Bromelton Energy and Resource Centre

Architecture and Landscape Design Strategy Report

BERC-ARU-BNE-ARBU-RPT-000001

ARUP



Indicative Visualisation - Administration office and Main Waste Processing Building view from entry
Note: Planting is illustrated at maturity. This indicative design is subject to design development at future design stages.

Prepared for

Cleanaway Operations Pty Ltd

Prepared by

Arup Australia

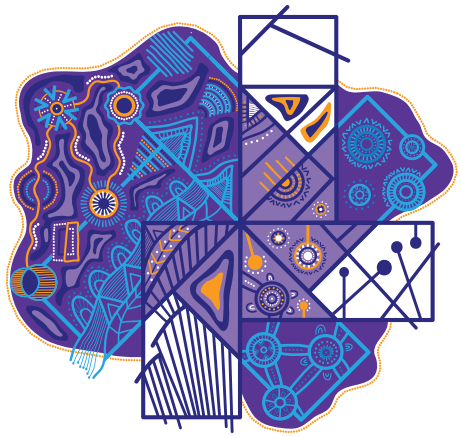
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Front cover image: Illustrative view prepared by Arup.
Note: This image is indicative only and subject to further design development

Acknowledgement of Country

Arup acknowledges the Traditional Owners across all lands, waters and skies our firm may reach; we acknowledge their wisdom, resilience, and rich cultural heritage. We pay our respects to the Elders, past and present, and to all Aboriginal and Torres Strait Islander peoples.

'Continuing to Shift to shape an even better world' original artwork by Tarni O'Shea of Gilimbaa and updated by David Williams of Gilimbaa.



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Introduction

Project Description

Cleanaway is developing an Energy from Waste (EfW) facility known as the Bromelton Energy and Resource Centre (BERC).

The Project has been designed to thermally treat a design capacity of 760,000 tonnes per annum (tpa) of waste feedstock, consisting of residual Municipal Solid Waste (MSW) and residual Commercial and Industrial (C&I) waste, which is waste that would otherwise be sent to landfill. A proportion of this energy can be categorised as renewable, based on the waste composition. The proposal involves the building of all on-site infrastructure needed to support the facility including buildings, utilities, internal roads, weighbridges, parking and hardstand areas, storm water infrastructure, fencing and landscaping.

A Visitor Centre is incorporated into the Administration Building. At the Visitors Centre, the public will be able to gain a better understanding of the processes occurring on site and learn about aspects of the energy and waste cycle.

Purpose of the Report

The Architecture and Landscape Design Strategy Report forms part of the Planning and Assessment Report for the proposed Bromelton Energy and Resource Centre at Lot 1 Beaudesert-Boonah Road, Bromelton, Queensland.

Integrating architectural and landscape design at an early stage has allowed the core design principles to be instilled in the project from the outset. The design work has been undertaken in close collaboration with the wider design team and technical specialists to ensure a holistic understanding of the technical requirements.

The design work undertaken to date represents the beginning of the design process and further development will occur in subsequent stages.

The key areas addressed in the early stage design work are:

- The built form and landscape design response to the existing context;
- Measures taken to mitigate the visual bulk of the building; and
- Initial direction on materiality and consideration of the human experience of the project, including passers-by, employees and visitors.

Report Structure

Section 01 - Cleanaway Values

Cleanaway's core values that have translated into the architecture and landscape architecture design approach.

Section 02 - Context

High level site analysis has been undertaken to understand the project context. The architectural and landscape design has also been informed through close collaboration with specialists consultants, including civil engineers, planners, ecologists, hydrologists, geotechnical engineers, and process engineers. This appreciation directly informs the site-wide design moves and provides a launch-pad for the architectural and landscape design of the facility.

Section 03 - Project Objectives and Design Drivers

The core drivers for the project are informed by the wider project priorities, context-wide strategic documents, initial input from stakeholders and overall client aspirations.

Section 04 - Architectural Approach

A series of architectural design moves encapsulate the physical design steps undertaken to address and implement the project aspirations.

The architectural design of the project reflects a thoughtful response to Bromelton's unique landscape, climate, and character. Key design elements—including building form, orientation, and material choices—were shaped by the site's natural surroundings, such as mountain ranges, valleys, and prevailing breezes. The administration building and visitor centre harmonise with the rural setting, offering both visual and climatic comfort, while the main processing facility and ancillary structures prioritise functionality and minimise visual impact through careful placement and subdued design. The façade treatments reinforce Cleanaway's brand identity while referencing the agricultural context. Additionally, the integrated visitor experience within the administration building aims to engage and educate the public about the facility.

Section 05 - Landscape Approach

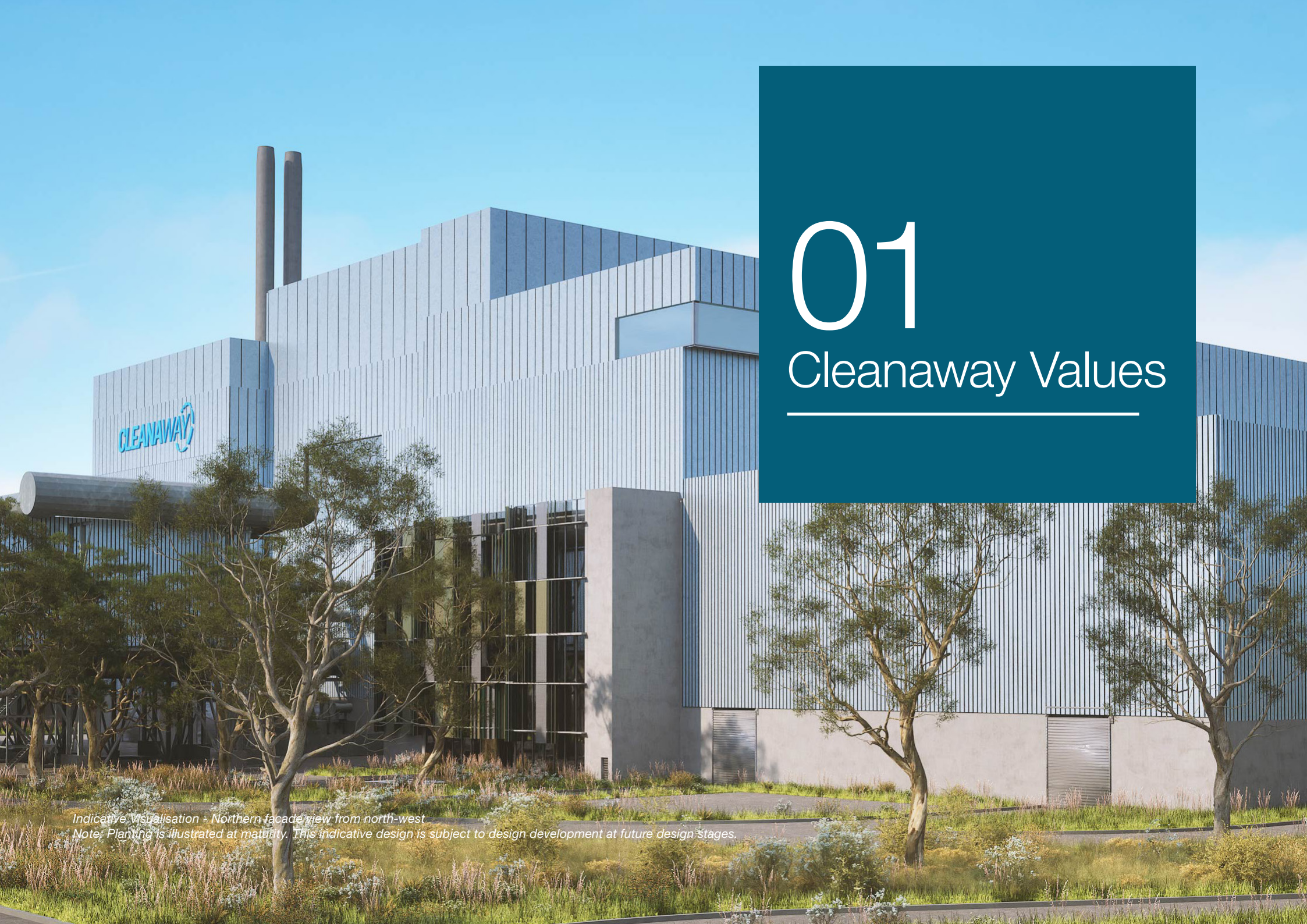
A conceptual approach is presented to the design of the landscape. This design process is informed by the unique landscape character of Bromelton and its surrounds, project aspirations, visual impact, biodiversity and user experience. There is an emphasis on the promotion of native biodiversity and resilience, which is embedded in the inclusion of native vegetation and species; and swales and bioretention ponds to facilitate movement of water and support habitats.

Appendices

Appendix A Architectural drawing package.

Appendix B Landscape architecture drawing package.

01
Cleanaway Values



Indicative Visualisation - Northern facade view from north-west
Note: Planting is illustrated at maturity. This indicative design is subject to design development at future design stages.

Cleanaway Values

"Our mission is to make a sustainable future possible – for our people, our customers, the communities where we work, our investors and our planet. We are committed to the triple bottom line of sustainability that delivers a financially strong and resilient business, contributes to a thriving and healthy population through employment and community engagement, and leads our industry to protect our planet for generations to come."[1]

Cleanaway

Cleanaway holds strong values in terms of promoting innovation and sustainability in waste management systems.

Its mission is to make a sustainable future possible, achieved through action across all levels of the waste hierarchy. Waste generation is minimised through extensive education programs, with Cleanaway's 50 education officers reaching over 120 businesses, 30 councils, and almost 33,000 school participants in the last financial year.

Cleanaway invests heavily in recycling, operating several Material Recovery Facilities nationwide and has partnered with Pact Group, Asahi Beverages and Coca-Cola to deliver two large-scale PET (polyethylene terephthalate) recycling facilities and a HDPE (high density polyethylene) recycling facility with Pact Group. In addition, in collaboration with Viva Energy, Cleanaway is developing a soft plastics recycling plant. EfW is recognised by Cleanaway as an important part of the future waste management framework, enabling recovery of energy and other resources from residual waste that cannot otherwise be recycled.

Whilst reduction of waste is the preferred waste management approach, energy and heat created from otherwise wasted resources is a step in the right direction towards a more sustainable future.

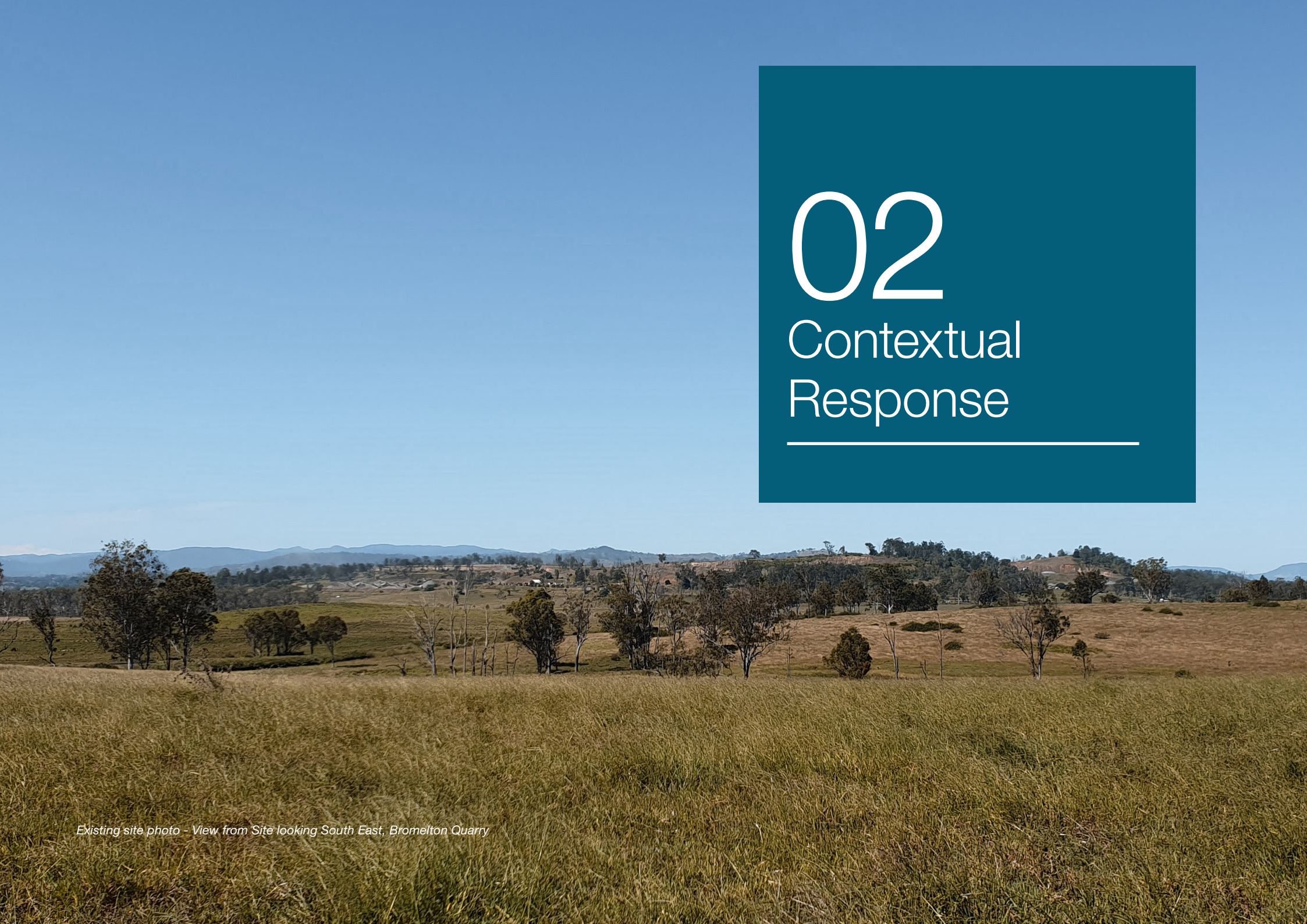
The diagram to the right shows the Waste Hierarchy and where Resource Recovery facilities such as BERC sit.

The design of the facility must instil Cleanaway's innovation and sustainability values, positioning the development as exemplar, not only in its operation but also in its wider consideration of the site context, its human interface and its interaction with the natural environment.



[1] Making a Sustainable Future Possible, Cleanaway [https://www.cleanaway.com.au/sustainable-future-hub/]

02
Contextual Response



Existing site photo - View from Site looking South East, Bromelton Quarry

The site

Understanding of context

Understanding the story of the place is key to shaping a meaningful design. This section looks at the site in its broader context and the qualities that make it unique. These insights help ensure the design is grounded, responsive, and connected to its surroundings.

This section provides background about the site, followed by describing the contextual response and site constraints for the project that have influenced the siting, massing and architectural and landscape design treatments for the project.

Location

The proposal site is located at Lot 1 Beaudesert-Boonah Road, in Bromelton, Queensland, which is in the Scenic Rim Regional Council (SRRC) local government area (LGA). The Traditional Owners of the Scenic Rim in which the site is located, are the Mununjali, Wangerriburra and Ugarapul Peoples. The registered Native Title Body Corporate for the site area are identified as the Danggan Balun (Five Rivers) People, represented by Queensland South Native Title Services.

The site for the proposed facility covers an area of approximately 63 ha. The site is located approximately 3 km east of the Dugandan Mountain Range. Beaudesert township lies approximately 7 km to the east. Being relatively close to the base of the mountain range, the topography of the site is slightly elevated at the north and south with a slight valley in between running in a south-east to north-east direction.

The site is accessible via Beaudesert Boonah Road (State Route (90)), which is located in the north. This is a State owned road that connects the town of Beaudesert to Coulson.

A freight rail line runs adjacent to the east boundary, with a drainage channel flowing in an east/west direction. Trees are scattered across the site with a larger concentration on the southern aspect.



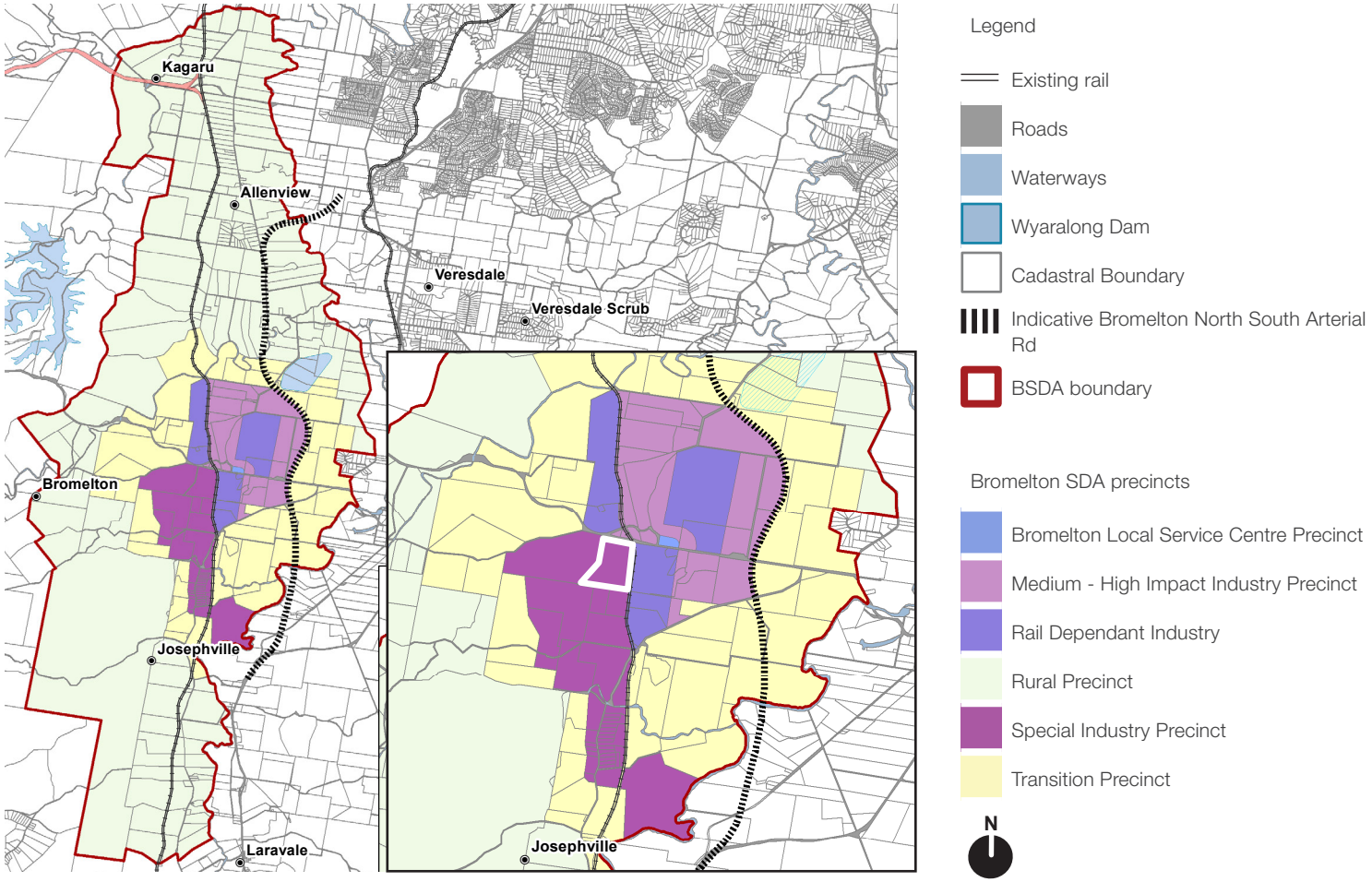
View from site looking east

Land use and planning

The site (SPI Lot 1 RP45234) is located in the Bromelton Special Development Area (BSDA), which is intended to establish Bromelton as a major industrial area for industrial development of regional, State and national significance. With access to the standard gauge rail network along the Sydney to Brisbane rail corridor, the SDA is an ideal location for industries, such as freight and logistics operations, to access intrastate and interstate markets.

There are various industrial developments on the lots opposite and surrounding the site including logistics, concrete manufacturing and recycling facilities. Neighbouring properties adjoining the site have similar landscape character typology of low-lying vegetation with scattered trees on undulating topography and open water bodies along drainage channels. Established and emerging industrial land uses are located within the BSDA and includes logistics, manufacturing operations, and recycling facilities.

The surrounding area outside of the SDA falls under the Scenic Rim Planning Scheme 2020. Residential development is not present within the site's immediate surrounds with the closest sensitive receptor located approximately 1.4km from the site, as per the Noise and Vibration Technical Report.



Land Use and Planning

The setting of the place

The setting of the site is defined by:

- Open extended views over area with clusters of shrubs and mature trees scattered over the predominantly agriculture pastureland. Backdrop vista and juxtaposition of the landform within the expansive views of the landscape. Filtered and framed views of the landscape through existing vegetation.
- The presence of industrial developments and related built forms and infrastructure.
- Vegetation patterns and the presence of water courses, drainage channels and open water bodies being closer to the base of the nearby mountain range.

This has informed the siting, architecture and landscape response for the project. This is more specifically illustrated by the following spread.



Broad vista of the landscape and setting of the site



View of existing industrial development around the site

Character and landform

The site is representative of the large agricultural plots with patches of remnant vegetation and interwoven drainage channels.

Views to the site along Beaudesert Boonah Road are through the open gaps within the verge vegetation and mature trees. The elevated position of the site's landform allows views to the surrounding open landscape and mountain backdrop.

Built form

The area is predominantly for industrial developments. The typology of the built form adjacent to the site are typical of industrial and infrastructure types built out steel and corrugated metal panels and are comprised of warehouse buildings and hardstand areas. These are mostly arranged in large consolidated clusters.

The proposed infrastructure within the BSDA is anticipated to be medium- and large-scale manufacturing, continuing the existing typology of warehouse buildings and hardstand areas.



View of the landscape with the mountains in the background and rolling landscape



Landscape and vegetation patterns



Typical built form typology



Framed and filtered views through existing screening vegetation

Vegetation

“The majority of the Site has historically been cleared of woody vegetation with only low density mature and sub-adult trees remaining. The ground layer is currently dominated by a mix of exotic and native grasses and weeds.” (Arup, 2025, p11, Biodiversity Technical Report)

Notable existing features and elements within the site are:

- Row of mature trees along the north boundary adjacent to Beaudesert Boonah Road.
- Scattered trees distributed within the site, most of which are located to the south.
- Perennial grasses predominantly to the northern half of the site.
- Mix of shrubs and native vegetation to the southern half of the site.

Hydrology

Water elements such as natural drainage channels, open water bodies and dams are prominent in the area. Sandy Creek is located south of the site. Two dams towards the middle of the site and located along the natural drainage channel running from the south-west to the north-east of the site.



Scattered trees



Existing vegetation



Agriculture fence and infrastructure



Dams and open water bodies

Contextual Response

Integrate with context

- As shown in the Precinct Map adjacent, the site is located within the Special Industry Precinct (SIP) of the Bromelton SDA. The SIP of the Bromelton SDA provides an area for high-impact and difficult-to-locate industries that require separation from non-industrial uses due to the potential for off-site impacts. The Bromelton SDA scheme prevails over local and state government planning instruments for development. Overall, this acknowledges the industrial nature of the EfW facility in relation to bulk, form and visual impact, among other things.
- There are key public viewing corridors towards the site that are to be considered and will inform the built form to mitigate visual impacts.



