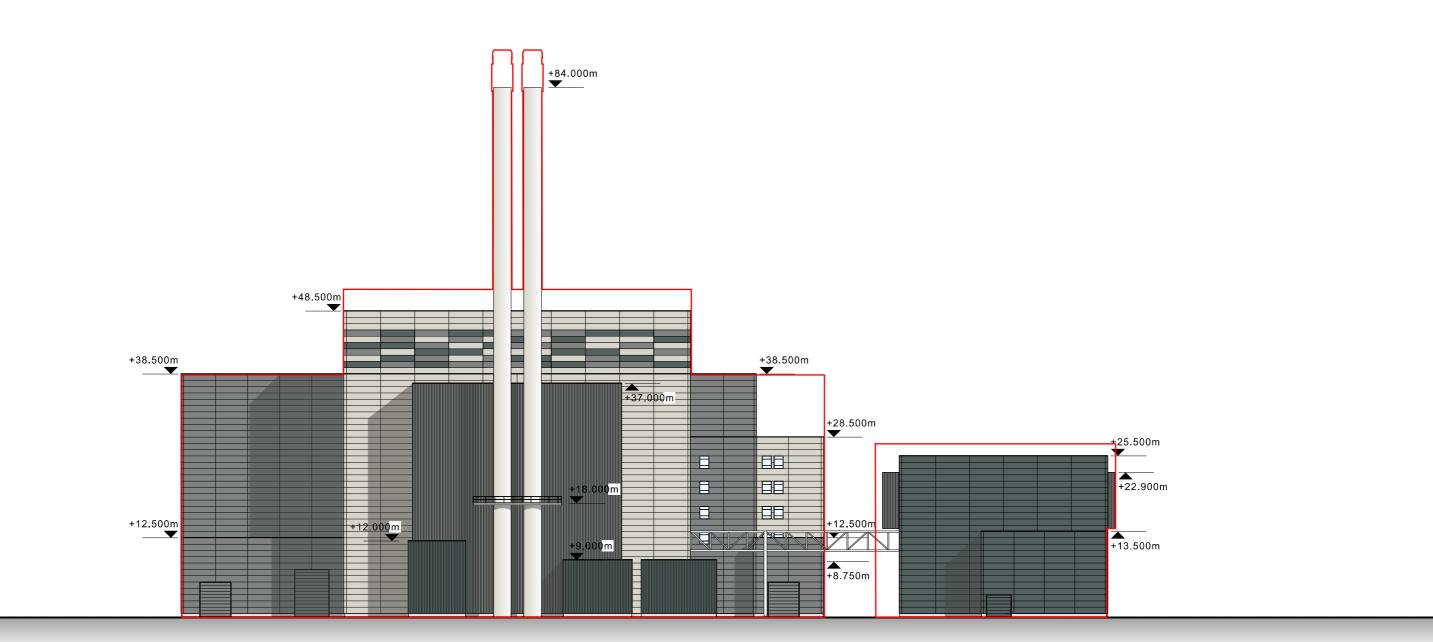
Medworth Energy from Waste Combined Heat and Power Facility **Environmental Statement** Chapter 3 - Description of the Proposed Development