Precinct Map: showing adjacent SDA precincts to subject site

Legend

1 Subject Site
2 Australian Track Corporation
3 Beaudesert Central Waste Management Facility
4 SCT Logistics
5 Quick Cell Technology
6 Solico
7 Mirvac
8 AJ Bush & Sons
9 Gelita
10 Neilsen's Quarry
11 Bromelton Quarry

SDA Bromelton Precincts (Local Service, Medium-High Impact Industry, Rail Dependant Industry and Special Industry Precinct)

Existing Rail

Indicative Bromelton North South Arterial Road

Beaudesert Boonah Road

N

Design Response

The location of the facility and its ancillary buildings have been carefully considered on the site based on:

- Existing environmental constraints, such as topography, vegetation and water bodies;
- Proposed site entrance location and vehicle access roads;
- Adjacent developments and visual receptors;
- Crown easement to the west of site.

The plan to the right shows the key site constraints on the project site. It was important for the project to use the following considerations for the facility siting, form and access:

- Consolidate building and pad footprints to minimise the adverse impacts on existing land, water bodies and vegetation.
- Avoid sprawl by clustering buildings to the north of the site.

Stormwater Combined Treatment and Detention Basin

Crown Easement

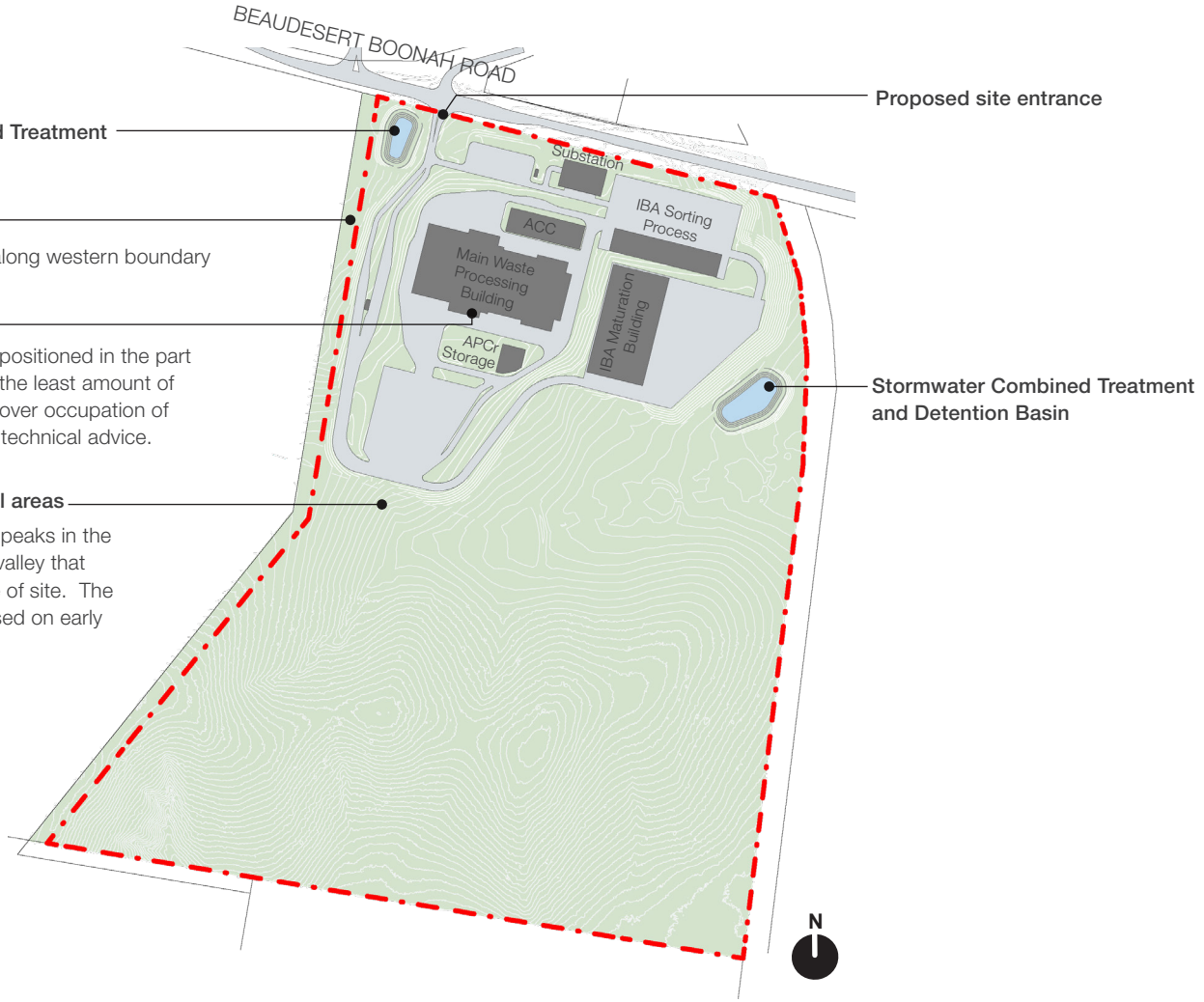
Crown easement runs along western boundary

Proposed Facility

The Main EfW facility is positioned in the part of the site that requires the least amount of cut. This was preferred over occupation of filled land based on geotechnical advice.

Suitable topographical areas

The undulating site has peaks in the north and south with a valley that cuts through the middle of site. The soil is made of clay based on early geotechnical study.



Diagrammatic plan. Not to scale.

Orientation and position

- Main EfW building is located on an existing ridge, which will be cut in providing a flat stable pad.
- Main EfW building is oriented east-west to minimise the visual bulk and visual impact to motorist driving along Beaudesert Boonah Road, as well as to developments to the east of the site, such as Mirvac.
- The north side of the administration building and visitor centre uses a façade system design to avoid direct sunlight from the east and west sides.
- The stacks are positioned to the east of the facility.
- Stormwater basins located at the lower areas on the site collects hardstand runoff for treatment.



1. View from road looking south-east



2. View from main entrance



3. View from road and rail corridor looking north-west



Diagrammatic plan. Not to scale.

Primary access points and vehicle movements

- Entrance to the site has been positioned to allow for sufficient stopping distance and visibility of vehicles entering and exiting the site, particularly coming over a crest on Beaudesert Boonah Road to the east travelling west.
- One way vehicle movement is preferred to avoid any crossovers of operational and staff vehicles.
- The staff and visitor primary vehicle route is limited to the main carparking area to reduce vehicle conflicts with operational vehicle routes. Secondary staff and visitor routes provide access to accessibility and out-of-hours parking adjacent to the administration building and visitor centre.
- Length of circulation is minimised to reduce noise impact to the site.



Diagrammatic plan. Not to scale.

Primary staff and visitor pedestrian movement

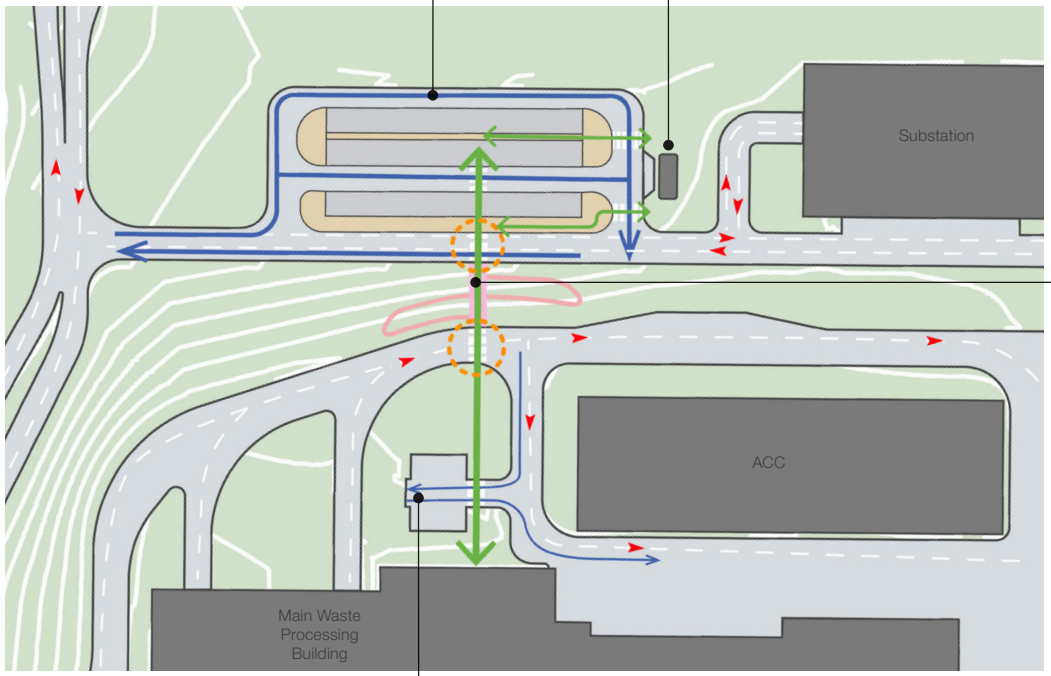
- The location of the main carpark requires consideration into the pedestrian movement for visitors and staff regularly travelling to and from the facility. A continuous path between the facility and carpark is proposed to promote a simplified route. A level difference between the carpark and facility at the embankment also requires the incorporation of stairs and a sloping walkway. Vegetation throughout the carpark and surrounding the stairs and walkway will promote shade and a comfortable journey for visitors and staff travelling to and from the facility.
- A small parking area is provided adjacent to the administration building and visitor centre which includes accessible carparks and for out-of-hours use.

Staff & visitor carpark

Located to delineate light and heavy vehicle movement

Bus shelter

Shaded waiting area for visitors being picked up or dropped off at the facility.



Pedestrian access

Access from the carpark to the main EfW building, administration building and visitor centre is provided through a direct path with a staircase and walkway at the embankment.

Person with disability carparks

Minimal carparks provided at the facility to reduce light and heavy vehicle route conflicts.

Legend

- Truck path
- Staff/ visitor vehicles
- Staff secondary/ accessible parking journey
- Key pedestrian route
- Ramp
- Stair
- Potential pedestrian/ vehicle conflict

N

Diagrammatic plan. Not to scale.

Landscape considerations

Considerations of the landscape context that shape the landscape design include:

- The scale of the facility within the landscape in both its footprint size and height.
- The physical presence of the built form being situated on elevated ground.
- Views to and from the facility, particularly from Beaudesert Boonah Road.
- The region's climatic conditions.
- Consideration that the site boundary overlaps with bush fire hazard area and impact buffer zone.
- Water catchment and on-site water management.
- Filtered views between trees and shrub massings from Beaudesert Boonah Road.



Diagrammatic plan. Not to scale.



03 Project Objectives & Design Drivers

Indicative Visualisation - Overall site view from north-west
Note: Planting is illustrated at maturity. This indicative design is subject to design development at future design stages.

Project Objectives

The following objectives were developed at the outset of the project to establish clear targets for the architecture and landscape design. The objectives are developed in close collaboration with Cleanaway and have been endorsed as the key drivers for the project, they are:

A Proud Place

- Ensure the facility is a proud place for both people who work and visit.
- Provide an excellent visitor experience that is honest and transparent about the purpose of the facility which aims to educate and inspire.
- Provide a safe and excellent working environment for employees with a focus on staff wellness.

Do More with Less:

- Ensure the design reduces the overall number of buildings and their footprints.
- Use materials efficiently.
- Ensure functional requirements are legible through the exterior finishes.
- Minimise building costs where possible.

Respect Community

- Consideration and engagement with key stakeholders and Traditional Owners to gather key inputs and impacts.
- Respond to areas adjoining the site.
- Carefully consider the building's appearance and form from key public viewing corridors.

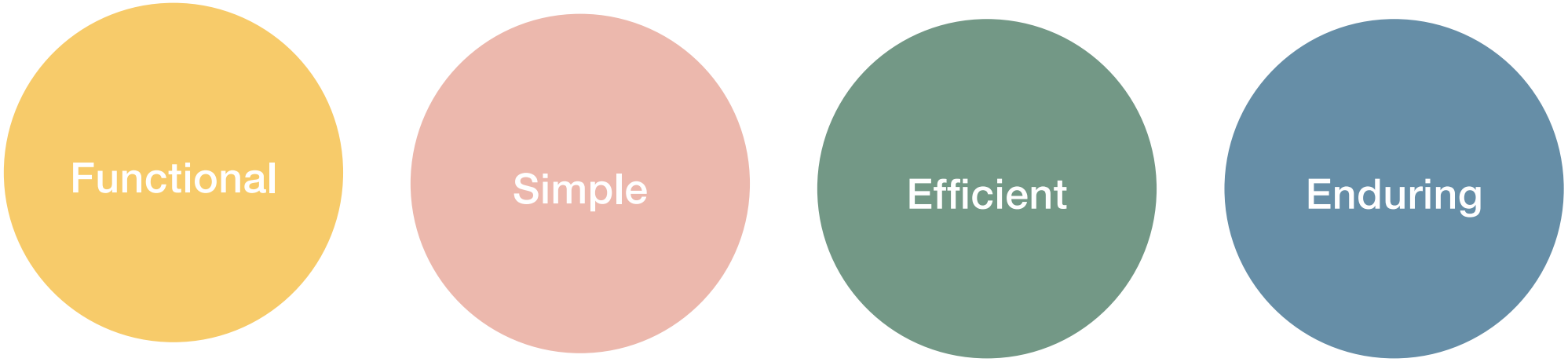
Extend Sustainable Agenda

- Embed landscape and sustainable features within the design.
- Promote a circular economy.
- Protect waterways and habitat which invigorate the wider ecosystem.
- Incorporate water sensitive design principles.
- Maintain existing landscape and habitat where possible.



Design Drivers

A series of design drivers have also been established for both the architectural and landscape design:



- Facility operates as an effective EfW facility.
- Every design decision is embedded in functionality to complement the facility's operational needs.
- The design responds to the site context and cares for the natural environment.

- No unnecessary design elements.
- Optimise and simplify the architecture and landscape, approaches where possible.
- Use the required landscape elements, such as mounds and/or stormwater basins, to add to the visual amenity for the users.

- Responsible, sustainable and economical choices with materials and design.
- Circular and regenerative principles to ensure the buildings and landscape consume less resources whilst retaining future flexibility and value.

- Enduring architecture and landscape design to be experienced through visual, experiential and social lenses.
- Inclusive and encouraging facility for operational users, administration workers, visitors and the local community.
- Lasting aesthetics that ensure the longevity of the facility, contributing to a coherent and recognisable Cleanaway identity and place-specific response.

04
Architectural Approach



Indicative Visualisation - Administration office and visitor centre entry
Note: Planting is illustrated at maturity. This indicative design is subject to design development at future design stages.

Architectural Concept

The conceptual approach is grounded in a place-specific response to Bromelton, drawing inspiration from its distinctive setting of mountain ranges, open valleys, and eucalypt-dotted rural landscape.

For the main facility, the design employs the notion of receding surfaces through layers of horizontal banding and gradating colours, which is both functional and contextual. This horizontal articulation responds to the stepped building mass while evoking the layered ridgelines that frame the site. When viewed across the landscape, the bands which mimic the surrounding mountain ranges, become incrementally more recessive, allowing the main facility and ancillary buildings to adopt a quieter, more integrated presence within the broader setting. This approach addresses visual impact, provides a simple and efficient built form, and reinforces a consistent identity that can be adopted across Cleanaway's EfW facilities and contribute to its branding identity.

At the same time, the palette for the administration building and visitor centre draws from the warm tones, silvery greys, and muted greens of the on-site eucalypts, embedding the building in the local environment. These connections to climate, vegetation, and topography are most directly expressed in the façade treatments provide shading suited to the Bromelton climate; the stepping building form that are shaped to maximise northern orientating faces and protect from the harsh western sun; and balconies and openable areas that create direct outlooks to the surrounding landscape. The potential integration of adjacent landscape at the entry further strengthens the indoor–outdoor connection, immersing users and visitors in the character of Bromelton.



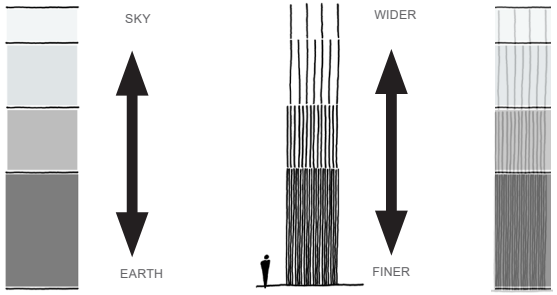
Natural layers and gradation of mountain range seen across the landscape informs part of the conceptual approach



Colour tones found on Eucalypts on site.

Architectural Concept

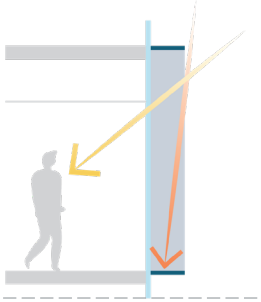
BRAND IDENTITY



The main EfW building acknowledges the wider brand identity strategy for Cleanaway facilities by reflecting the layered planes and horizontal banding.

SITE SPECIFIC RESPONSE

Local Climate



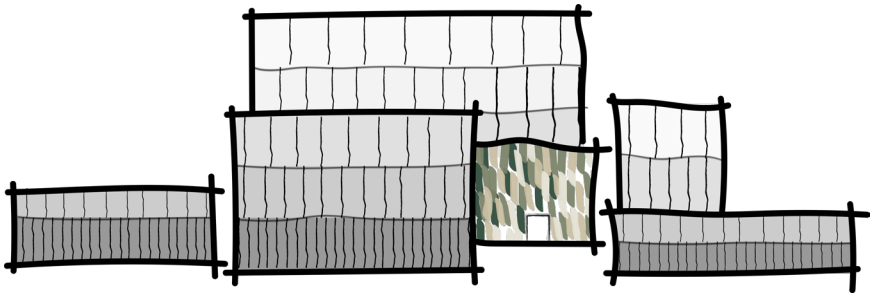
Design considers the specific Bromelton environment to produce a climate responsive design which prioritises user comfort.

Sense of Place



The user interface (administration & visitor centre) serves as a point of difference with reference to the Eucalypts found on site. Colours found on site are represented through the gradation of the facade.

CONCEPT



Together, these layers create the concept approach for the facility

Architectural Approach

In response to the design drivers and the concept of ‘layering’, a series of architectural moves are made.

These moves build on the broader site-wide design principles in order to:

- Contextually ground the project
- Establish its form in the landscape
- Mitigate its visual bulk
- Identify opportunities to benefit the local ecosystem
- Connect people to the building, both through visual perception and physical interaction.

Design Drivers:

- Functional
- Simple
- Efficient
- Enduring

1 **Respect and work with the functional massing**

2 **Introduce horizontal ‘banding’ to break up the volume**

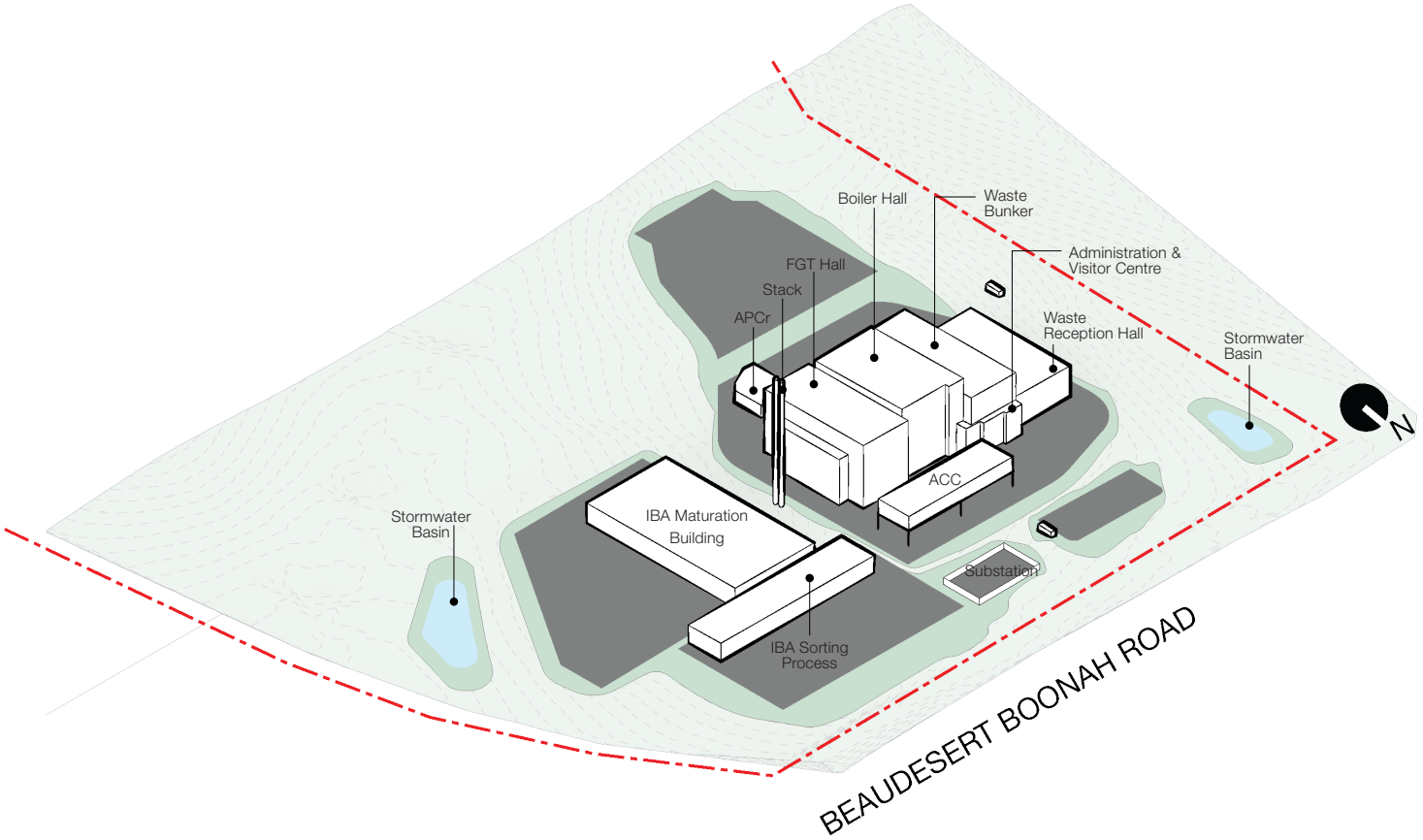
3 **Introduce small semi-transparent windows into the facility to expose internal functions**

4 **Provide a generous human interface**

5 **Rainwater capture from building envelopes**

1. Respect and work with the functional massing

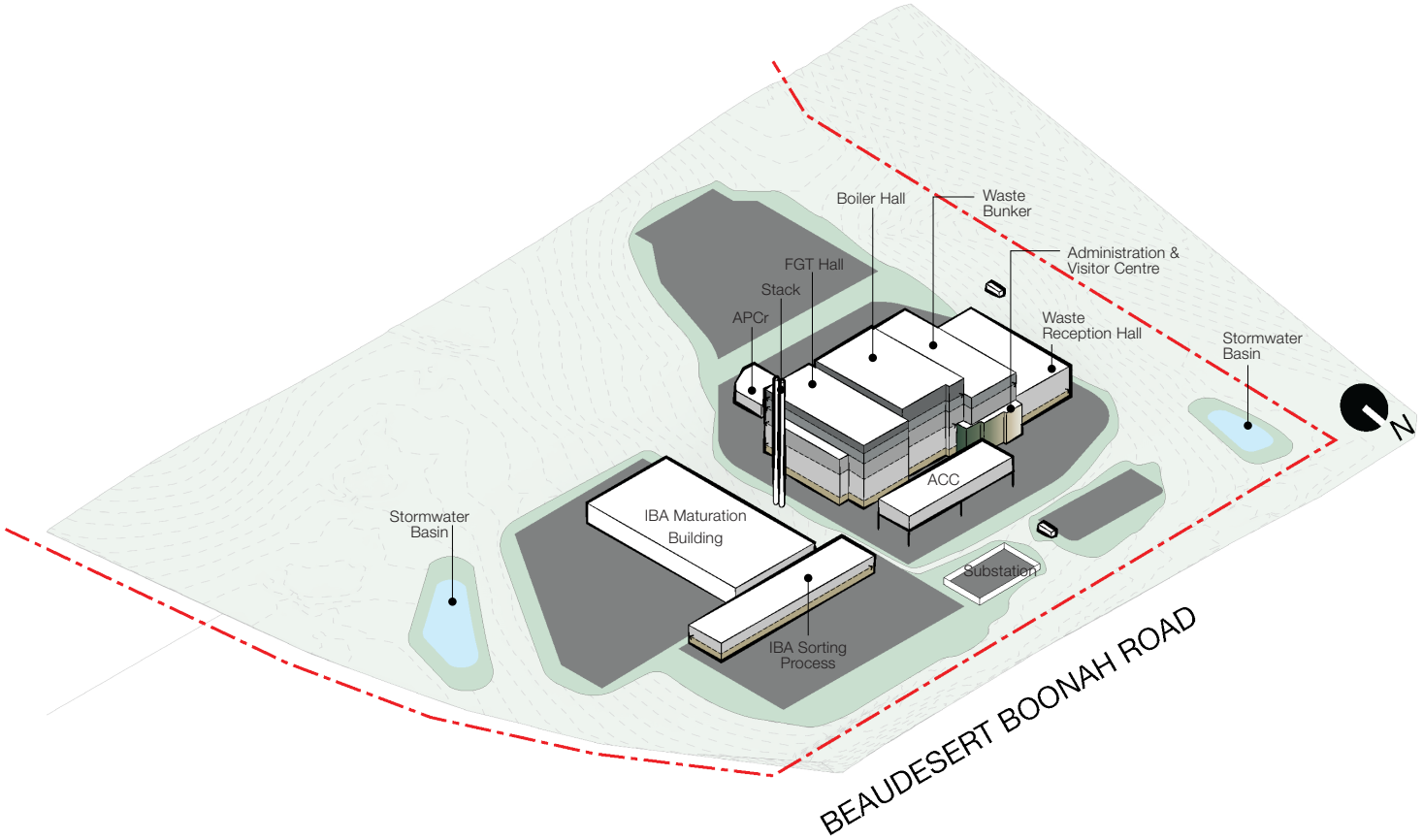
- The scale and built form of the EfW facility and supporting ancillaries are consistent with the intended land use for the Special Industry Precinct as identified in the BSDA Development Scheme. The built form approach seeks to represent the most efficient footprint and compact form to accommodate the functional operations of the facility, limiting redundant space and building heights as much as possible.
- The building façades of the EfW and ancillary facilities reflect the industrial context of the site and function of the facility.
- The administration building provides a point of difference by responding to the surrounding natural environment and context at a human-centred scale.
- Amenity is considered through enclosure of operational equipment where possible to control visual perception and acoustics.



Indicative 3d diagram

2. Introduce horizontal ‘banding’ to break up the volume

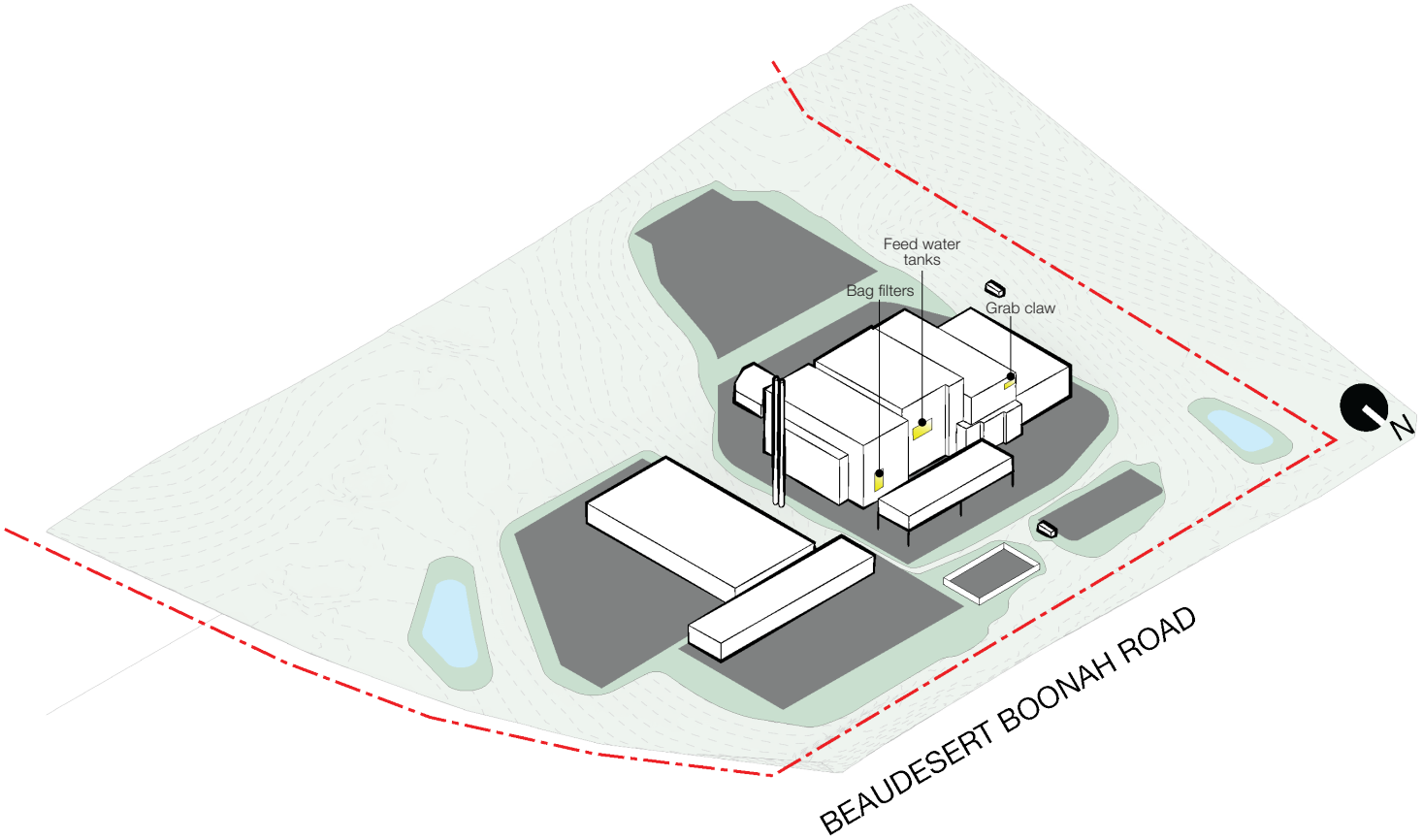
- Use simplified material palette and expression in the building envelope.
- Use horizontal divisions to break up the bulk and mass of the building.
- Concrete to be used along the lowest facade band around the main building, which caters towards the large volume of heavy vehicles circulating around the facility.
- Provide visual interest to the large façades using lightweight cladding that changes in vertical panel sizes across the height of the façades.
- Create a contextual point of difference in the facade of the administration building and visitor centre for a user focused and human scale experience.



Indicative 3d diagram

3. Introduce transparent windows into facility to allow natural light and expose the internal functions

- Allow visitors upon entrance to the facility to view pockets of the internal function.
- Create ‘transparency’ and promote public awareness of the site operations through the use of semi-transparent materials in selected areas.



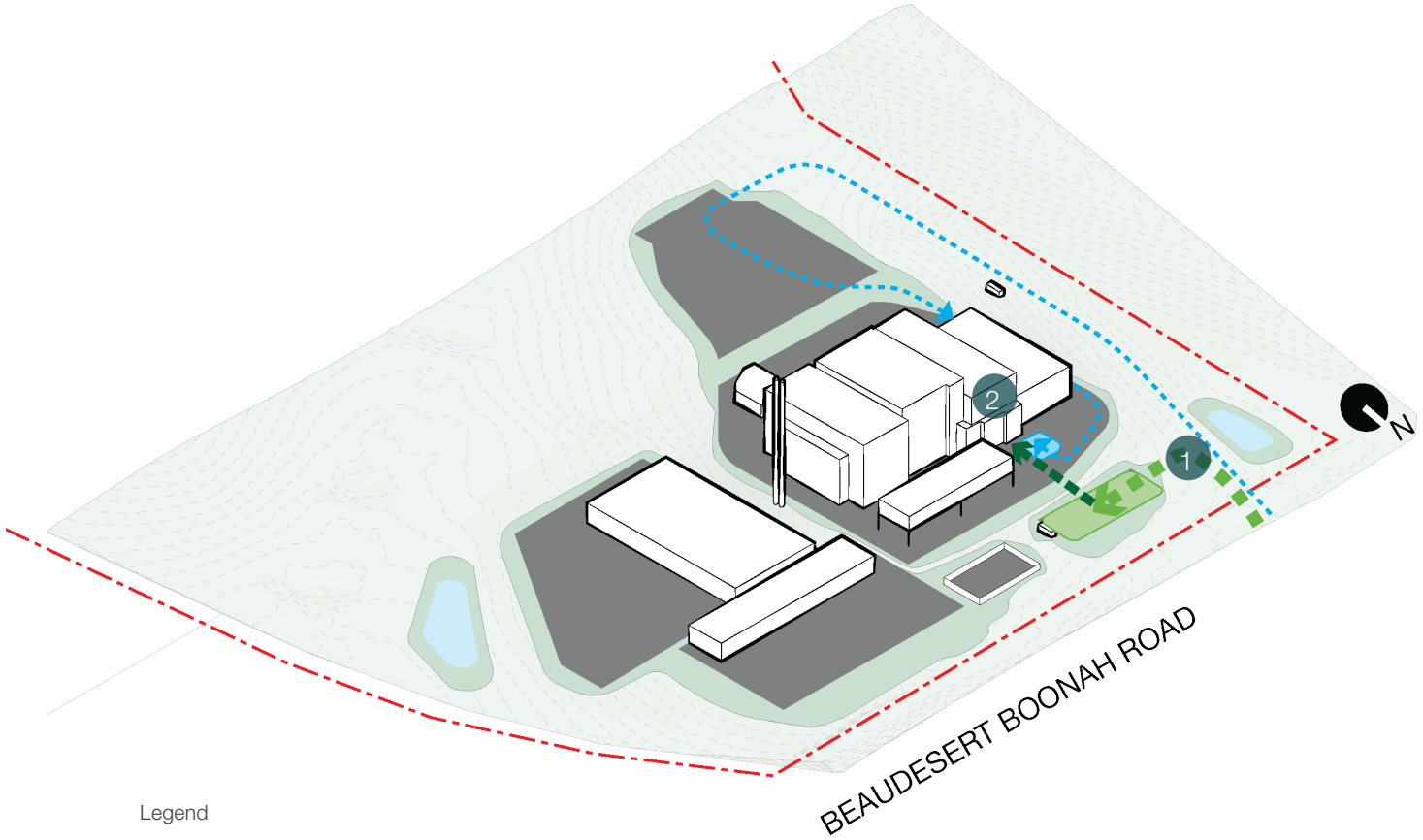
Indicative 3d diagram

04. Allow for community interactions

- Provide an identifiable and distinct building and landscape treatment around the combined administration buildings and visitor centre to celebrate the ‘front door’ through which all visitors enter.
- Showcase operations through visitor experience and promote education.
- Provide a desirable workplace for employees serving the surrounding community.
- Provide dedicated on-site parking to enable ease of access for visitors and staff.
- Provide a clear, direct path between the staff and visitor carpark and the facility.

1 Visitors park at the main carpark and travel via the staircase or walkway to the main facility.

2 Visitors arrive at the visitor centre where they are briefed on the processes occurring within the facility and are taken on a walking guided tour of the crane control room.



Legend

- Visitor vehicle pathway & carpark
- Accessible carpark & vehicle pathway
- Footpath to administration centre & visitor centre

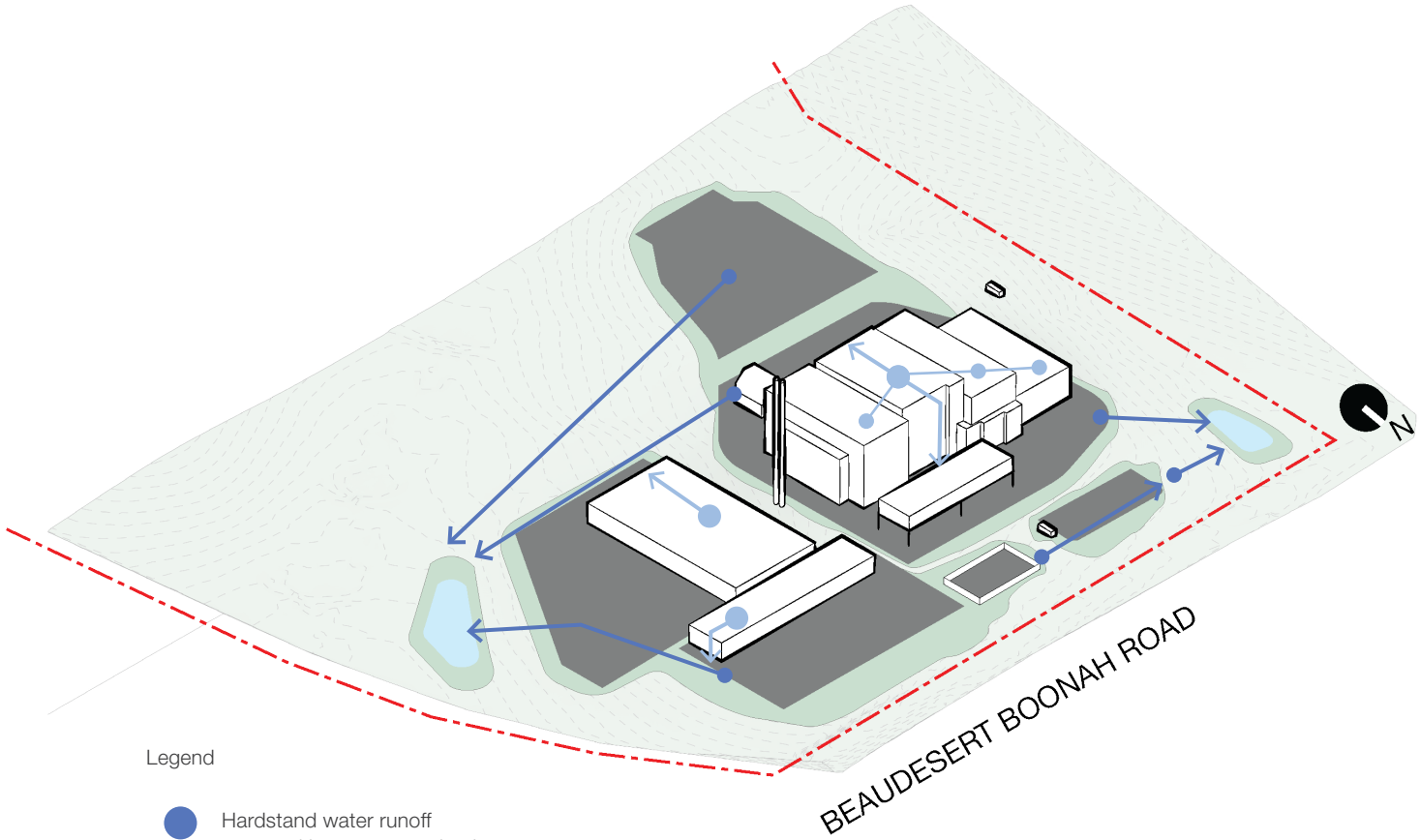
Indicative 3d diagram

05. Rainwater capture from building envelopes

- Collect rainwater from the roof for use in the EfW process.
- Positively impact the local micro-climate through new planting.
- Select materials to mitigate heat sink.
- Benefit local biodiversity through planting of native shrubs and trees and implementation of a new stormwater basins.
- Improve resilience to weather extremes and promote reuse of water through provision of on new stormwater basins.

Notes:

- Roof rainwater collection intended to be used as a source for process water.
- Individual tanks on each side of the building to serve individual process lines.
- Run-off from hard-stands will be directed to the stormwater basins.
- Stormwater basins will be dry during periods of low rainfall.



Indicative 3d diagram



Indicative Visualisation - Overall site view from north-west
Note: Planting is illustrated at maturity. This indicative design is subject to design development at future design stages.



Indicative Visualisation - Administration office and Main Waste Processing Building view from entry
Note: Planting is illustrated at maturity. This indicative design is subject to design development at future design stages.



Indicative Visualisation - Northern facade view from north-west
Note: Planting is illustrated at maturity. This indicative design is subject to design development at future design stages.



Indicative Visualisation - Administration office and visitor centre entry
Note: Planting is illustrated at maturity. This indicative design is subject to design development at future design stages.

Material Guidelines

Initial guidelines have been established to set the expectation for the visual characteristics of the selected materials. Materials have been selected with consideration of sustainable procurement practices as well as demonstrate exemplar sustainability credentials, including the consideration of the materials' source, manufacturing processes, embodied carbon, life cycle and end of life strategy. This is particularly important for the large areas of cladding to the main building.

The materials are intended to help embed the project within its setting. The overall tone of the building respects the surrounding mountains and vegetations.

Following the design principles of functionality and simplicity, the material approach is divided into four main types. Concrete treatment occurs at the base of the building, the waste bunker walls and the turbine areas. Textural treatment and the addition of pigment is applied to the concrete, ensuring the texture and colour match the adjacent cladding system in external elevation.

The administration building and visitor centre is proposed to be of steel and concrete construction, with curtain wall glazing and metal screening for the facade treatment.

The building facade materiality is required to consider State Code 1 AO5.1-AO5.4 due to its proximity to a state-controlled road.

Material Principles

Main Processing Building and Ancillary Buildings:

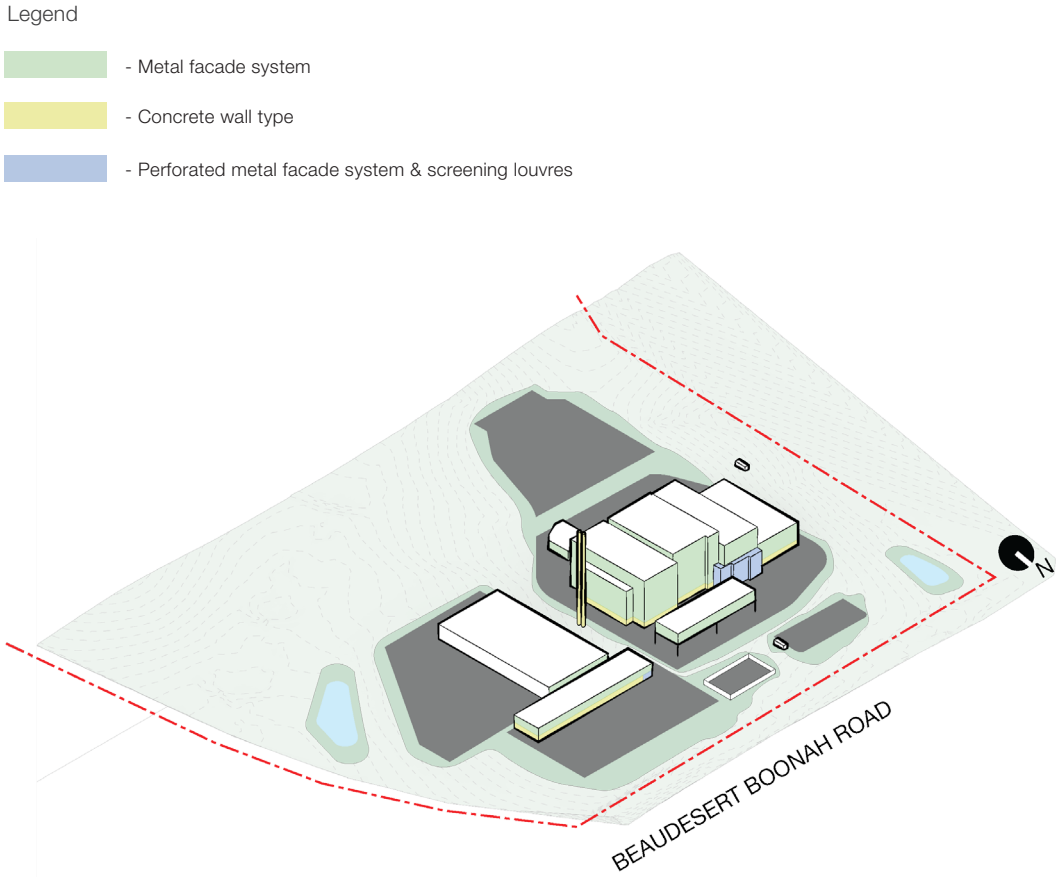
- Silver colour is proposed to facilitate recessive treatment to the surrounding site and incorporation of vegetation to mitigate visual impact of building mass.
- Subtle semi-transparent areas in main processing building facade hints at internal operations and gives the sense that building is operational and occupied.
- Horizontal banding is achieved through varying panel size and rhythm.
- Concrete base surrounding the entire processing facility for durability and functionality whilst visually grounding the building on the site.

Administration and Visitor Centre:

- Curtain wall glazing system to optimise internal light and visual amenity for both employees and visitors.
- Perforated metal louvred shading screen applied to the facade to shade internal areas and whilst framing views to the landscape.