Figure 3.7iv **EfW CHP Facility Elevations**

June 2022







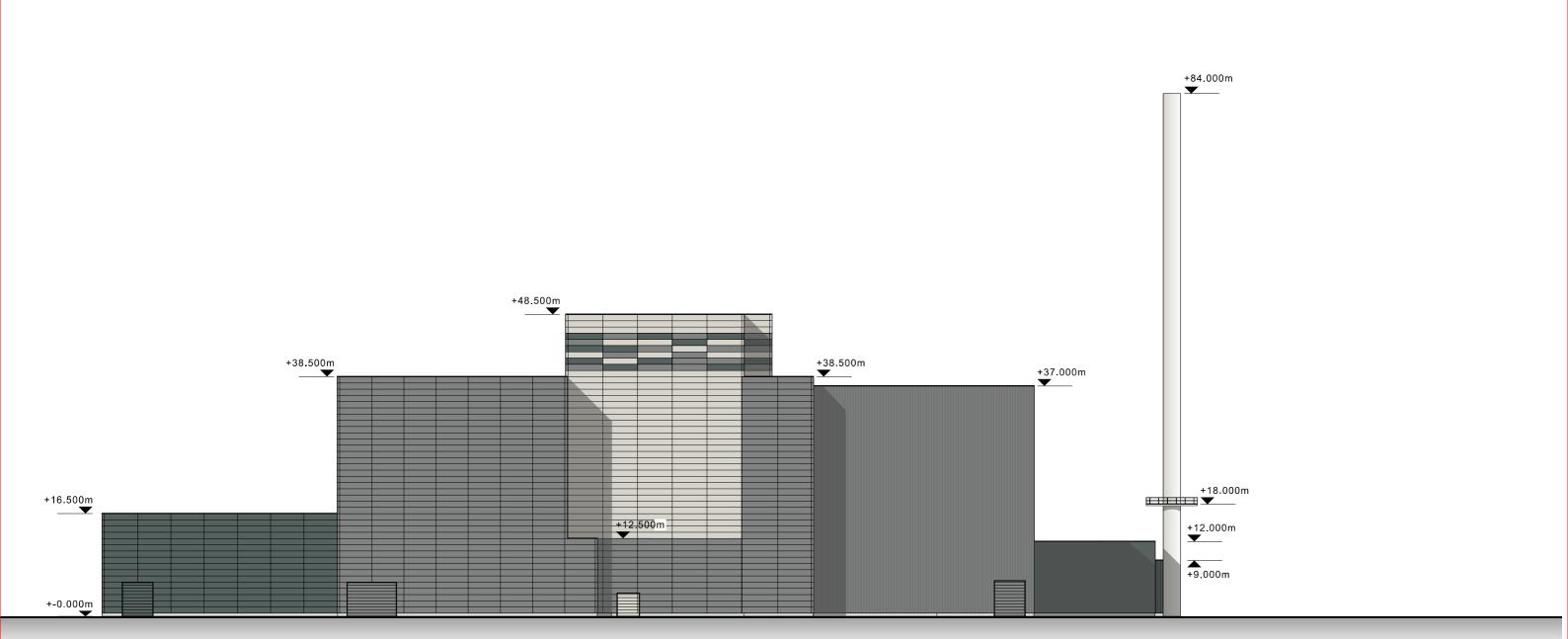
South Elevation

—— Outline taken from 3.7_i-iv-3.8-EfW-CHP-FacilityElevations (South Elevation)



Note:
- For discussion purposes only.
- Louvres currently not shown.
- Cladding based on 1m Europanel F5 Extra Flat with pre-formed mitred corners.
- Vertical joints not currently shown.
- FGT, Silos and ACC are shown as single skin vertical trapezoidal reverse profile 32/1000 cladding