Stack:

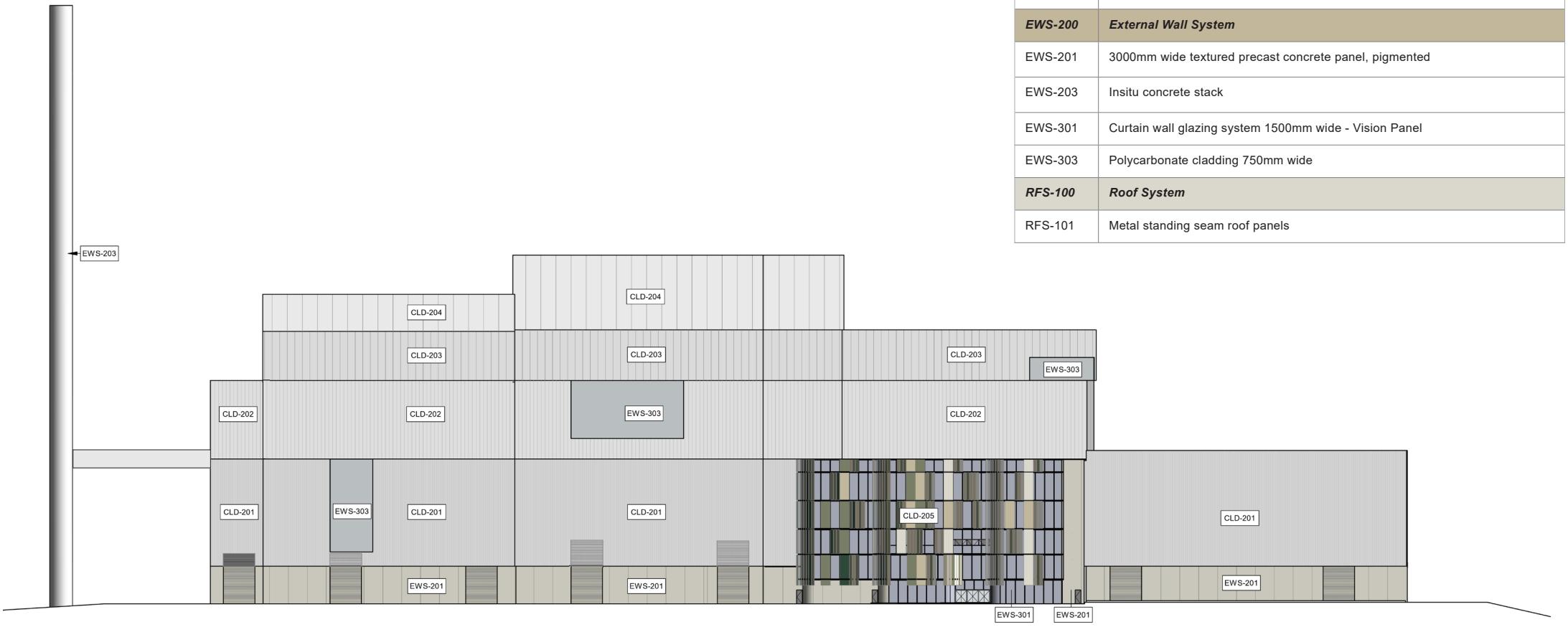
- Painted concrete as a low-maintenance treatment.



Indicative material areas

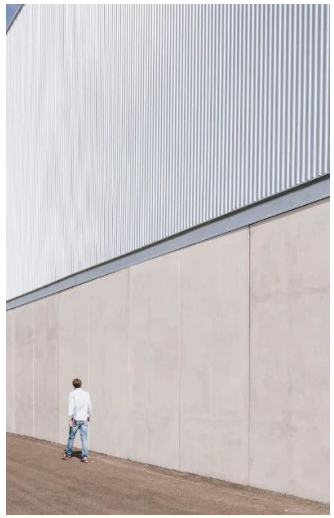
Facade Material Types

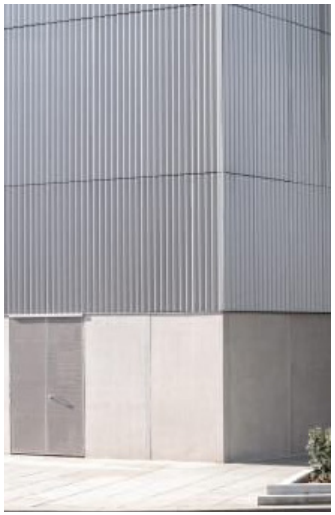
FACADE TYPES	
CLD-200	***Cladding System***
CLD-201	Metal facade system with expressed vertical fold every 300mm
CLD-202	Metal facade system with expressed vertical fold every 600mm
CLD-203	Metal facade system with expressed vertical fold every 1200mm
CLD-204	Metal facade system with expressed vertical fold every 2400mm
CLD-205	Aluminium perforated panels and screening
EWS-200	***External Wall System***
EWS-201	3000mm wide textured precast concrete panel, pigmented
EWS-203	Insitu concrete stack
EWS-301	Curtain wall glazing system 1500mm wide - Vision Panel
EWS-303	Polycarbonate cladding 750mm wide
RFS-100	***Roof System***
RFS-101	Metal standing seam roof panels



Main Processing Building Front Elevation

Indicative Palette: Main Facility



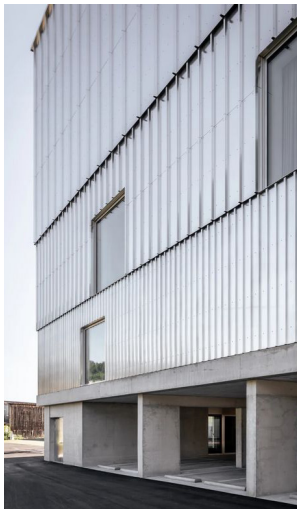


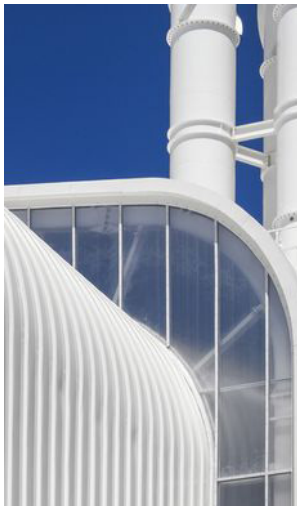




Precast concrete datum and textured concrete







Metal cladding with vertical element at varied spacing across bands

Exposed Concrete Areas

- Precast concrete for the base of the main facility for durability against frequent trucks/vehicles within the tipping hall. This approach also serves to visually ground the facility on the site.
- Vertical patterned concrete to turbine areas and waste bunker to mimic adjacent metal cladding texture.
- Use of textural variation to add visual interest.

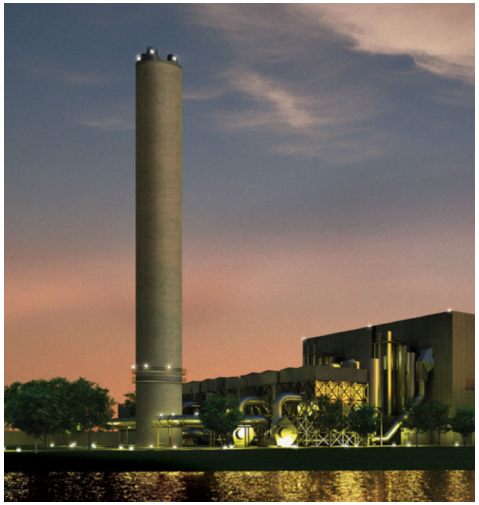
Light-weight cladding system

- Light-coloured, light-weight metal cladding.
- Varied spacing of standing seam elements across each horizontal band allows changes in rhythm as the building gets taller, reducing overall perceived bulk of the facade.
- Use of textural variation to add visual interest.

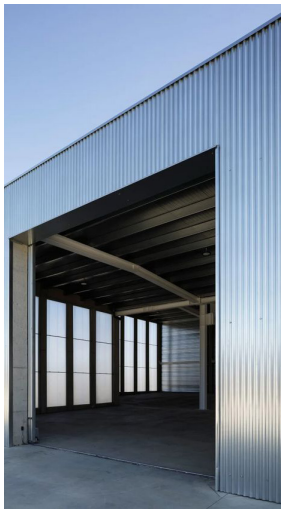
Note: All precedent imagery are indicative only

Indicative Palette: Stack and Ancillary Buildings

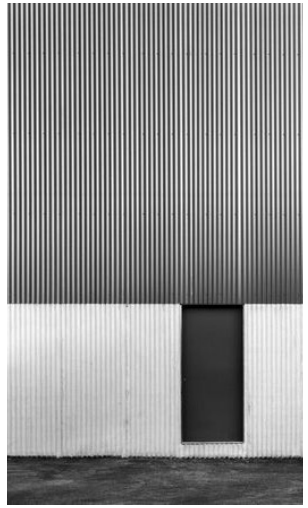




Stack treatment







Inspiration for IBA building concrete and metal cladding

Stack

- Light coloured concrete
- Minimal texture

Ancillary Buildings

- Lightweight metal cladding to match the vertical pattern of the main facility cladding
- Opportunity for economic benefit through uniform and standardised panelisation
- Ancillary buildings to read as a unified design with the main facility, whilst maintaining recessive expression.

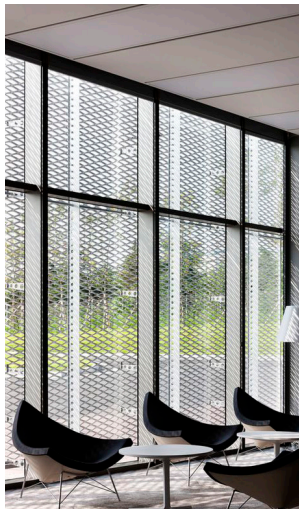
Indicative Palette: Administration Building and Visitor Centre





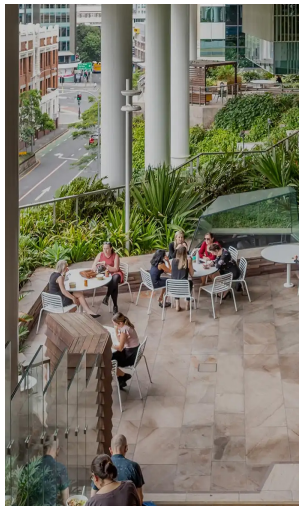
Curtain wall with colour back





Perforated metal panels and louvres





Outdoor spaces with integration of landscape

Curtain wall glazing system

- Simple curtain wall system for visitor and administration buildings.
- Allows natural light into internal spaces for user amenity and well-being.
- Increases energy efficiency by using treated and glazed glass, reducing heat lost gained by building.
- Increases internal connection to landscaped areas outside through views provided by glazing.

Louvred shading system

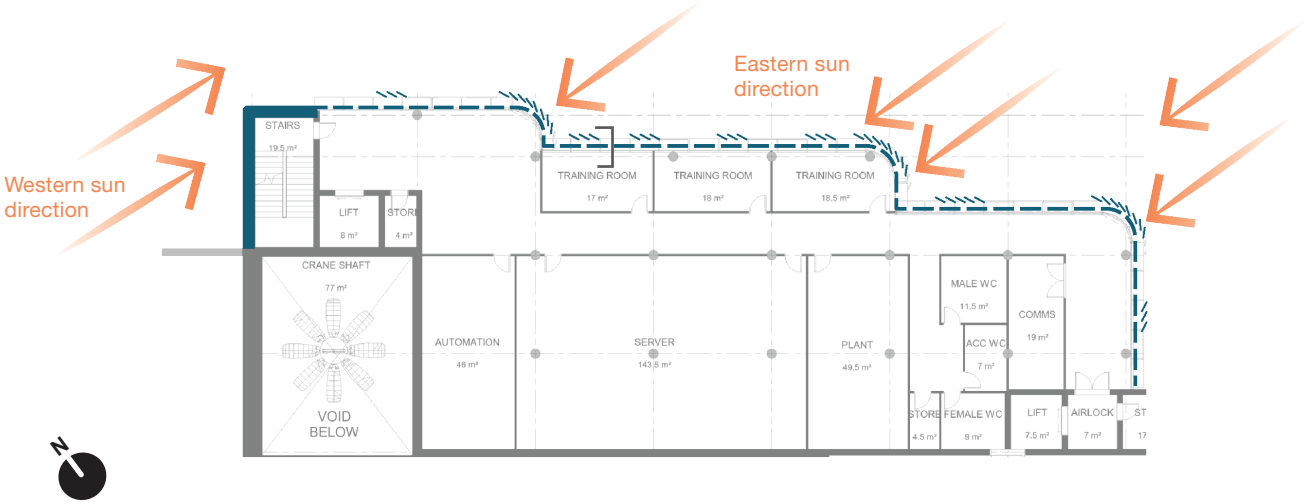
- Notionally perforated metal panel shading system with subtle colour to reduce solar heat gain to glass façades.
- Alternative colour and scale of metal louvres distinguishes these human-scaled spaces from the main facility.
- Screens views of the substation and adjacent ancillary buildings whilst focusing views to landscaped areas.
- Accessible gap between glass facade and louvres for easy and safe maintenance.

Integration of landscape, outdoor spaces and operable louvres

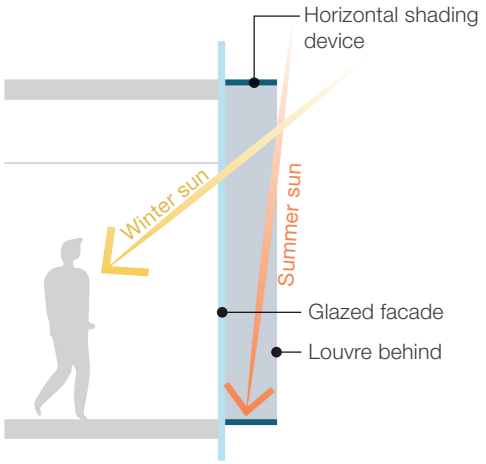
- Introduction of landscaping to provide visual interest to staff at the administrator building lobby and common area only.
- Operable louvres are suggested where possible to aid with cross ventilation during the warmer months.
- Outdoor spaces, such as balconies, are provided to embrace the indoor-outdoor connection, reflective of the local climate and place.

Administration building & visitor centre facade

The administration building and visitor centre facade has been designed to consider thermal comfort for users. The facade is designed with a ‘stepped’ approach to block western afternoon sun and directs louvre blades to avoid morning eastern sun. The solid wall of staircase core is efficient to block western afternoon sun. A horizontal shading device is also implemented at each floor to minimise northern summer sun penetration but encourage the northern sun during winter.



Administration & visitor centre plan



Sun study - typical section

Visitor Centre

The Visitor Centre is to inform the community and public on circular economy, recycling, resource recovery and process of converting waste to energy. The Visitor Centre is located within the ground floor of the administration building, creating a welcoming and accessible entry and front door.

Visitor Centre spaces: connection to outdoor

Locating the visitor centre at the ground floor provides an activated front door to the administration building, along with reception and formal staff entry. Glass façades at the ground floor open it up to surrounding views and promote connection to the outdoors.

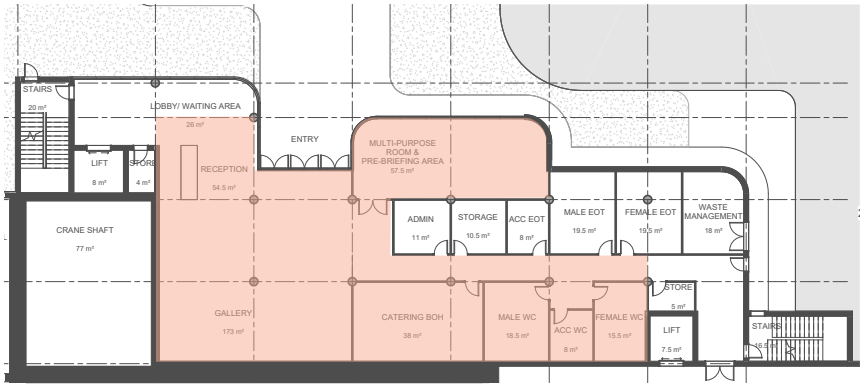
Visitor Centre spaces: gallery space

The gallery space is provided as display areas for visitors to interact with. An adjacent multi-purpose room is also provided for breakout sessions, pre-briefing, teaching, training and presentations.

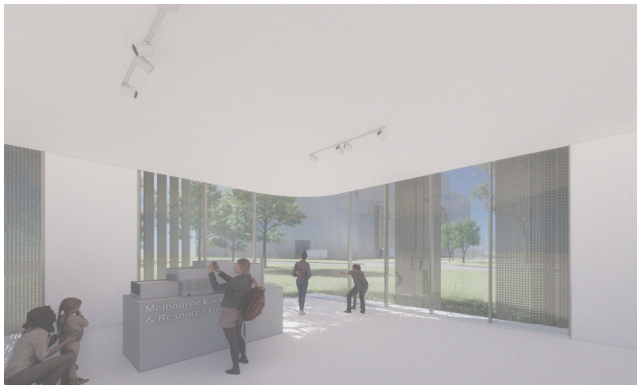
The Visitor Centre allows for approximately 30-40 visitors, predominantly from arranged tour parties, from local schools and from community groups.



Indicative visualisation - Visitor Centre



Visitor Centre Plan



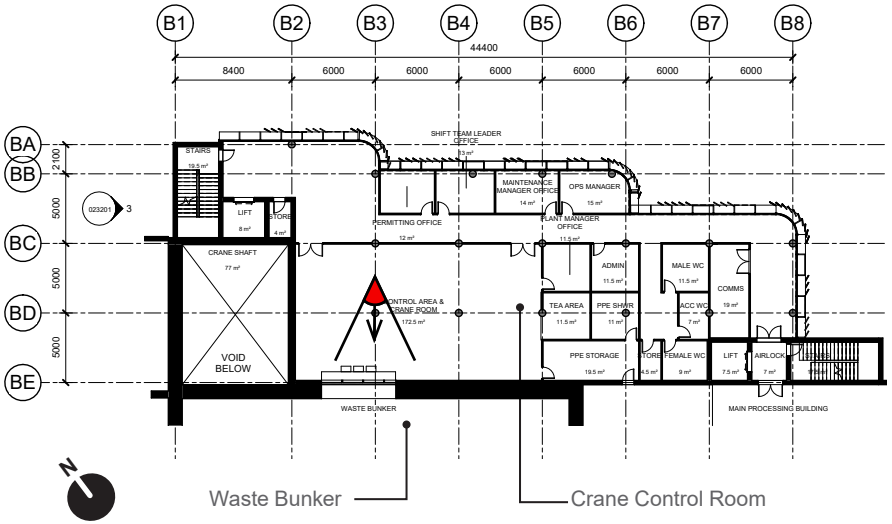
Example of gallery space with screened views of the surroundings



National Centre for Horticultural Science and Learning, UK

Crane Control Room

This area allows visitors to witness the operation of the cranes and the control room.



Plan of crane control room in Administration Building



Indicative view



The Gomi Pit Bar, Tokyo



The Gomi Pit Bar, Tokyo

05
Landscape Approach



Indicative Visualisation - Administration office and Main Waste Processing Building view from entry
Note: Planting is illustrated at maturity. This indicative design is subject to design development at future design stages.

Landscape Approach

In response to the design drivers a series of landscape architecture moves are made.

1. **Working with the existing site conditions and topography**
2. **Revegetation and restoration of the landscape opportunities and creation of native habitat areas to contribute to the region's biodiversity corridor.**
3. **Using landscape elements to provide natural buffer and screening to the site and buildings**
4. **Stormwater run-off capture and on-site treatment as water sensitive urban design initiative**
5. **Reuse of excavated site materials within the landscape treatments**
6. **Providing trees and landscape treatment for visual amenity throughout the facility and to the visitor areas**
7. **Landscape treatment that responds to the region's climatic condition and considers climate and environment resilience.**

Design Drivers:

- Functional
- Simple
- Efficient
- Enduring

Landscape concept design

The landscape design creates an inviting and welcoming workplace that recognises the local setting and considers the environment and the community. This is achieved through thoughtful plants and materials selection to provide amenity and improve biodiversity using vegetation that complements the architecture of the buildings.

The design was developed to comply with aspects of the following policies:

- Bromelton State Development Area Development Scheme, 2017.
- Scenic Rim Regional Council, Planning Scheme 2020, Part 3 Strategic Framework
- Scenic Rim Regional Council, Planning Scheme 2020, Schedule 6.2.2 Planning Scheme Policy 2 Landscape Design

The following pages describes the landscape design moves about the landscape design.

Sustainability initiatives

The following are key sustainability and biodiversity objectives of the landscape design:

- Select endemic plant species for habitat creation and to enhance the opportunity for foraging for native fauna.
- Increase tree canopy cover for shade and to mitigate against radiant heat generated from the hard paved areas.
- Introduce vegetated swales and stormwater basins for collection and on-site treatment of stormwater runoff from roads and hard paved areas.
- Opportunity to use of recycled wastewater generated by the facility for irrigation purposes.

Design response

The following points outline the key aspects of the landscape design for the Project and are illustrated on the Design response diagram:

- Retain existing mature trees where possible to maintain the existing landscape character.
- In accordance with the Bromelton State Development Scheme, the landscape incorporates a minimum of 50% native species, selected for their durability and adaptability to local conditions. This approach enhances site biodiversity and supports the low maintenance objectives of the Project.
- Use vegetation as a screening element to frame and control views to and from the facility, with consideration of bushfire risk where appropriate.
- Provide landscape treatment that considers visitor and employees experience from the arrival point at the visitor centre and their journey within the facility.
- Incorporate Water Sensitive Urban Design (WSUD) elements such as vegetated swales and stormwater basins in the landscape treatment as stormwater management measures.
- The landscape design aim to blend the Project to the site topography and landscape character.
- Incorporate built elements such as gates and fences as part of the landscape treatment and features for an integrated approach to design.
- Positively impact the local micro-climate within the site to mitigate the urban heat island effect through minimising extents of hard paved areas, proving planting areas and shade trees where possible and material selection.
- Provide a space for learning to improve awareness for the community about waste.
- Landscape treatment predominantly provided to areas affected by the construction activities. Proposed landscaped areas outside this footprint will be for screening and visual impact mitigation purposes identified in the Landscape Visual Impact Assessment report.



Design response diagram

1. Using trees of different sizes to screen and control views to and within the proposed development.
2. Placing taller trees around the IBA area as wind break elements.
3. Incorporate wind barrier to shield IBA area.
4. Capture surface stormwater runoff into swales and bioretention basin.

Legend

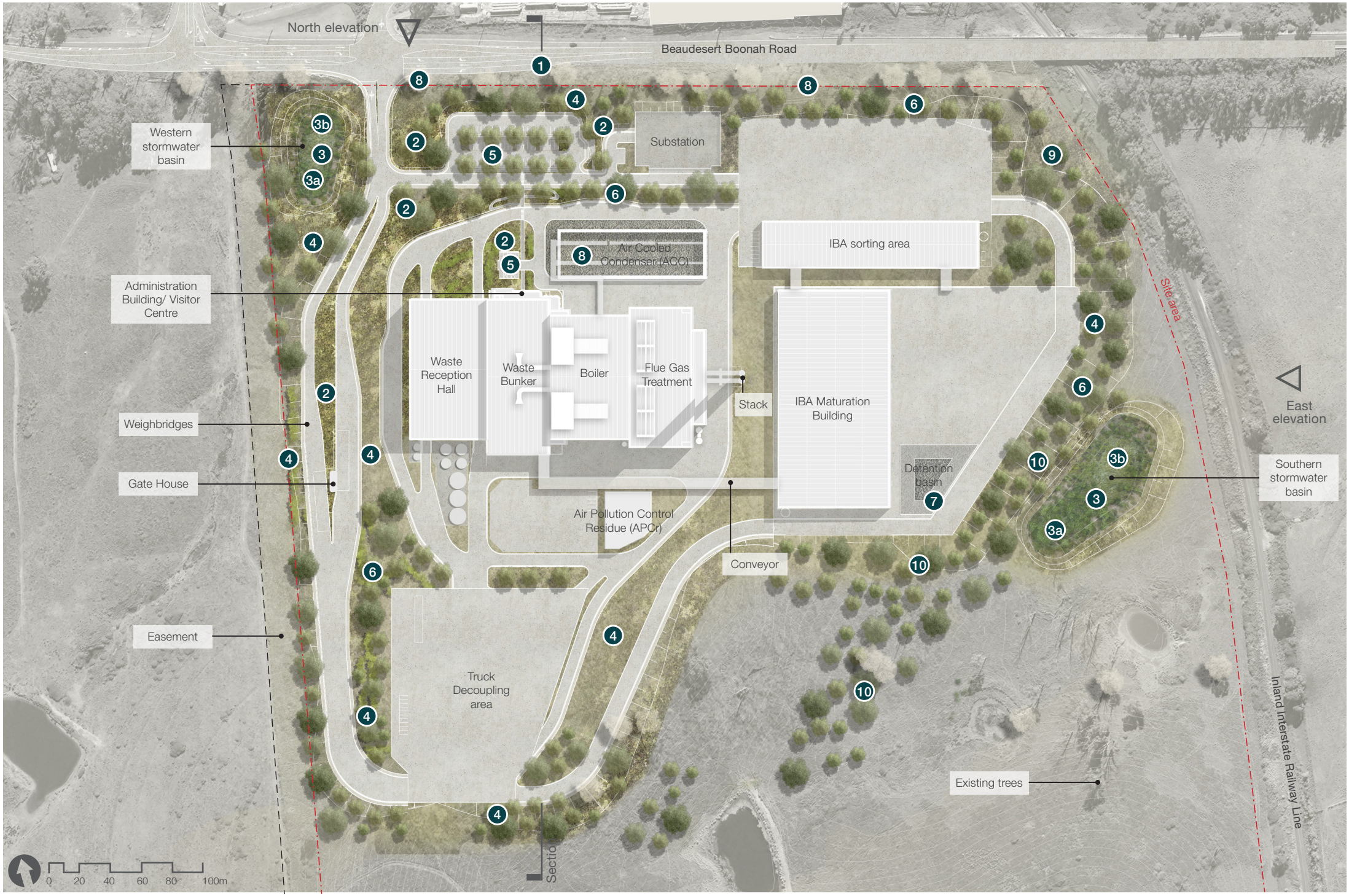
- Site area boundary
- Existing trees
- Scar tree
- Screening using trees and shrubs
- Filtered views
- Key views
- Wind direction
- Combined treatment and stormwater basin
- Early Planting
- Wind barrier

Landscape concept plan

1. **Arrival:** formal access to the facility.
2. **Accent planting:** the planting design assists with directing users to the visitor centre upon arrival to the site. This includes a dense understorey of native grasses and herbaceous plants which express seasonal variance in colour and texture. The palette references the rolling eucalyptus grasslands and hillsides of the Logan River floodplain, characteristic of the Bromelton area. This palette occurs at key arrival points including visitor centre area and at the main facility building administration area including along visitor travel route within the facility.
3. **Combined treatment and detention basins:** comprised of a bioretention basin (3a) and an on-site detention basin (3b) and planted with riparian vegetation including sedges, grasses and rushes to support improving water quality and habitat creation where possible. The bioretention basin functions as an ephemeral wetland, supporting bioremediation and water infiltration.
4. **Screening:** comprises a mix of regionally specific trees and large shrubs which visually integrate the facility into the landscape and mitigate visual impacts to receptors.
5. **Car park:** provide shade and improve visual amenity by maximising tree planting opportunity.
6. **Landscape treatment within the facility:** trees with understorey of native grasses and herbaceous species for amenity and shade. Trees and tall shrubs are not proposed to areas identified for future works.
7. **Shaded/maintenance areas:** loose gravel mulch is proposed to areas not suitable for planting to establish, such as shaded areas under heavy equipment and narrow areas of road median.
8. **Northern boundary:** infill tree and shrub planting between existing trees to further screen facility and reduce visual impacts to road users and adjacent property.
9. **Bushfire sensitive areas:** lower fuel load tree species with softscape treatments in accordance with *Landscaping for Bushfire* (2022) CFA.
10. Early planting: of perimeter screening vegetation mix to south-west embankments.

LEGEND

- Site area
- Extent of works boundary
- Easement
- Proposed trees
- Feature planting
- Dense screening with shrub understorey
- Overland flow channel
- Access road
- Concrete slab
- Access footpaths
- Stormwater basin

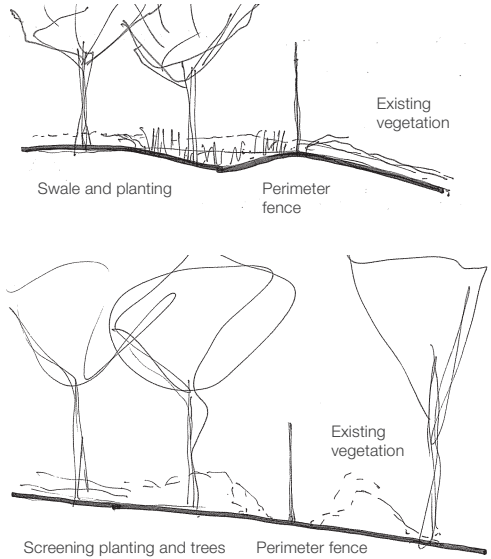

North elevation
Beaudesert Boonah Road
Western stormwater basin
Substation
IBA sorting area
Air Cooled Condenser (ACC)
Administration Building/ Visitor Centre
Waste Reception Hall
Waste Bunker
Boiler
Flue Gas Treatment
Stack
IBA Maturation Building
Site area
East elevation
Weighbridges
Gate House
Detention basin
Southern stormwater basin
Air Pollution Control Residue (APCr)
Conveyor
Easement
Truck Decoupling area
Existing trees
Inland Interstate Railway Line
0 20 40 60 80 100m

Hard landscape treatments

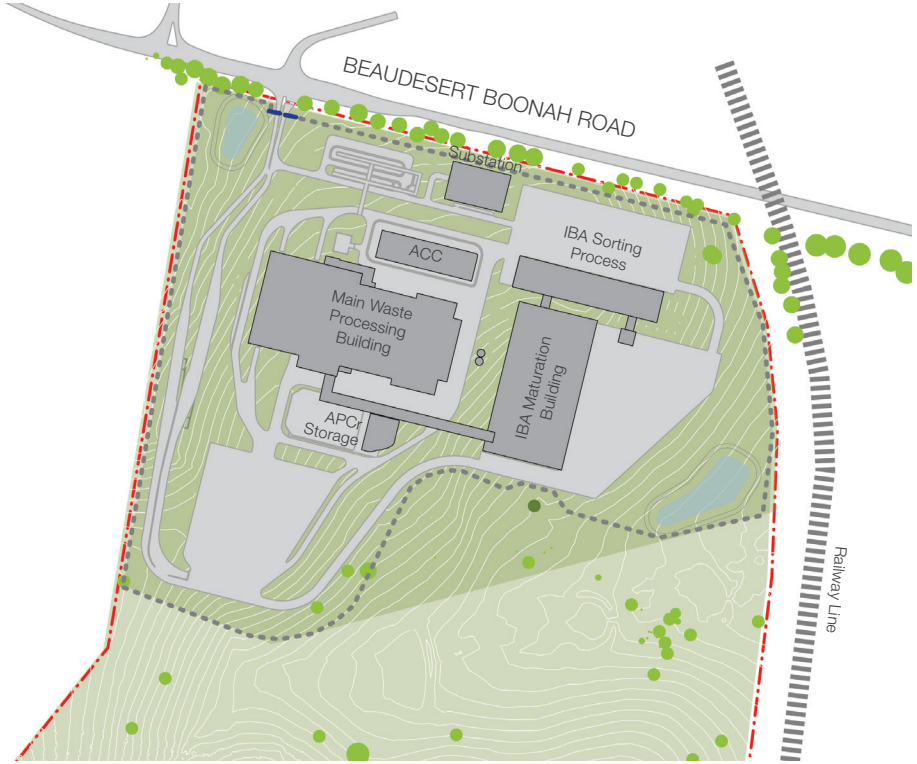
Fence

The Project include the provision of a perimeter fence that will enclose the development footprint. The proposed fence is to provide a secure enclosure and control access to the facility. The fence will replace the existing boundary fence at areas where both overlaps such as along part of the east and north boundaries. The fence will be integrated within the landscape design for amenity and as part of the design methodology while allowing for space between planting and the fence line for inspection and maintenance.

The fence can be a chain link/wire type and at least 1.8m high with galvanised steel posts at regular intervals.



Sketches of the proposed fence within the landscape



Hard landscape treatments

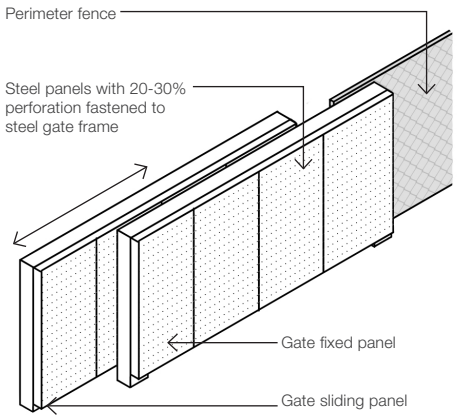
Gate and entry area

Entry to the facility is designed to be feature elements for wayfinding and opportunities for branding and signage. The design is inspired by farm barriers characteristic of the area and the architectural treatment of the facility's building design.

The entry area is composed of a fixed fence and integrated sliding gates. These are positioned on each side of the access road framing the entry and are proposed to be in steel frame in a style similar to the existing chunky farm fencing with perforated steel cladding. Branding and information signage can be installed on the fixed portion of the entry structure.



Existing farm fence structure



Indicative gate design

Soft landscape treatments

Tree planting placement

Views to and within the facility will be controlled by the strategic placement of trees and shrubs. The screening approach within the facility adopts a layered method where trees and shrubs are placed throughout the facility, where possible, on embankments and between roadways and buildings to maximise screening opportunities. In some areas, such as to the west and north boundaries, trees are arranged in rows to provide effective screening and shade where there are space restrictions.

Trees are generally placed in groups in keeping with the landscape context and character of the area. Tree and shrub planting are proposed with sufficient setback from the roadways to maintain clear sightlines for the road traffic and are also proposed adjacent to pedestrian access paths for amenity and shade.

Water capture and treatment

Surface water capture within the landscaped areas is achieved through vegetated swales located predominantly at the perimeter of the development footprint. Stormwater runoff from the roadways and paved areas are collected via kerb edges and directed to stormwater basins.

Stormwater and hard-stand run-off will be collected and discharged into combined treatment and detention basins. Combined treatment and detention basins are planned for the site, one adjacent to the main carpark to the north-west of the site and the other towards the eastern boundary. The bioretention zone within the combined treatment and detention basins will have a shallow pool of water during high rainfall periods while the detention zone/basin will remain predominantly dry unless during a flood event. Planting in the shallow bioretention basin will filter out pollutants and helping mitigate water quality impacts.

Soft landscape treatments

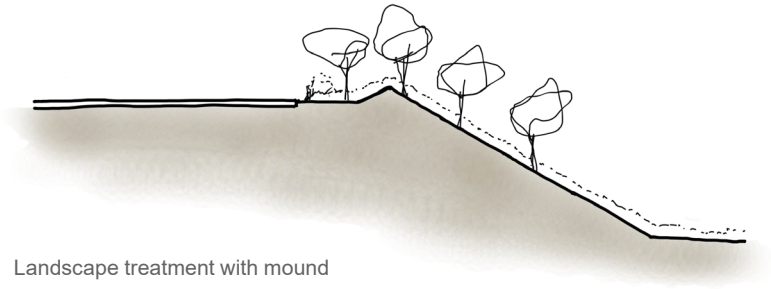
Visitor areas

The landscape design for the public facing areas will be distinct and legible to assist with wayfinding and orientation. Landscape treatment to these areas also considers user experience and comfort aspects. The aim is for the planting treatment to be of an ornamental appearance with mass plantings of native grasses and flowering shrubs to accentuate and differentiate the visitor areas from the industrial operations areas of the facility. Trees are proposed for screening, amenity and shade for passive urban cooling at pedestrian areas along footpaths and within car parks.

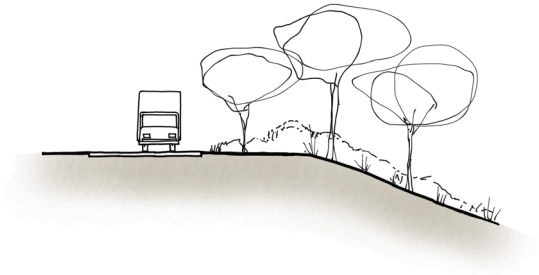
Operation facilities

Landscape treatment throughout the facility's operational area includes the following elements:

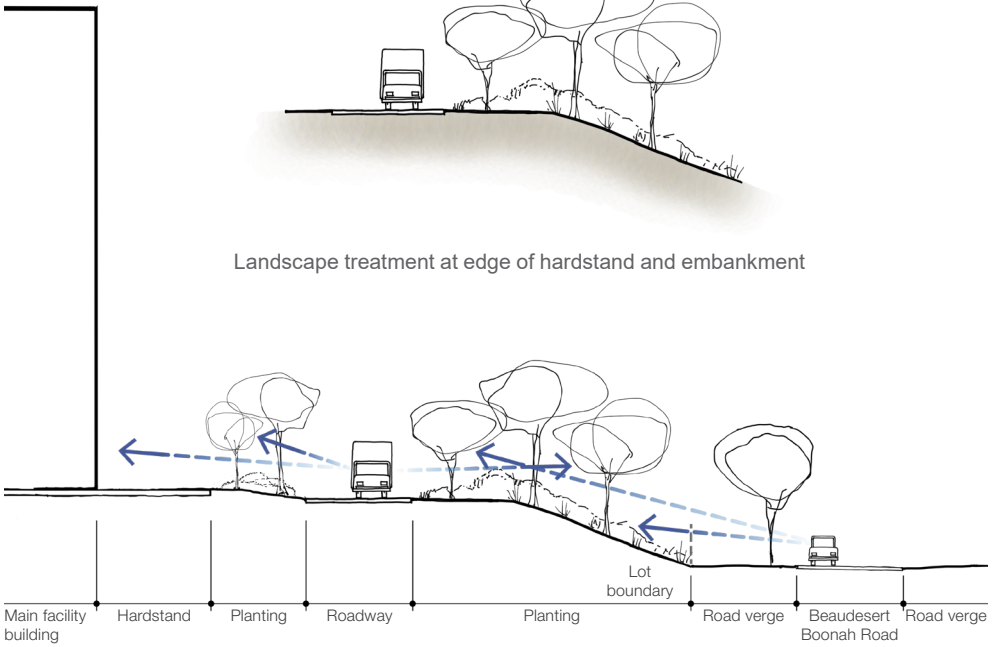
- Planting adjoining road verges and paved areas to soften the impact of the impervious paved surfaces.
- Planting treatment is a predominantly native grass mix to complement the existing vegetation typology as grass plains.
- Shrubs and trees adjoining roadways and hard paved areas for shade and screening.



Landscape treatment with mound



Landscape treatment at edge of hardstand and embankment



Sightlines screening sketch (scale is relative and indicative)

Soft landscape treatments

Planting stock

It is proposed that the initial plant stock to be installed at the visitor areas and key screening areas to be a minimum tubestock pot size for immediate impact instead if seeding, which will take longer to grow and establish. Planting within the operational area is proposed to be seed mix. A proposed method of installation is through hydro seeding where the seeds are incorporated in a paper/organic mix then pumped and dispersed over the area to be planted. The paper/organic material acts as a mulch and germination medium for the seeds while also preventing soil erosion and scouring during the establishment period of the plants.

The facility should consider the requirement for non-plastic biodegradable plant guards or the application of non-hazardous grazers repellent sprays to protect the newly installed plants from local fauna and livestock during the plants establishment period.

Swales and basins species

Plants selection for the combined treatment and detention basins includes a mix of riparian and wetland species. The plant types will be distributed to the two zones of the stormwater basins: riparian species for wet and dry conditions to the edges of the basin and within the bioretention zone, and wetland species in the attenuation zone as they can tolerate being submerged for long periods. The selection takes into consideration that there will be periods of high rainfall and the geology being predominantly clay soils where the basins will hold water with anticipation for slow infiltration rate.

Bushfire

The planting design incorporates aspects of bushfire mitigation guidelines from the following agencies:

- Country Fire Authority, 2022, Landscaping for bushfire garden design and plant selection.
- Australian Institute of Architects, 2021, Environment practice notes, Site planning and design for bushfire.
- State Planning Policy guidance on Natural hazards, risk and resilience - Bushfire (2019).

These considerations have been applied throughout the Project while balancing the requirement for screening.

The north-east corner of the site is identified as a bushfire hazard area, with a potential impact buffer extending into the lot. The landscape design applies a site-wide bushfire management strategy, including 10 m spacings between proposed trees to reduce crown fire spread, restricting shrubs beneath canopies to limit fuel loads, and excluding tree plantings within 10 m of structures to provide asset protection zones.

Landform

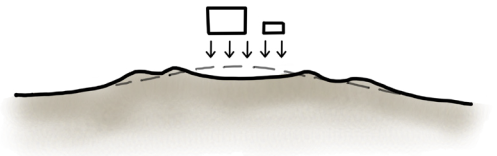
The sketch cross sections below illustrate the following soft landscape opportunity to better screen the facility:

A. Reshaping of the landform through the development to create mounds and basins which reflects elements of the existing landscape character of the region.

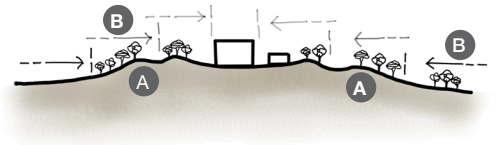
B. Layering of the views through the landscape treatment to screen the visibility of the built form and better blend the facility within the existing landscape.



Existing landform



Reshaped landform



Layering of landform

Landscape precedent images



Materials and geometry to complement architecture





Accent planting at the Visitor Centre and facility administration area



Carpark with shade trees





Open native grasslands with trees

Landscape precedent images



Vegetated stormwater basin



Feature entry gate and signage

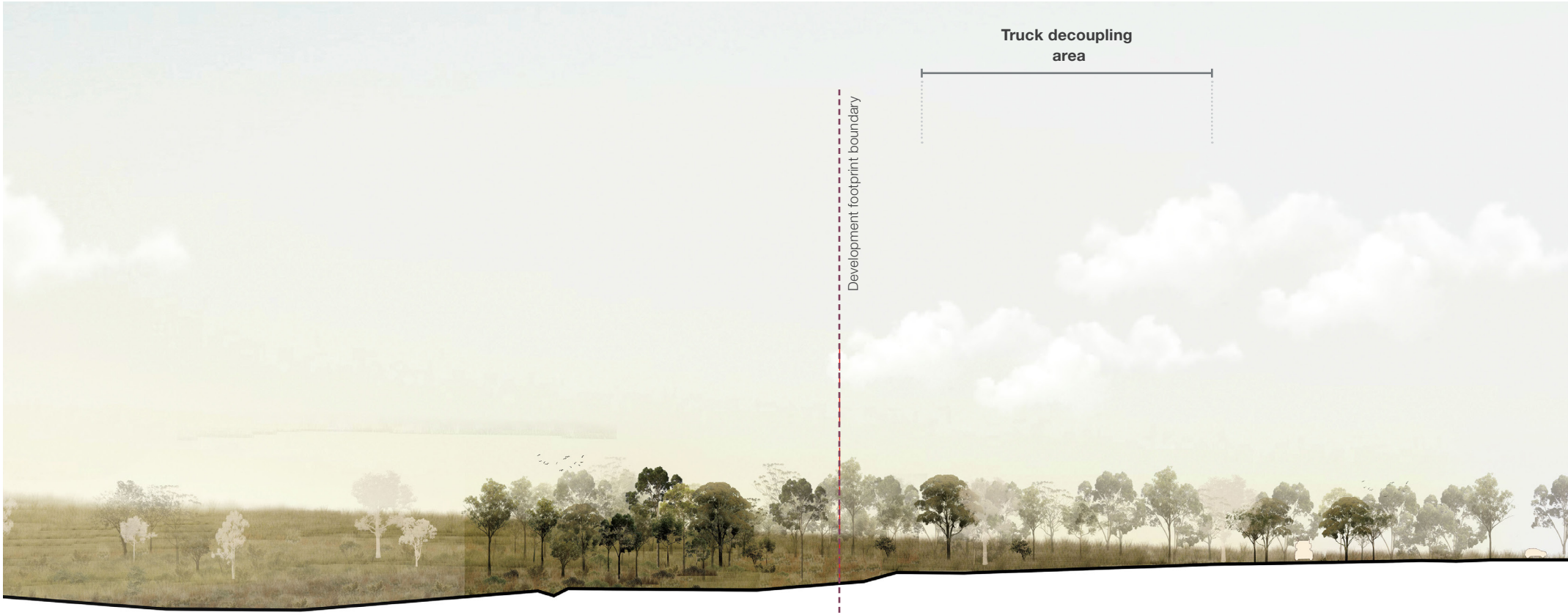


Vegetated stormwater basin with water body



Screening tree line on embankment/slope

Section



Site area

Retained existing vegetation.

Screening

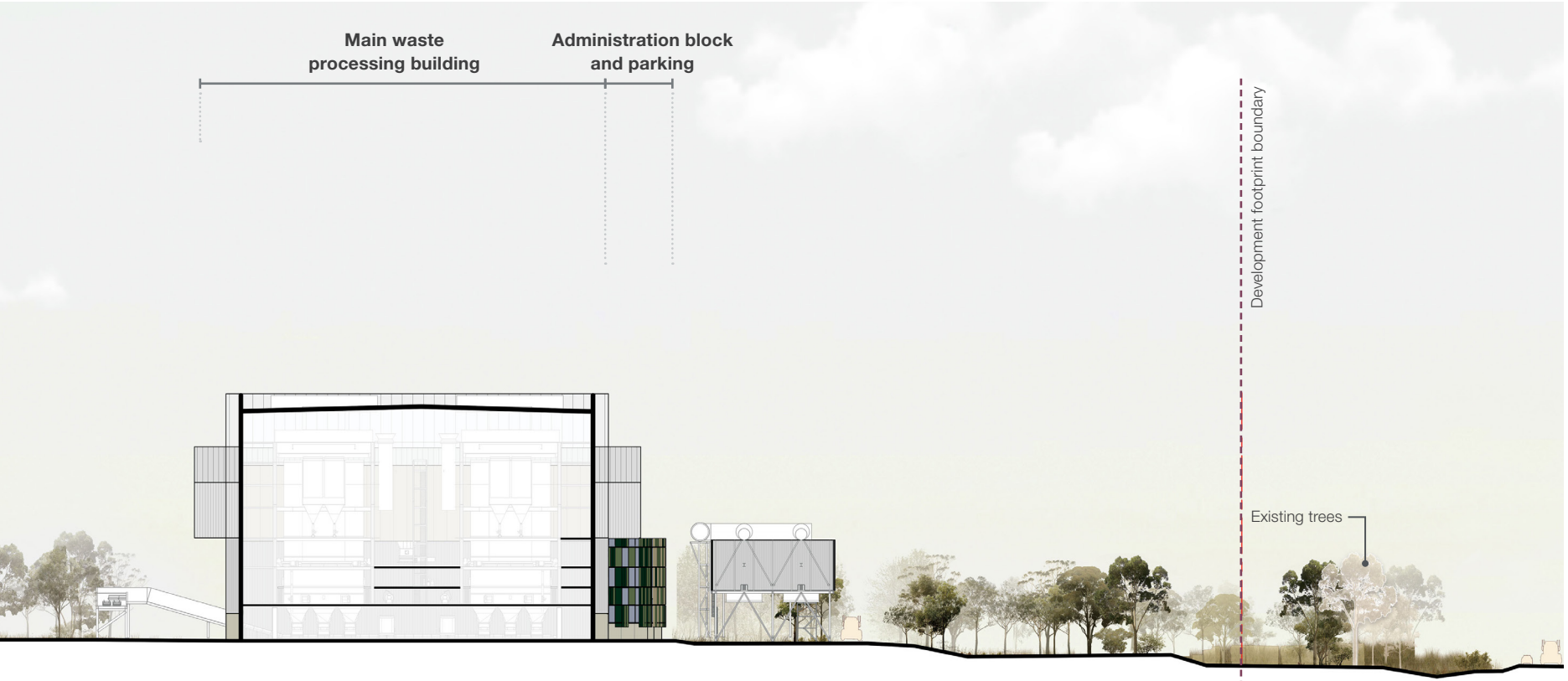
Trees, shrubs and grasses.