16236 KVI-WA-SK010_0.0 Medworth ERF Proposed South Elevation 1:600 @ A3 31.10.24

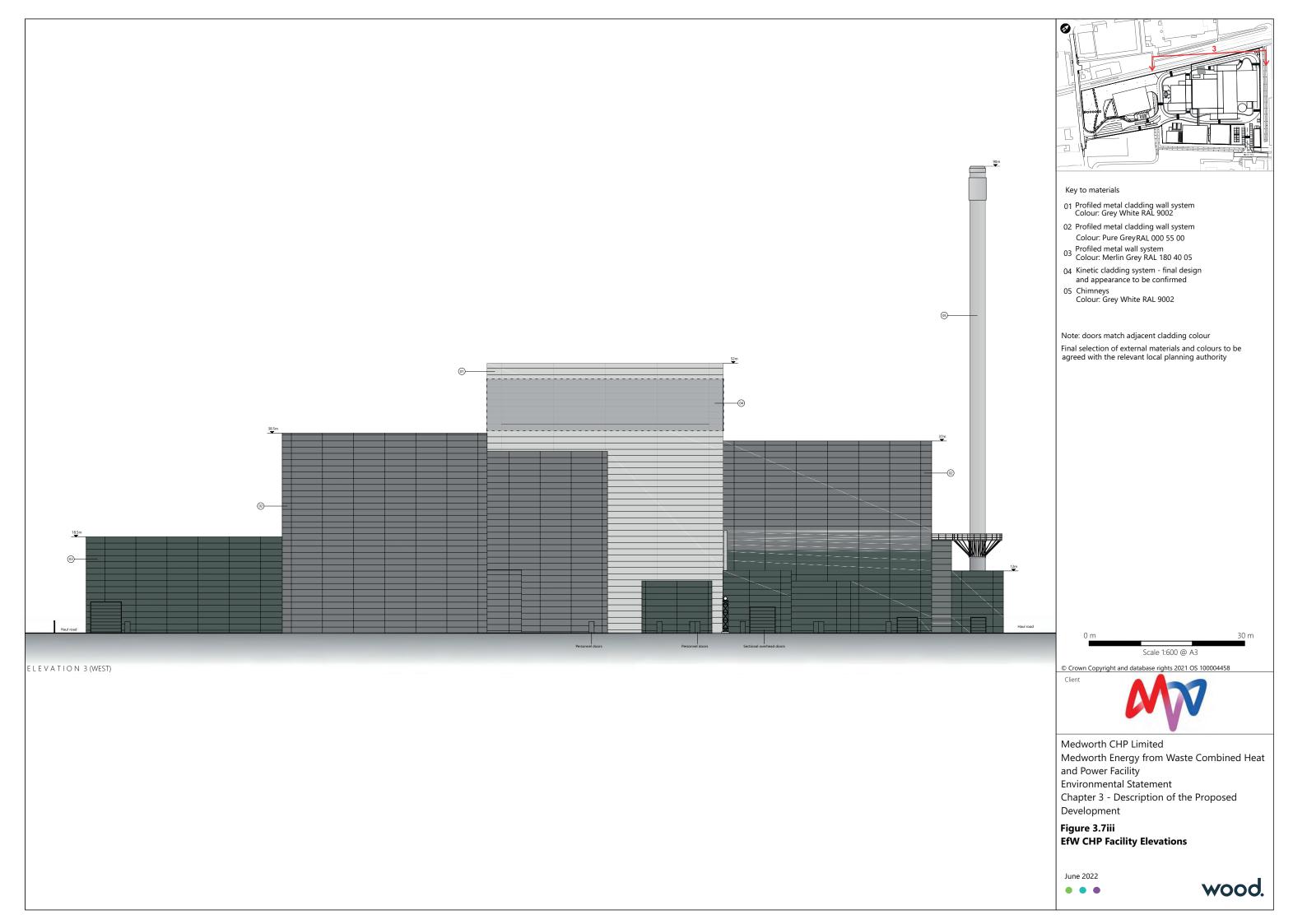


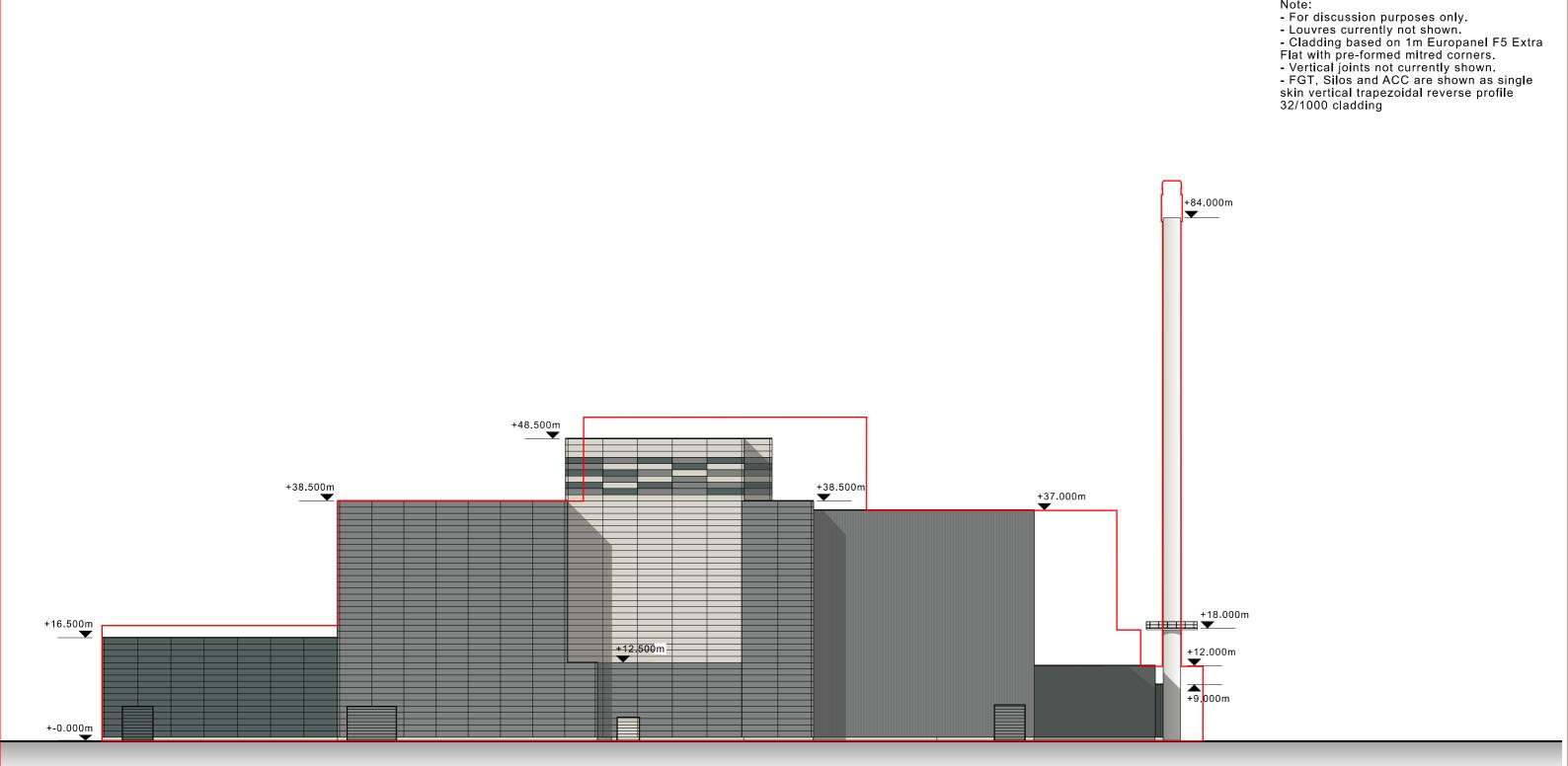
West Elevation



Note:
- For discussion purposes only.
- Louvres currently not shown.
- Cladding based on 1m Europanel F5 Extra Flat with pre-formed mitred corners.