Shrubs and native grass plant mix that reflects the landscape character.

Facility landscape treatment

Trees, shrubs and grasses.

Native grass plant mix that reflects the landscape character.



Main waste processing building

ACC & Substation

Trees, shrubs planting.

Accent plant mix predominantly native grasses to verger's.

Screening

Beaudesert Boonah Road

0 10 20 30 40 50m

North elevation



Inland Interstate Railway Line easement (not in scope)

Perimeter screening

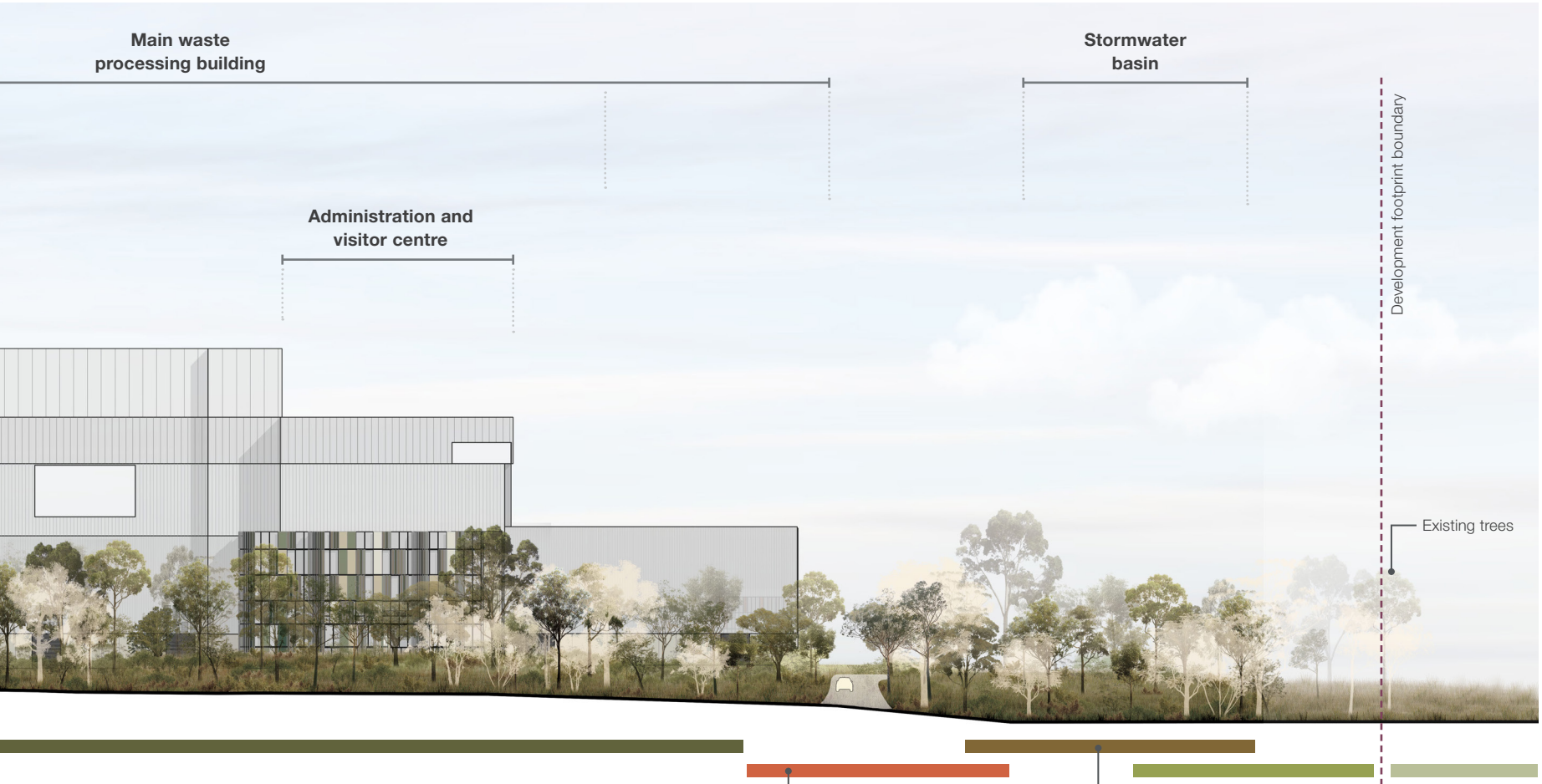
Trees, shrubs and grasses.

Shrubs and native grass plant mix that reflects the landscape character.

Screening

Trees and shrubs screening this area of the facility.

Native grass plant mi that reflects the landscape character and blending with the existing verge vegetation



Entry / signpost

Formal facility entrance framed by trees and accent planting with feature gate and fence treatment.

Accent plant mix predominantly flowering species and native grasses, blending with the existing verge vegetation.

Stormwater basin area

Trees,shrubs and riparian planting.

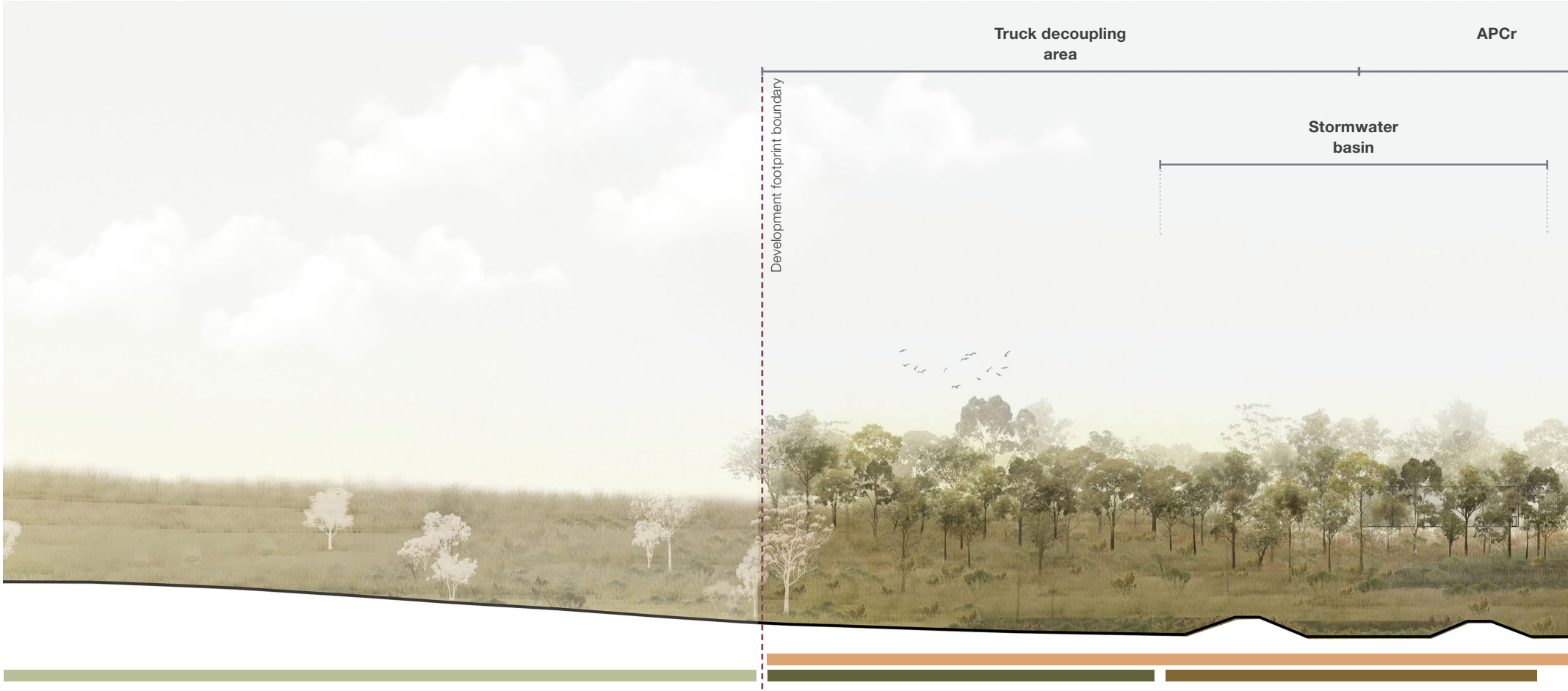
Accent plant mix in front of the visitor centre. Basin species to improve water quality, including ephemeral and macrophyte species that can withstand submerged periods of time.

Perimeter Screening

Adjacent property

0 10 20 30 40 50m

East elevation



Site area

Retained existing vegetation.

Screening

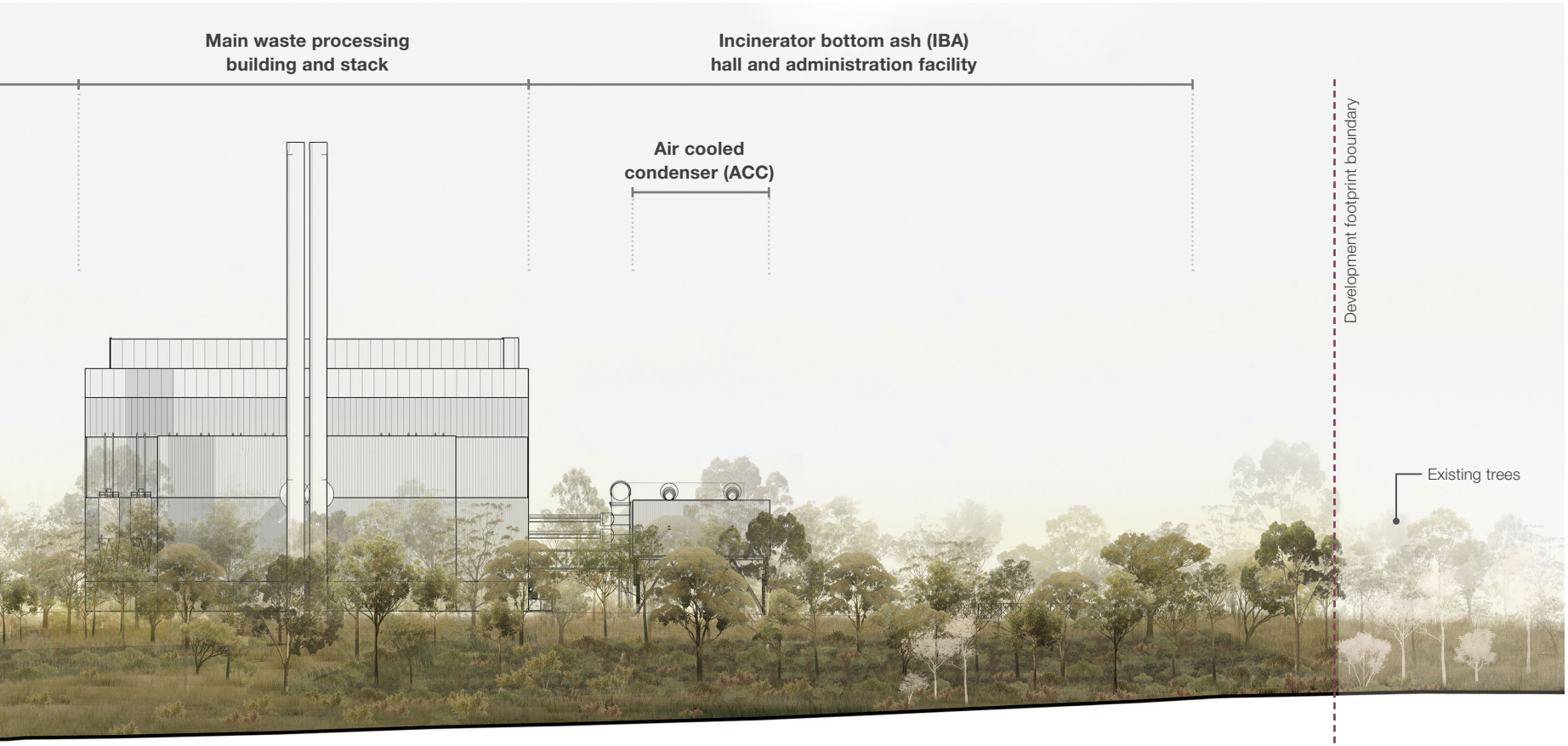
Trees, shrubs, grasses, and swale.

Shrubs and native grass plant mix that reflects the landscape character.

Stormwater basin area

Grasses and riparian planting.

Basin species to improve water quality, including ephemeral and macrophyte species that can withstand submerged periods of time.



Screening - early planting

Trees and shrubs screening this area of the facility.

Native grass plant mix that reflects the landscape character and blending with the existing verge vegetation.

Bushfire sensitive area

Trees and grasses.

Trees spaced out approximately 10-15m apart with native grasses as understorey planting. Plant selection includes species with lower fuel load.

Perimeter Screening

Beaudesert Boonah Road

0 10 20 30 40 50m

Indicative Planting Palette

Vegetation on the existing site is degraded has been converted to pasture land. It is the aim of the planting design to restore and celebrate native vegetation by using trees, shrubs, grasses and riparian species of the region.

The plant selection includes species with lower fuel load in consideration of bushfire mitigation and management.

Indicative species have been included and will be developed in further detail during the future design stages. The following references have been used to identify planting species:

- Healthy Land & Water (2016) Regional Ecosystems of South East Queensland: RE 12.3.3. Fact sheet.
- Scenic Rim Regional Council (2019) SC6.2.2.4 Part 4 Preferred Landscape Species.
- Lockyer Valley Regional Council, Species List for Regional Ecosystem 12.9-10.2.
- Healthy Land & Water and Water by Design, Wetland plants core species, Fact sheet.

Trees



Acacia implexa
Lightwood



Allocasuarina littoralis
Black she-oak

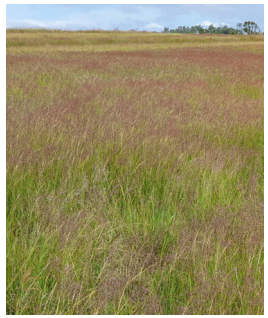


Eucalyptus crebra
Narrow-leaved ironbark



Eucalyptus moluccana
Gum-topped box

Native grasses



Capillipedium spicigerum
Queensland blue grass



Heteropogon contortus
Common tussock-grass



Imperata cylindricai
Blady grass



Themeda trianda
Kangaroo grass

Rushes and sedges



Baumea articulata
Jointed twig-rush



Carex appressa
Tall sedge



Juncus usitatus
Common rush



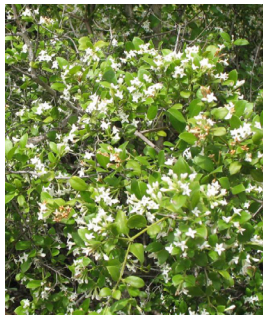
Schoenoplectus mucronatus
Bog bulrush

Indicative Planting Palette

Accent planting and shrubs



Bursaria spinosa
Sweet bursaria



Carissa ovata
Current bush



Dodonaea viscosa
Broad-leaf hop bush



Dodonaea viscosa subsp. cuneata
Wedge-leaf hop bush



Heteropogon contortus
Common tussock-grass



Leptospermum polygalifolium
Tantoon tea-tree



Jacksonia scoparia
Dogwood



Pittosporum revolutum
Hairy laurel

Landscape features



Accent planting mix with grasses and flowering species



Clumps of native trees and open grasslands

Ephemeral areas





Plant Schedule

TREES			
Botanical name	**Common name**	**Size (HxW) m**	**Treatment type**
Acacia implexa	Lightwood	15 x 10	Screening, amenity and shade
Acacia concurrens **	Black wattle	10 x 4	
Acacia disparrima subsp. disparrima	Hickory wattle	9 x 5	
Acacia salicina	Sally wattle	10 x 5	
Angophora subvelutina	Broad-leaved apple	25 x 15	
Allocasuarina littoralis	Black she-oak	7 x 3	
Corymbia citriodora subsp. variegata	Spotted gum	40 x 20	
Corymbia intermedia	Pink bloodwood	30 x 20	
Corymbia tessellaris	Ghost gum tree	30 x 16	
Denhamia pittosporoides **	Orange boxwood	6 x 3	
Eucalyptus crebra	Narrow-leaved ironbark	40 x 20	
Eucalyptus moluccana	Gum-topped box	40 x 20	
Eucalyptus siderophloia	Northern grey ironbark	40 x 20	
Eucalyptus tereticornis	Forest red gum	50 x 20	

GRASSES, GROUNDCOVERS AND RUSHES			
Botanical name	**Common name**	**Size (HxW) m**	**Treatment type**
Bothriochloa bladhii subsp. glabra	Darling lily	1.5 x 0.8	General planting near access roads and buildings
Capillipedium spicigerum	Queensland blue grass	1.5 x 0.9	
Chloris divaricata	Red-leg G\grass	0.9 x 0.7	
Crinum flaccidum	Weeping grass	0.8 x 0.8	
Dichanthium sericeum	Spiny-headed mat-rush	1.2 x 0.9	
Heteropogon contortus	Common tussock-grass	1.5 x 0.75	
Imperata cylindrica	Blady grass	0.6 x 0.6	
Juncus usitatus	Common rush	1 x 1.5	
Lespedeza juncea	Perennial lespedeza	1.2 x 0.5	
Murdannia graminea	Fringe lily	0.8 x 0.8	
Panicum decompositum	Native millet	0.8 x 0.8	
Paspalum scrobiculatum	Ditch millet	0.7 x 1	
Sarga leiocladum	Native sorghum	0.5 x 0.6	
Sporobolus creber	Slender rat's tail	1.4 x 0.7	
Themeda triandra	Kangaroo Grass	1 x 0.4	
Zornia dyctiocarpa	Zornia	Spreading	

Plant Schedule

SHRUBS AND ACCENT SPECIES			
Botanical name	**Common name**	**Size (HxW) m**	**Treatment type**
Bursaria spinosa **	Sweet bursaria	2 x 3	Screening and scenic amenity to staff common spaces and visitor centre.
Carissa ovata	Currant bush	2 x 2	
Dodonaea viscosa	Broad-leaf hop bush	3 x 2	
Dodonaea viscosa subsp. cuneata	Wedge-leaf hop bush	3 x 1.5	
Leptospermum polygalifolium	Tantoon tea-tree	2 x 2	
Jacksonia scoparia	Dogwood	5 x 3	
Pittosporum revolutum **	Hairy laurel	3 x 2	

RIPARIAN / WETLAND SPECIES			
Botanical Name	**Common Name**	**Size (HxW) m**	**Treatment type**
Baumea articulata (DM)	Jointed twig-rush	2.5 x 0.6	Swales and stormwater basins
Baumea rubiginosa (EB)	Soft twig-rush	2 x 4	
Bolboschoenus fluviatalis (DM)	Marsh club-rush	1.2 x 1	
Carex appressa (EB)	Tall sedge	1 x 1.5	
Carex fascicularis (SM)	Tassel sedge	1 x 1	
Juncus usitatus (EB)	Common rush	1 x 1.5	
Lomandra longifolia (EB)	Mat rush	1 x 0.6	
Gahnia sieberiana (EB)	Giant swords sedge	1 x 1	
Schoenoplectus mucronatus (SM)	Bog bulrush	1 x 1	

Reference list:

- Healthy Land & Water (2016) Regional Ecosystems of South East Queensland: RE 12.3.3. Fact sheet.
- Scenic Rim Regional Council (2019) SC6.2.2.4 Part 4 Preferred Landscape Species.
- Lockyer Valley Regional Council, Species List for Regional Ecosystem 12.9-10.2.
- Healthy Land & Water and Water by Design, Wetland plants core species, Fact sheet.

Riparian/wetland - plant zone depth range:

- TE - Terrestrial > +0.2m
- EB - Ephemeral batter NWL to +0.2m
- SM - Shallow marsh NWL to -0.2m
- DM - Deep marsh -0.2m to -0.4m
- SU - Submerged marsh -0.4m to -0.7m

(NWL - Normal water line)

Note:

- * Available from specialist nursery
- ** Indicates lower fuel load for bush fires



A
Architecture Drawings

Indicative Visualisation - Overall site view from north-west
Note: Planting is illustrated at maturity. This indicative design is subject to design development at future design stages.

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BROMELTON ENERGY AND RESOURCE CENTRE

DRAWING LIST		
Drawing Number	Drawing Title	Revision
ARCHITECTURE		
BERC-ARUP-BNE-ARAR-DRG-000001	GENERAL-DRAWING LIST AND GENERAL NOTES-	R02
BERC-ARUP-BNE-ARAR-DRG-000002	GENERAL-SITE-3D VIEW	R02
BERC-ARUP-BNE-ARAR-DRG-001002	GENERAL ARRANGEMENT-SITE-LOCATION PLAN	R02
BERC-ARUP-BNE-ARAR-DRG-001101	GENERAL ARRANGEMENT-SITE-EXISTING	R02
BERC-ARUP-BNE-ARAR-DRG-001102	GENERAL ARRANGEMENT-SITE-DEMOLISHED	R02
BERC-ARUP-BNE-ARAR-DRG-001201	GENERAL ARRANGEMENT-SITE-PROPOSED	R03
BERC-ARUP-BNE-ARAR-DRG-001202	GENERAL ARRANGEMENT-SITE-PROPOSED	R03
BERC-ARUP-BNE-ARAR-DRG-002201	GENERAL ARRANGEMENT-SITE-ELEVATIONS	R02
BERC-ARUP-BNE-ARAR-DRG-013001	GENERAL ARRANGEMENT-GROUND FLOOR-MAIN PROCESSING BUILDING	R02
BERC-ARUP-BNE-ARAR-DRG-013002	GENERAL ARRANGEMENT-UPPER DECK AREA-MAIN PROCESSING BUILDING	R02
BERC-ARUP-BNE-ARAR-DRG-013091	GENERAL ARRANGEMENT-ROOF-MAIN PROCESSING BUILDING	R02
BERC-ARUP-BNE-ARAR-DRG-013101	GENERAL ARRANGEMENT-SECTIONS-MAIN PROCESSING BUILDING	R02
BERC-ARUP-BNE-ARAR-DRG-013201	GENERAL ARRANGEMENT-ELEVATIONS-MAIN PROCESSING BUILDING	R02
BERC-ARUP-BNE-ARAR-DRG-013202	GENERAL ARRANGEMENT-ELEVATIONS-MAIN PROCESSING BUILDING	R02
BERC-ARUP-BNE-ARAR-DRG-023001	GENERAL ARRANGEMENT-PLANS-ADMINISTRATION OFFICE	R02
BERC-ARUP-BNE-ARAR-DRG-023091	GENERAL ARRANGEMENT-PLANS-ADMINISTRATION OFFICE	R02
BERC-ARUP-BNE-ARAR-DRG-023201	GENERAL ARRANGEMENT-ELEVATIONS-ADMINISTRATION OFFICE	R02
BERC-ARUP-BNE-ARAR-DRG-043001	GENERAL ARRANGEMENT-PLANS-AIR COOLING CONDENSORS	R02
BERC-ARUP-BNE-ARAR-DRG-043201	GENERAL ARRANGEMENT-ELEVATIONS-AIR COOLING CONDENSORS	R02
BERC-ARUP-BNE-ARAR-DRG-053201	GENERAL ARRANGEMENT-ELEVATIONS-SUBSTATION	R02
BERC-ARUP-BNE-ARAR-DRG-063091	GENERAL ARRANGEMENT-PLANS - GROUND LEVEL-IBA	R02
BERC-ARUP-BNE-ARAR-DRG-063092	GENERAL ARRANGEMENT-PLANS - ROOF LEVEL-IBA	R02
BERC-ARUP-BNE-ARAR-DRG-063201	GENERAL ARRANGEMENT-ELEVATIONS-IBA	R02
BERC-ARUP-BNE-ARAR-DRG-073091	GENERAL ARRANGEMENT-PLANS-APCR STORAGE	R02
BERC-ARUP-BNE-ARAR-DRG-073201	GENERAL ARRANGEMENT-ELEVATIONS-APCR STORAGE	R02
BERC-ARUP-BNE-ARAR-DRG-093001	GENERAL ARRANGEMENT-PLANS AND ELEVATIONS-GATE HOUSE AND BUS SHELTER	R02
BERC-ARUP-BNE-ARAR-DRG-103091	GENERAL ARRANGEMENT-PLANS-IBA MATURATION BUILDING	R02
BERC-ARUP-BNE-ARAR-DRG-103092	GENERAL ARRANGEMENT-ELEVATIONS-IBA MATURATION BUILDING	R02
BERC-ARUP-BNE-ARAR-SCH-000011	SCHEDULE-ARCHITECTURAL-MATERIAL	R02
LANDSCAPE ARCHITECTURE		
BERC-ARUP-BNE-LULX-DRG-001203	GENERAL ARRANGEMENT-LANDSCAPE SITE PLAN-PROPOSED	R02
BERC-ARUP-BNE-LULX-DRG-001204	GENERAL ARRANGEMENT-LANDSCAPE PLAN-PROPOSED	R02
BERC-ARUP-BNE-LULX-DRG-003100	GENERAL ARRANGEMENT-SECTION-NORTH SOUTH	R02
BERC-ARUP-BNE-LULX-DRG-003200	GENERAL ARRANGEMENT-ELEVATIONS-NORTH AND EAST	R02
BERC-ARUP-BNE-LULX-SCH-000012	SCHEDULE-LANDSCAPE-PLANTING	R02

NOT FOR CONSTRUCTION

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: N/A

Discipline: Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title
GENERAL
DRAWING LIST AND GENERAL NOTES

Drawing Status
S0 - FOR INFORMATION ONLY

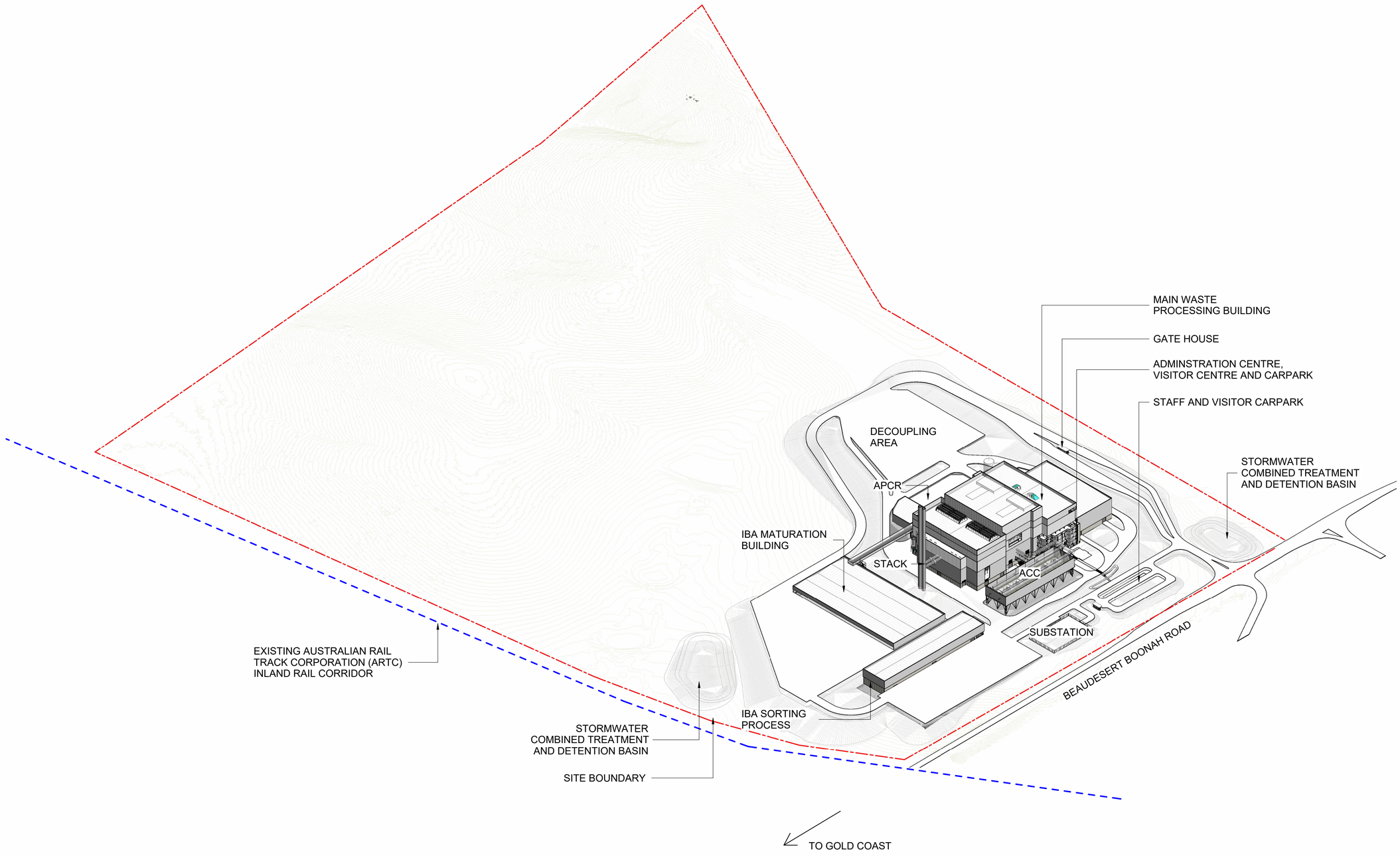
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293683-00	BERC-ARUP-BNE-ARAR-DRG-000001	R02

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A1

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Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client

CLEANAWAY
Making a sustainable future possible

Architectural Certification

Name: .....

Signature: ..... Date: .....

Job Title

Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1

Discipline

Architecture

ARUP

Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title

GENERAL
SITE
3D VIEW

Drawing Status

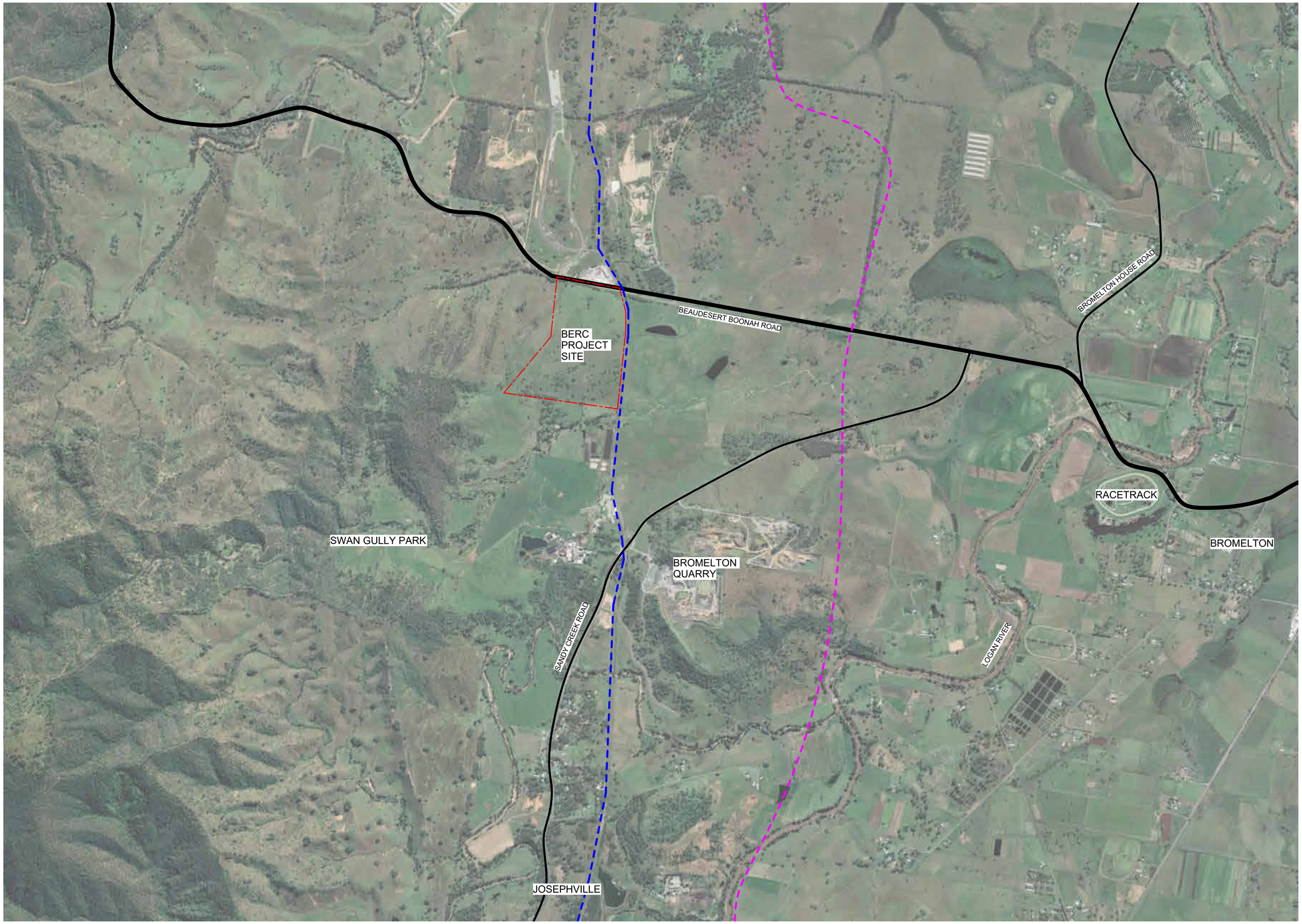
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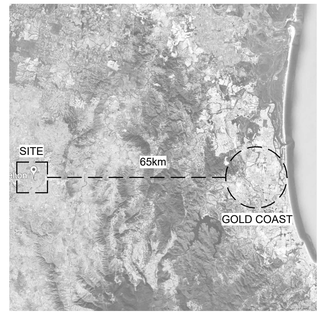
Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-000002	R02

Do not scale

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A1





LEGEND

- SITE BOUNDARY
- EXISTING AUSTRALIAN RAIL TRACK CORPORATION (ARTC) INLAND RAIL CORRIDOR
- INDICATIVE PROPOSED BROMELTON NORTH SOUTH ARTERIAL ROAD
- PRIMARY ROADS

TO GOLD COAST

NOT FOR CONSTRUCTION

N

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 10000

Discipline: Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title: GENERAL ARRANGEMENT
SITE
LOCATION PLAN

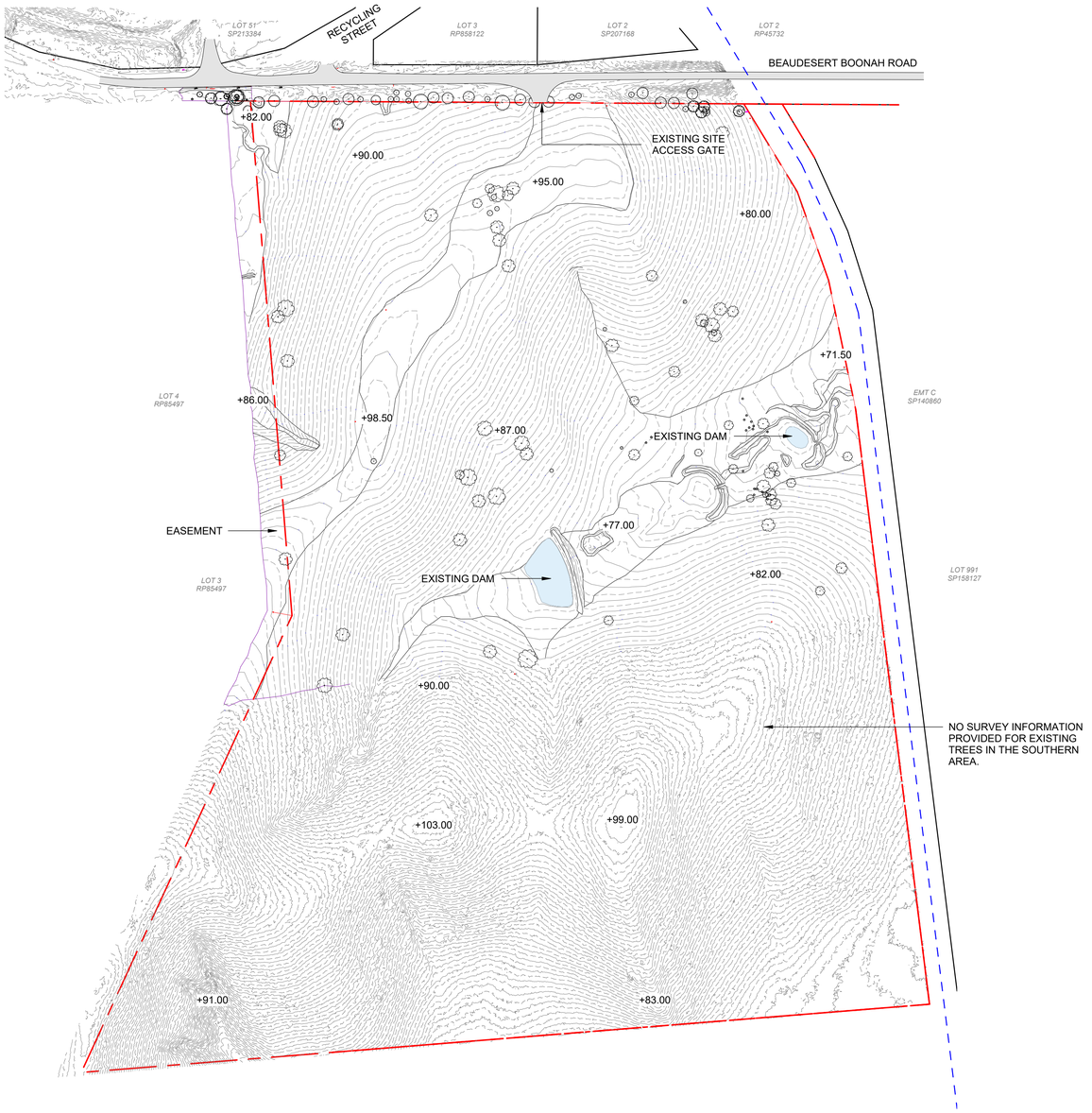
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Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-001002	R02

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LEGEND

- SITE BOUNDARY
- PRIMARY ROAD
- EXISTING AUSTRALIAN RAIL TRACK CORPORATION (ARTC) INLAND RAIL CORRIDOR
- MAJOR CONTOUR LINE 1M ELEVATION
- MINOR CONTOUR LINE 0.5M ELEVATION
- EXISTING TREES

NOT FOR CONSTRUCTION

N

0 100 m 200m

A1 1:3000 | A3 1:6000

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 3000

Discipline: Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title
GENERAL ARRANGEMENT
SITE
EXISTING

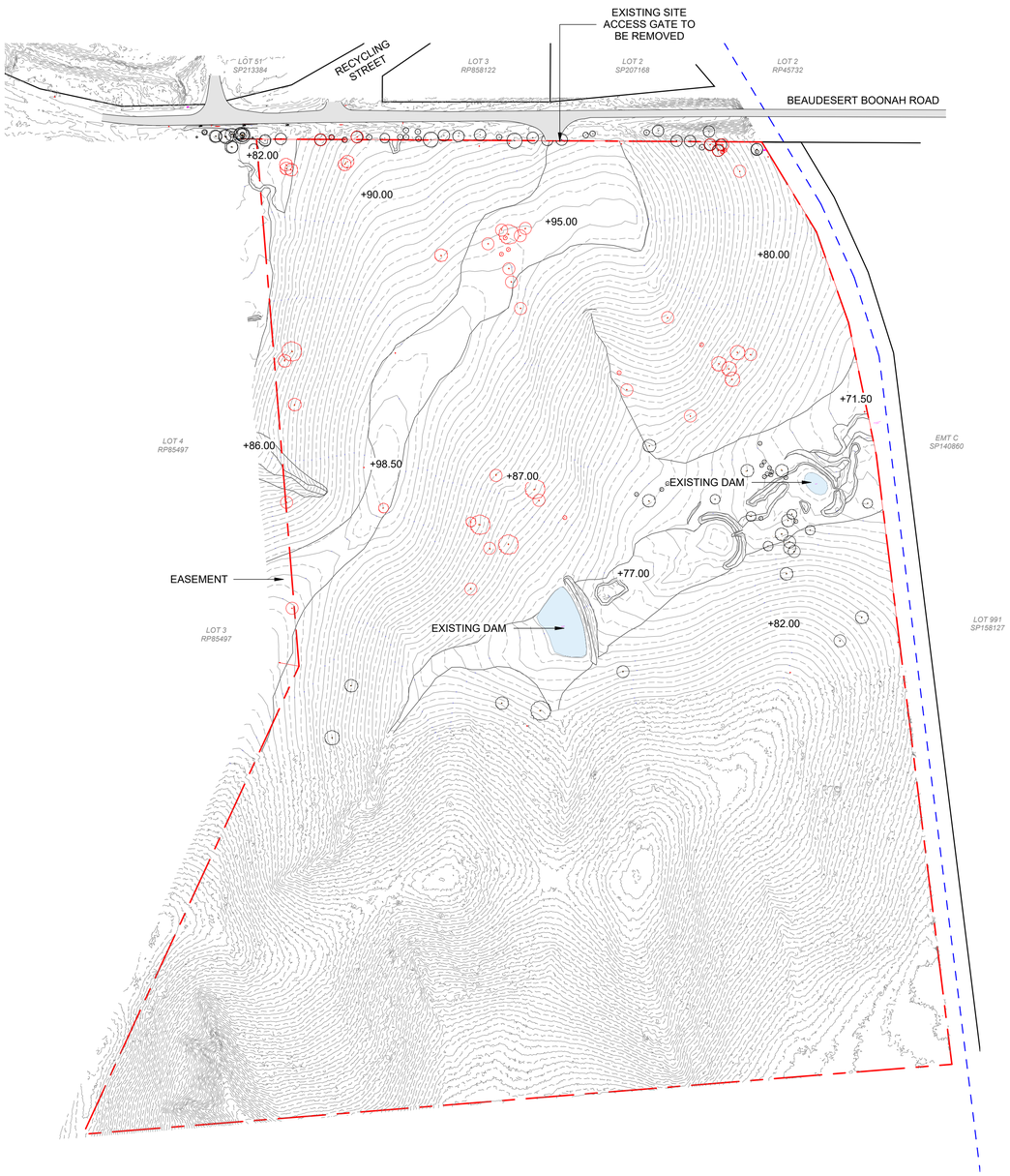
Drawing Status: S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-001101	R02

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19/12/2025 1:22:27 PM

19/12/2025 1:22:29 PM



LEGEND

- SITE BOUNDARY
- PRIMARY ROAD
- EXISTING AUSTRALIAN RAIL TRACK CORPORATION (ARTC) INLAND RAIL CORRIDOR
- MAJOR CONTOUR LINE 1M ELEVATION
- MINOR CONTOUR LINE 0.5M ELEVATION
- EXISTING TREES
- REMOVED TREES

NOT FOR CONSTRUCTION

N

0 100 m 200m

A1 1:3000 | A3 1:6000

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 3000

Discipline: Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title
GENERAL ARRANGEMENT
SITE
DEMOLISHED

Drawing Status: S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-001102	R02

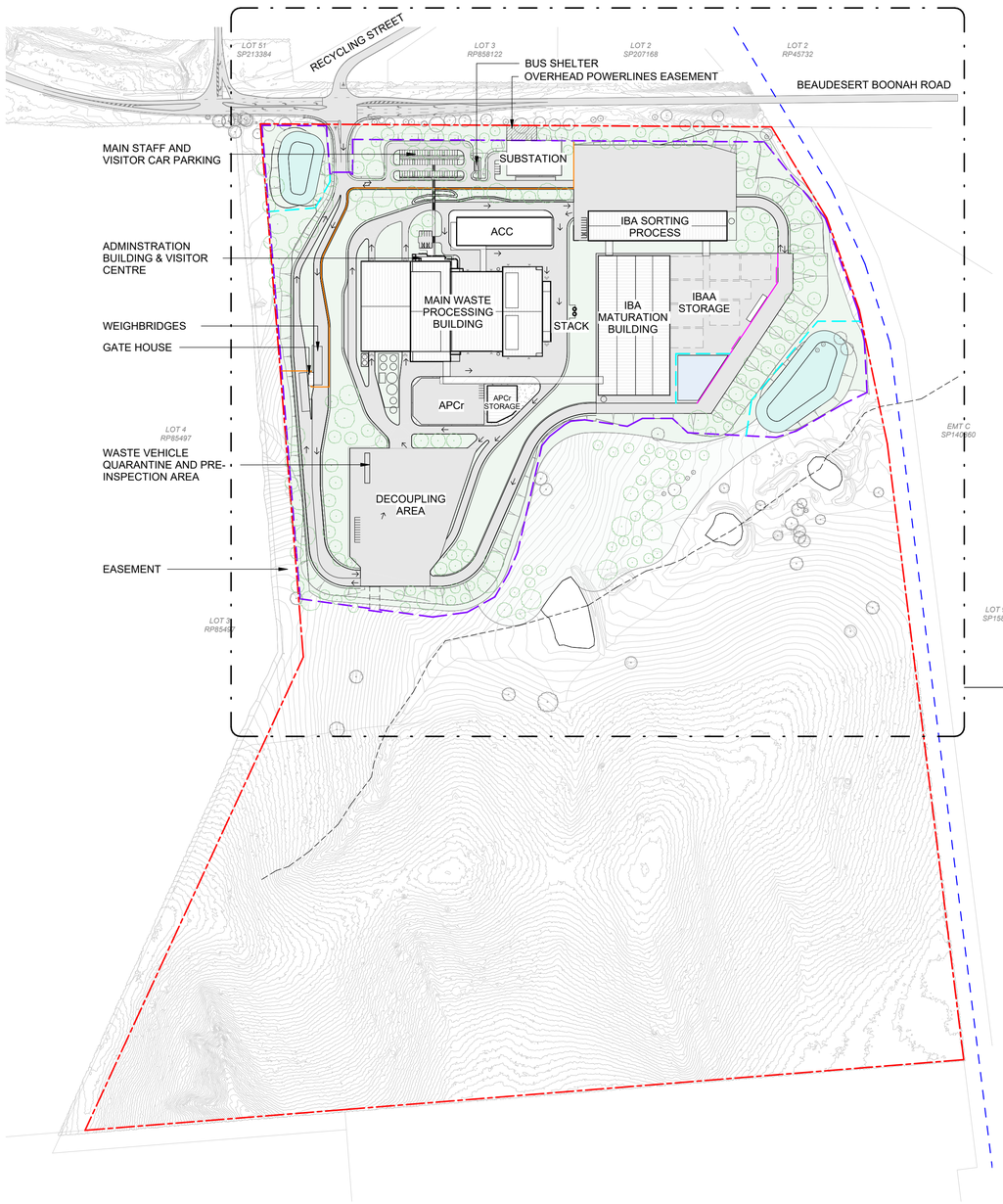
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A1 | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P