- Vertical joints not currently shown.
- FGT, Silos and ACC are shown as single skin vertical trapezoidal reverse profile 32/1000 cladding

16236 KVI-WA-SK010_0.0 Medworth ERF Proposed West Elevation 1:600 @ A3 29.10.24





West Elevation

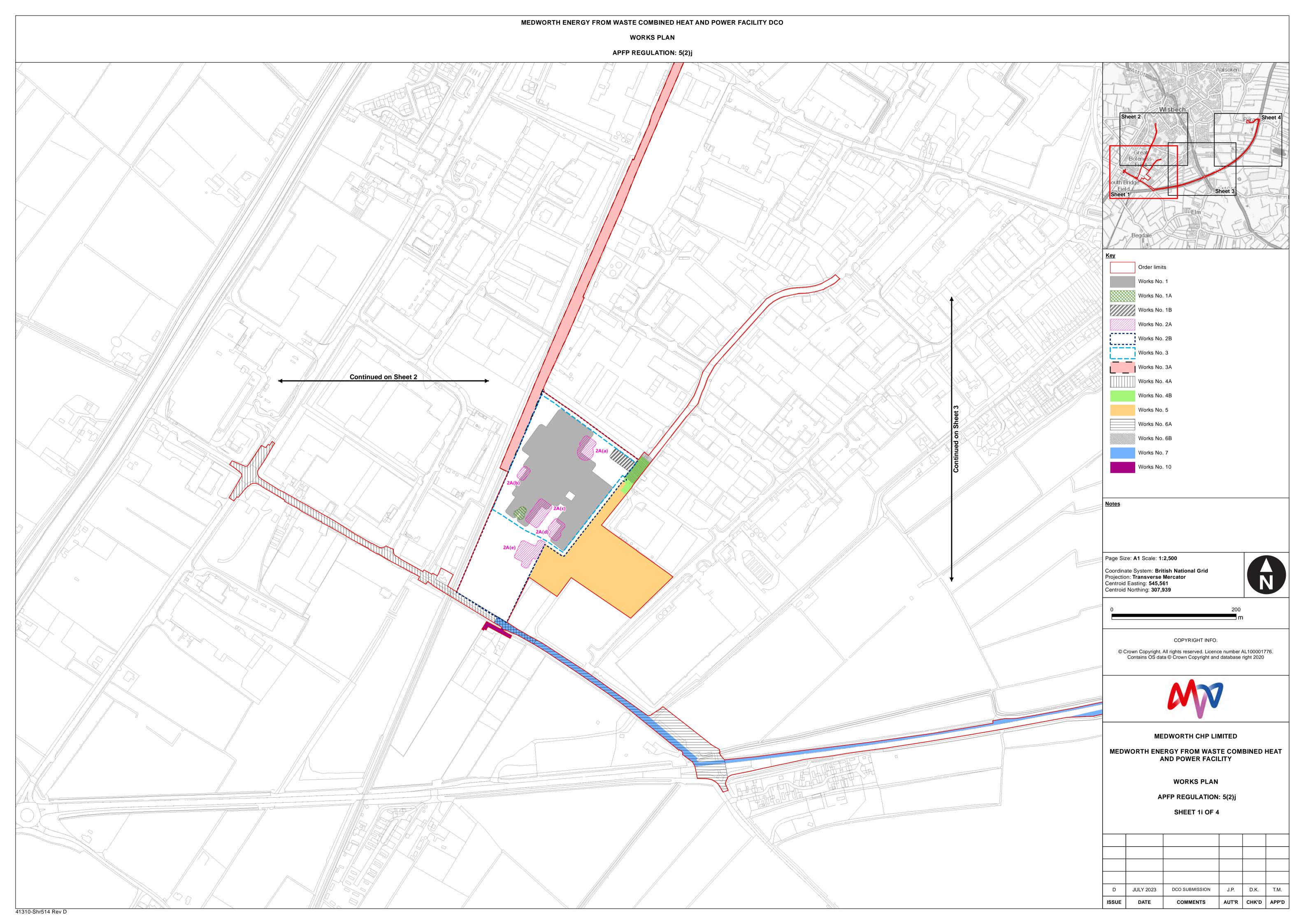
—— Outline taken from 3.7_i-iv-3.8-EfW-CHP-FacilityElevations (West Elevation)

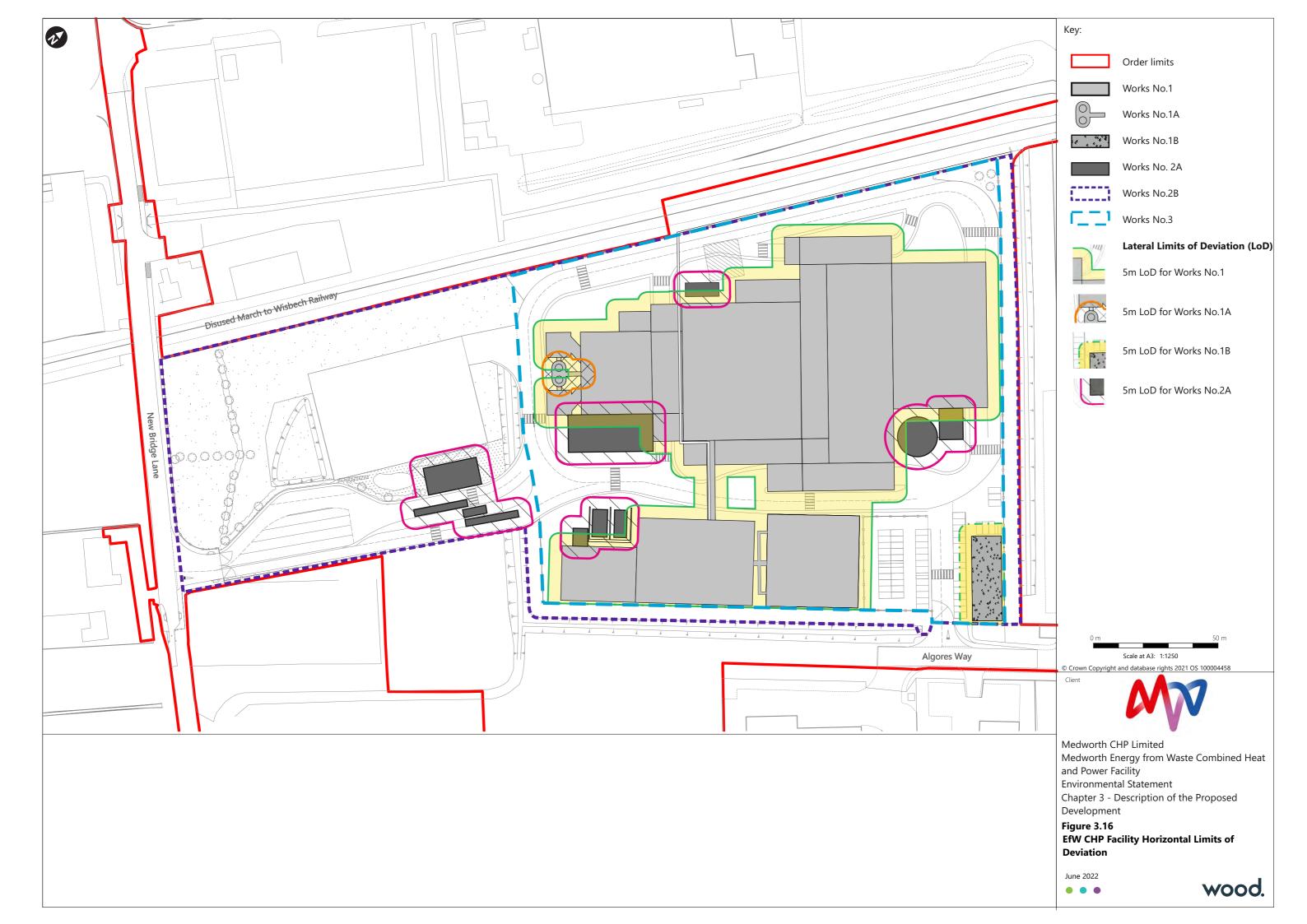


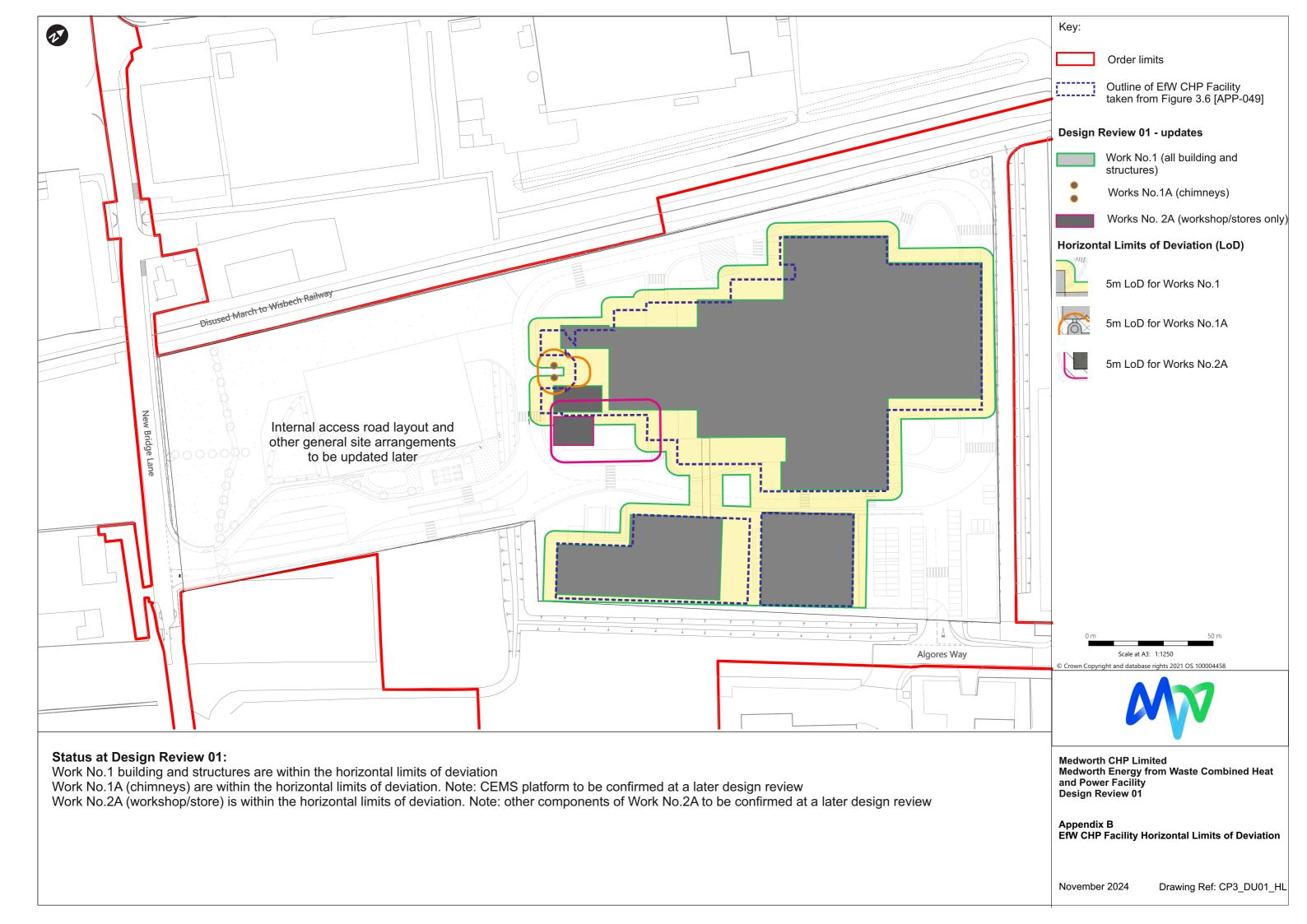
16236 KVI-WA-SK010_0.0 Medworth ERF Proposed West Elevation 1:600 @ A3 29.10.24



Appendix B Horizontal limits of deviation drawings

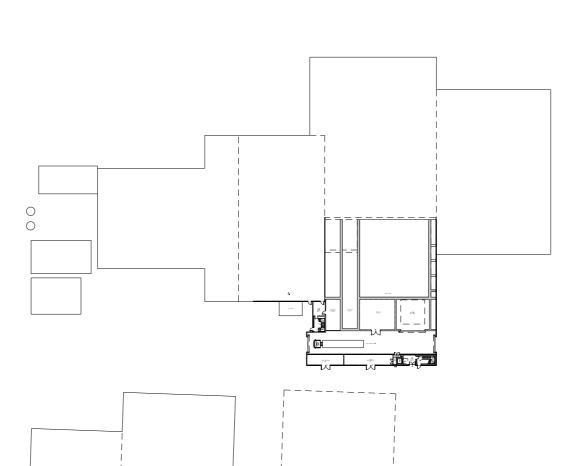








Appendix C Staff and visitor accommodation floorplans

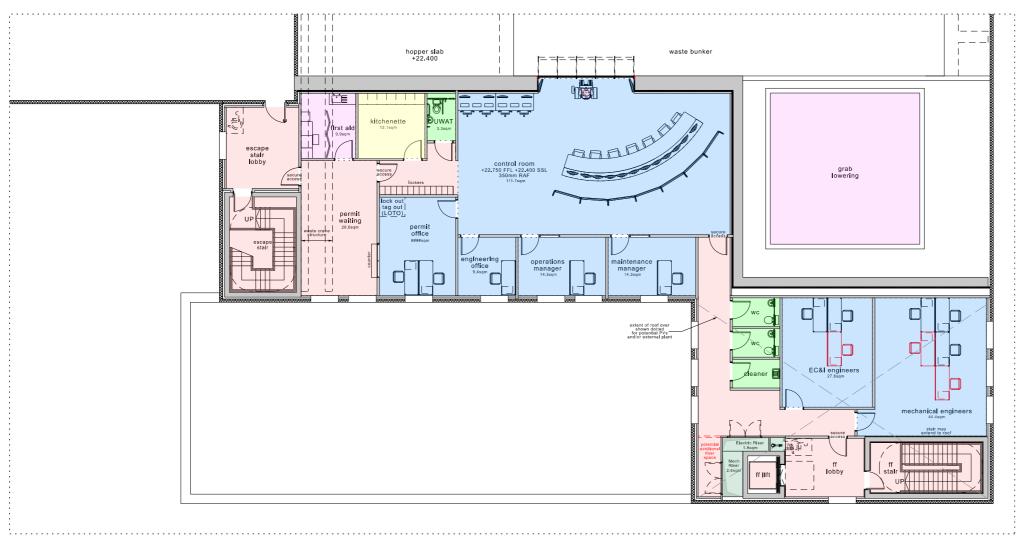


Ground Floor Plan

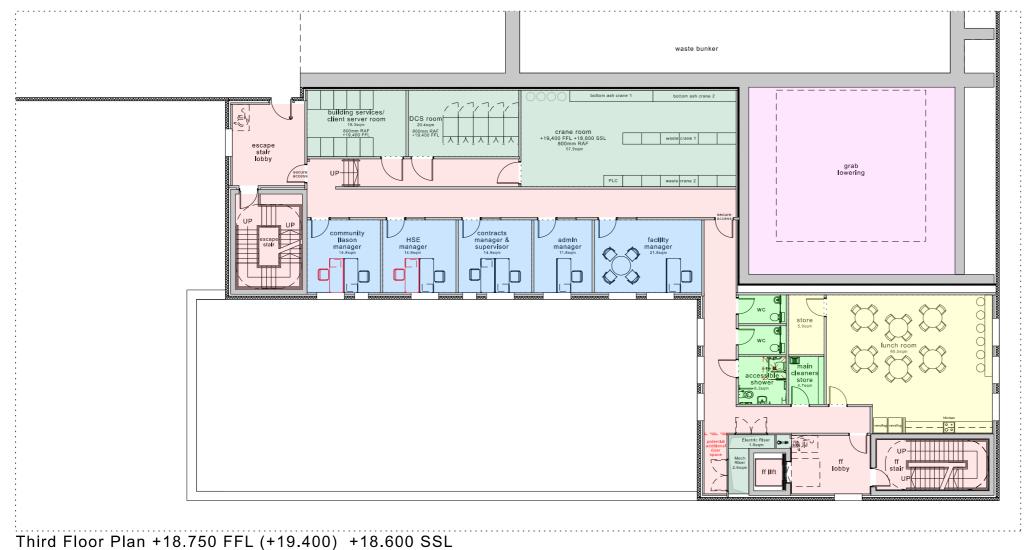
Note:
- For discussion purposes only.
- Footprint of proposed Ground Floor footprint indicated



16236 KVI-WA-SK0015_0.0 Medworth ERF Proposed Ground Floor 1:1250 @ A3 29.10.24



Fourth Floor Plan +22.750 FFL +22.400 SSL



The purpose of this plan is to establish a space definition principle and take into account requirements for Fire Service Access and travel distances, it is also subject to structural

IT IS NOT THE FINAL LAYOUT AND REQUIRES DEVELOPMENT

and MEP input.

Circulation

Offices/Meeting Rooms Main Entrance

Community Areas

Process and Ancillary Areas

WC and Welfare Facilities

Kitchenettes and Lunch Room

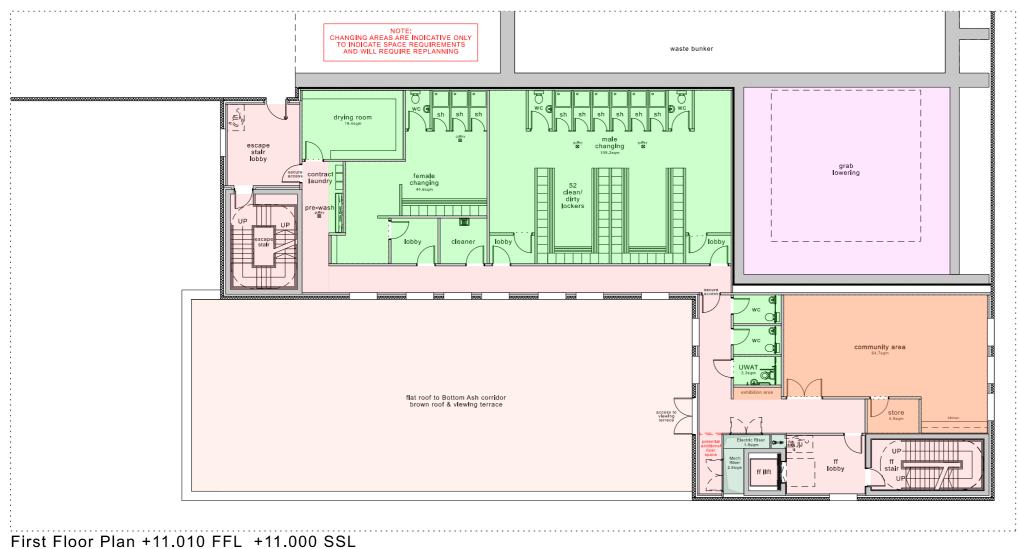
Plant, Electrical Rooms and Distribution



16236 KVI-WA-SK001_0.3 Medworth EfW CHP Admin Block Proposals Third & Fourth Floor Plan 1:200 @ A3 29.10.24



Second Floor Plan +14.750 FFL +14.600 SSL

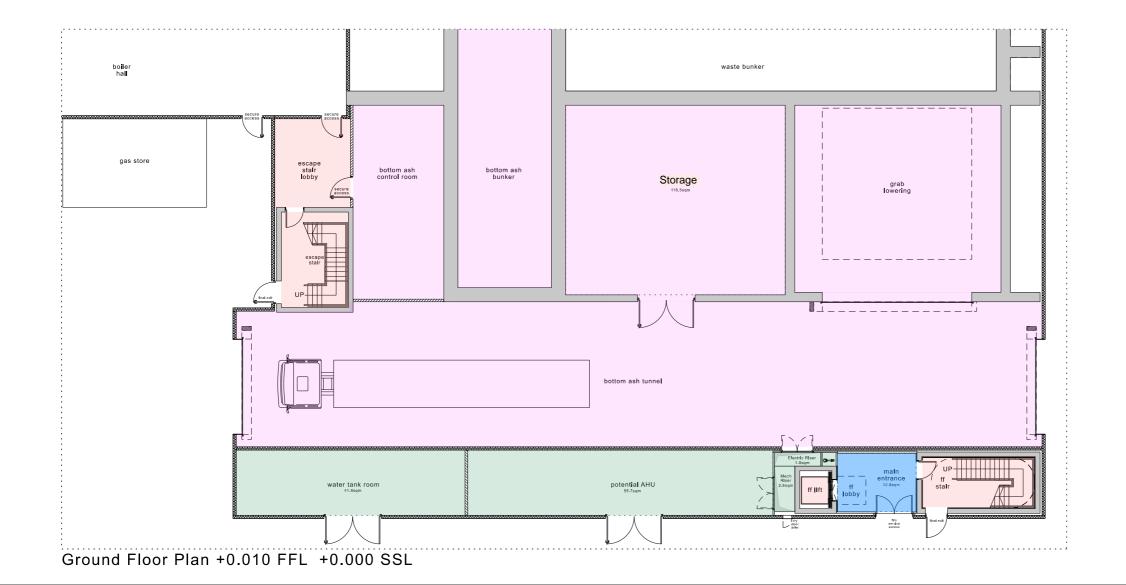


The purpose of this plan is to establish a space definition principle and take into account requirements for Fire Service Access and travel distances, it is also subject to structural and MEP input.

IT IS NOT THE FINAL LAYOUT AND REQUIRES DEVELOPMENT

. ,	
Key:	1
	Circulation
	Offices/Meeting Rooms
	Main Entrance
	Community Areas
	Process and Ancillary Areas
	WC and Welfare Facilities
	Kitchenettes and Lunch Room
	Plant, Electrical Rooms and Distribution
Νį	WEEDON Hitachi Zosen

16236 KVI-WA-SK001_0.3 Medworth EfW CHP Admin Block Proposals First & Second Floor Plan 1:200 @ A3 29.10.24



The purpose of this plan is to establish a space definition principle and take into account requirements for Fire Service Access and travel distances, it is also subject to structural and MEP input.

IT IS NOT THE FINAL LAYOUT AND REQUIRES DEVELOPMENT

Key:	
	Circulation
	Offices/Meeting Rooms
	Main Entrance
	Community Areas
	Process and Ancillary Areas
	WC and Welfare Facilities
	Kitchenettes and Lunch Room
	Plant, Electrical Rooms and Distribution
N_{a}	WEEDON Kanadevia

16236 KVI-WA-SK001_0.3 Medworth EfW CHP Admin Block Proposals Ground Floor Plan 1:200 @ A3 29.10.24