19/12/2025 1:22:52 PM

DEVELOPMENT SUMMARY

BUILDING GFA (m²)	
MAIN EFW & ADMIN CENTRE	16,200m²
IBA SORTING PROCESS	4,170m²
IBA MATURATION BUILDING	10,080m²
APCR STORAGE	1,000m²
GATE HOUSE	70m²
BUS SHELTER	40m²
TOTAL	**31,560m²**
IMPERVIOUS AREA (m²)	
ROADS & HARDSTANDS	113,989m²
FOOTPATHS & RAMPS	906m²
ACC	2,660m²
SUBSTATION	1,925m²
TOTAL	**119,480m²**
LANDSCAPING AREA (m²)	
LANDSCAPED GROUND TREATMENT	99,687m²
EASTERN DETENTION BASIN	4,460m²
WESTERN DETENTION BASIN	2,553m²
TOTAL	**106,700m²**
CARPARKING SPACE (no.)	
MAIN STAFF & VISITOR CARPARK	60
ADMIN CARPARK	8
SUBSTATION	4
IBA SORTING PROCESS	7
APCR	5
DECOUPLING AREA	10
TOTAL	**94**
TOTAL EXTENT OF WORKS AREA (n²)	**226,180m²**



LEGEND

- SITE BOUNDARY
- EXISTING AUSTRALIAN RAIL TRACK CORPORATION (ARTC) INLAND RAIL CORRIDOR
- DRAINAGE FEATURE
- BOUNDARY FENCE & GATE
- SAFETY FENCE
- SECURITY FENCE
- IBA FENCE & GATE
- MAJOR CONTOUR LINE 1M ELEVATION
- EXISTING/RETAINED TREES
- PROPOSED TREES. REFER TO LANDSCAPE DRAWINGS FOR MORE DETAILS.
- LANDSCAPED GROUND TREATMENT. REFER TO LANDSCAPE DRAWINGS FOR MORE DETAILS
- IBAA AREA LINED RETENTION POND
- STORMWATER COMBINED TREATMENT AND DETENTION BASIN

NOT FOR CONSTRUCTION

N

0 100 m 200m

A1 1:3000 | A3 1:6000

Do not scale

Issue	Date	By	Chkd	Appd
R04	19/12/2025	SC	CH	MB
R03	12/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification

Name: .....

Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 3000

Discipline: Architecture

ARUP

Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title: GENERAL ARRANGEMENT SITE PROPOSED

Drawing Status: ISSUE FOR APPROVAL

Job No: **293683-00**

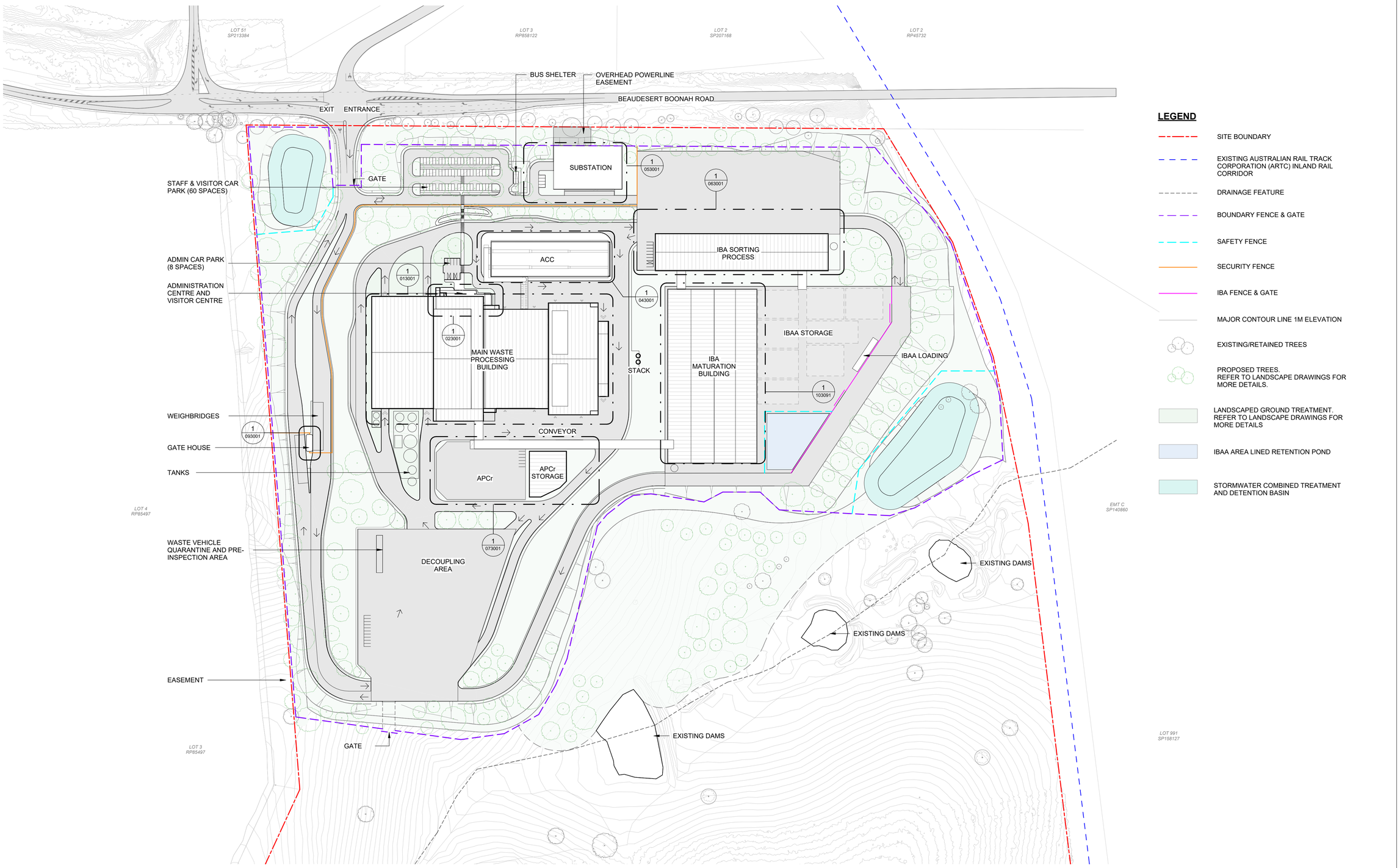
Drawing No: **BERC-ARUP-BNE-ARAR-DRG-001201**

Issue: **R03**

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A1

19/12/2025 1:23:18 PM



LEGEND

- SITE BOUNDARY
- EXISTING AUSTRALIAN RAIL TRACK CORPORATION (ARTC) INLAND RAIL CORRIDOR
- DRAINAGE FEATURE
- BOUNDARY FENCE & GATE
- SAFETY FENCE
- SECURITY FENCE
- IBA FENCE & GATE
- MAJOR CONTOUR LINE 1M ELEVATION
- EXISTING/RETAINED TREES
- PROPOSED TREES. REFER TO LANDSCAPE DRAWINGS FOR MORE DETAILS.
- LANDSCAPED GROUND TREATMENT. REFER TO LANDSCAPE DRAWINGS FOR MORE DETAILS
- IBAA AREA LINED RETENTION POND
- STORMWATER COMBINED TREATMENT AND DETENTION BASIN

NOT FOR CONSTRUCTION

N

0 50 m 100m

A1 1:1500 | A3 1:3000

Do not scale

Issue	Date	By	Chkd	Appd
R04	19/12/2025	SC	CH	MB
R03	12/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification

Name: .....

Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1:1500

Discipline: Architecture

ARUP

Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title: GENERAL ARRANGEMENT SITE PROPOSED

Drawing Status: ISSUE FOR APPROVAL

Job No: **293683-00**

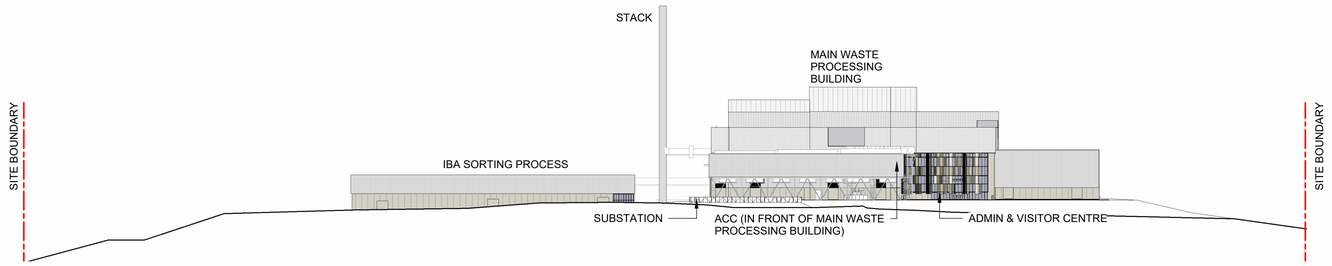
Drawing No: **BERC-ARUP-BNE-ARAR-DRG-001202**

Issue: **R03**

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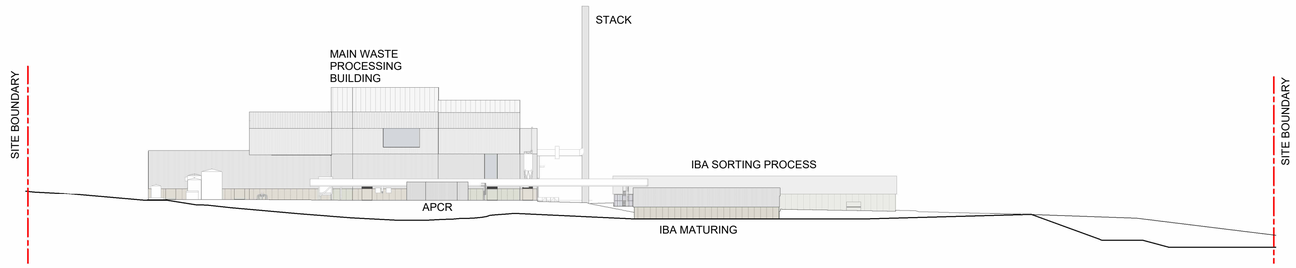
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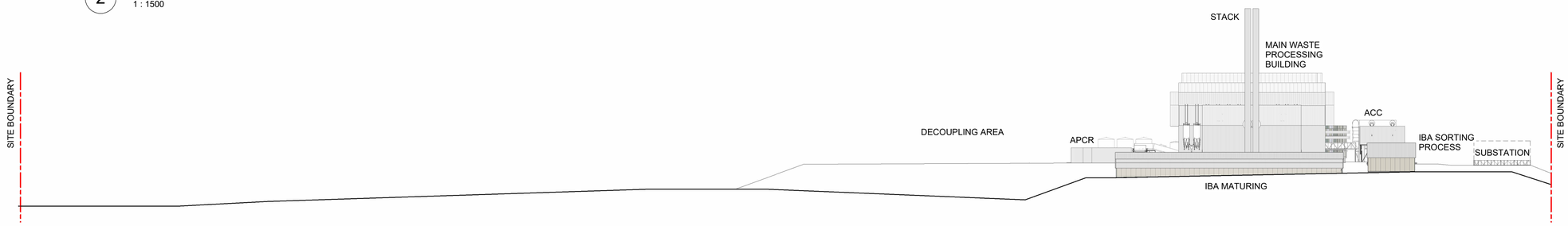
1 ELEVATION - SITE - NORTH

1 : 1500



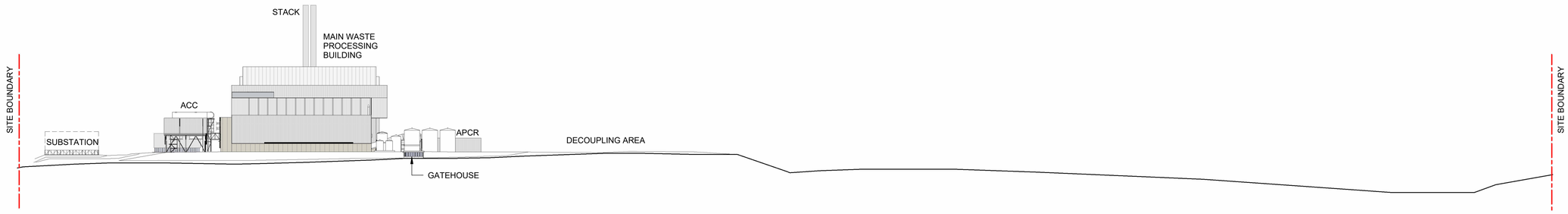
2 ELEVATION - SITE - SOUTH

1 : 1500



3 ELEVATION - SITE - EAST

1 : 1500



4 ELEVATION - SITE - WEST

1 : 1500

NOT FOR CONSTRUCTION

0 50 m 100m

A1 1:1500 | A3 1:3000

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification

Name: .....

Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 1500

Discipline: Architecture

ARUP

Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

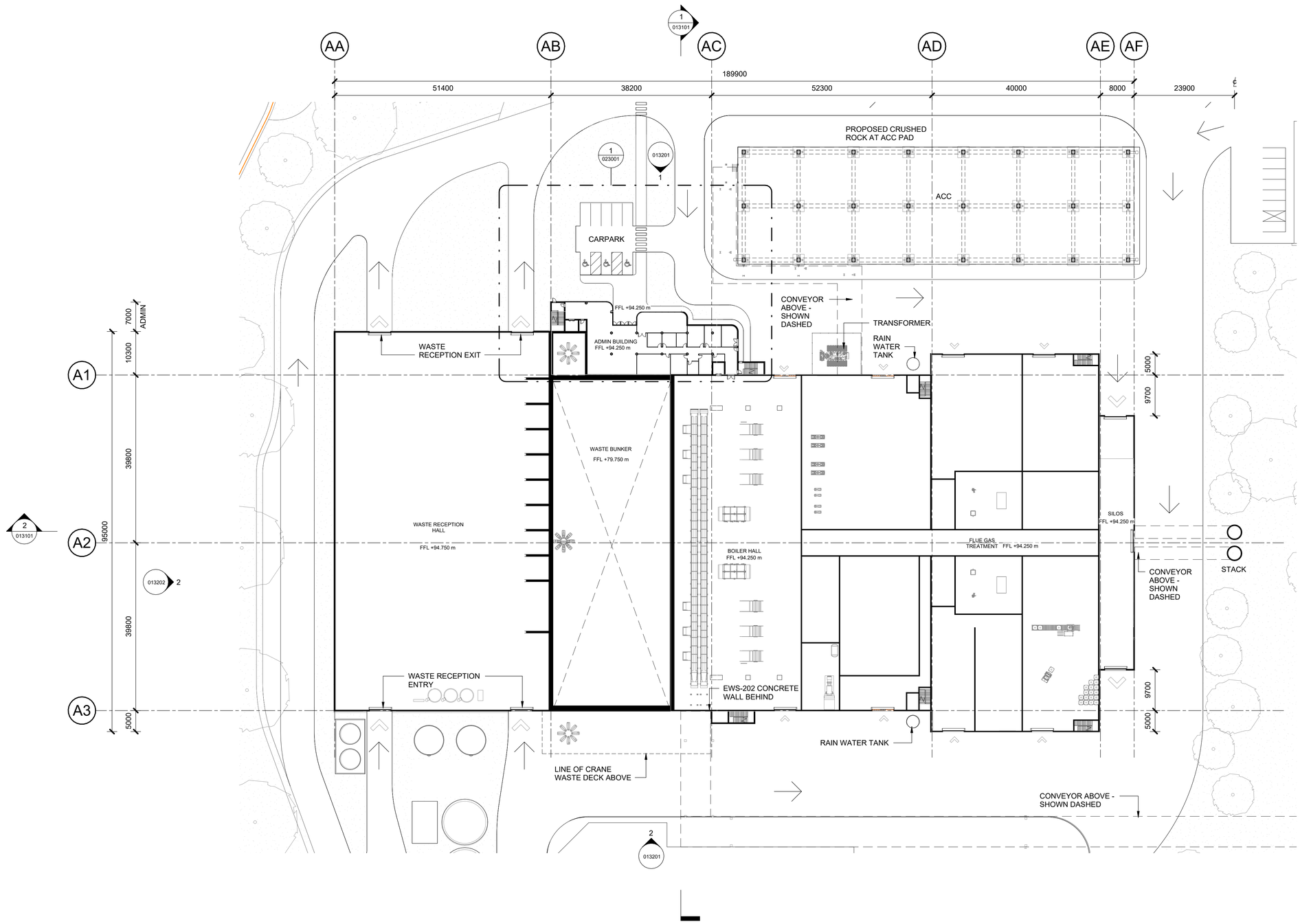
CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title: GENERAL ARRANGEMENT SITE ELEVATIONS

Drawing Status: S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-002201	R02

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19/12/2025 1:54:16 PM

NOT FOR CONSTRUCTION

N

0 10m 20m

A1 1:500 | A3 1:1000

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client

CLEANAWAY
Making a sustainable future possible

Architectural Certification

Name: .....

Signature: ..... Date: .....

Job Title

Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 500

Discipline Architecture

ARUP

Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title

GENERAL ARRANGEMENT
GROUND FLOOR
MAIN PROCESSING BUILDING

Drawing Status

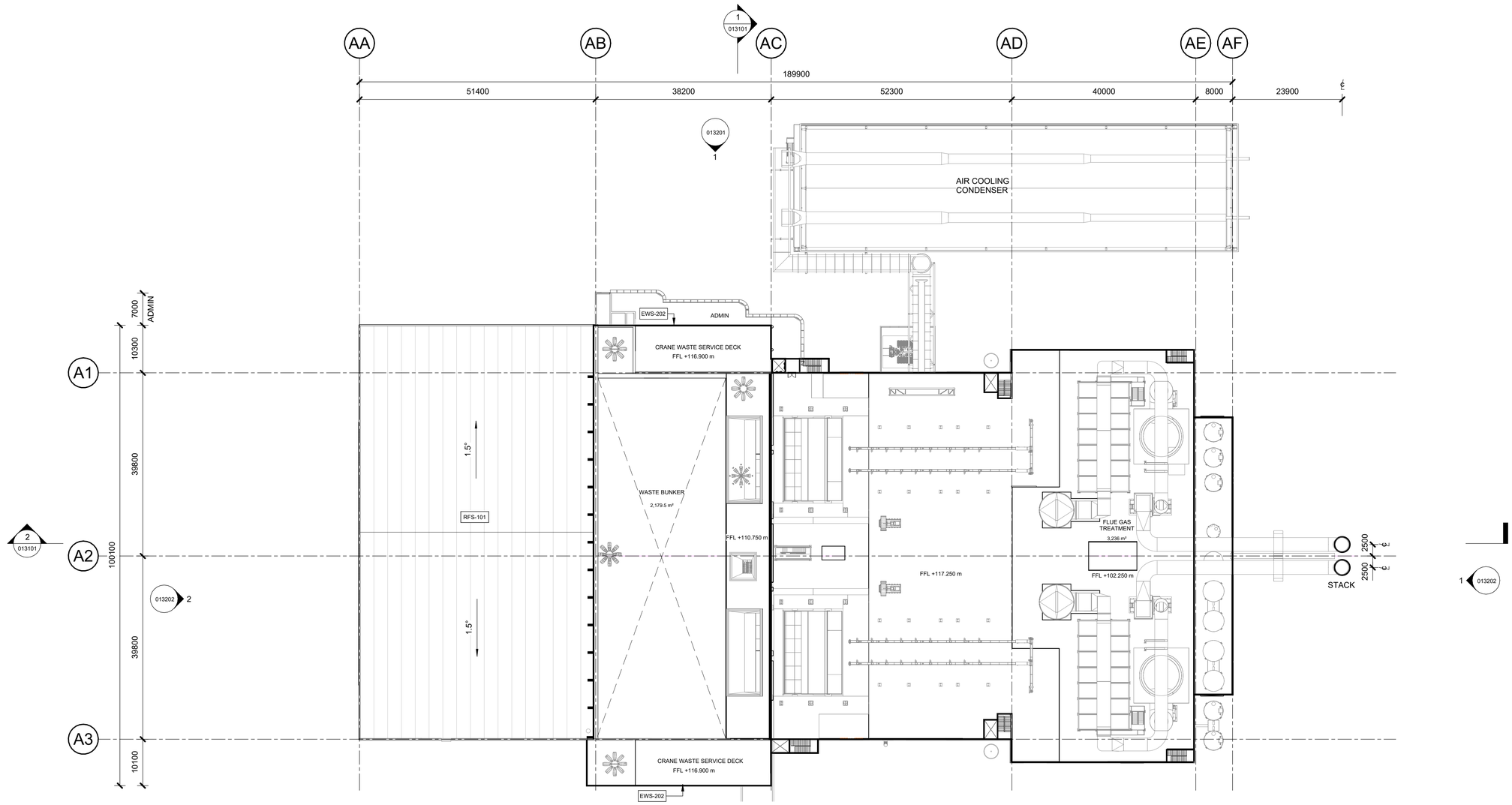
S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-013001	R02

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19/12/2025 1:26:10 PM

MATERIAL LEGEND	
CODE	DESCRIPTION
EWS-202	CONCRETE WALL WITH METAL CLADDING
RFS-101	METAL STANDING SEAM ROOF PANELS



NOT FOR CONSTRUCTION

N

0 10m 20m

A1 1:500 | A3 1:1000

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client

CLEANAWAY
Making a sustainable future possible

Architectural Certification

Name: .....

Signature: ..... Date: .....

Job Title

Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 500

Discipline

Architecture

ARUP

Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title

GENERAL ARRANGEMENT
UPPER DECK AREA
MAIN PROCESSING BUILDING

Drawing Status

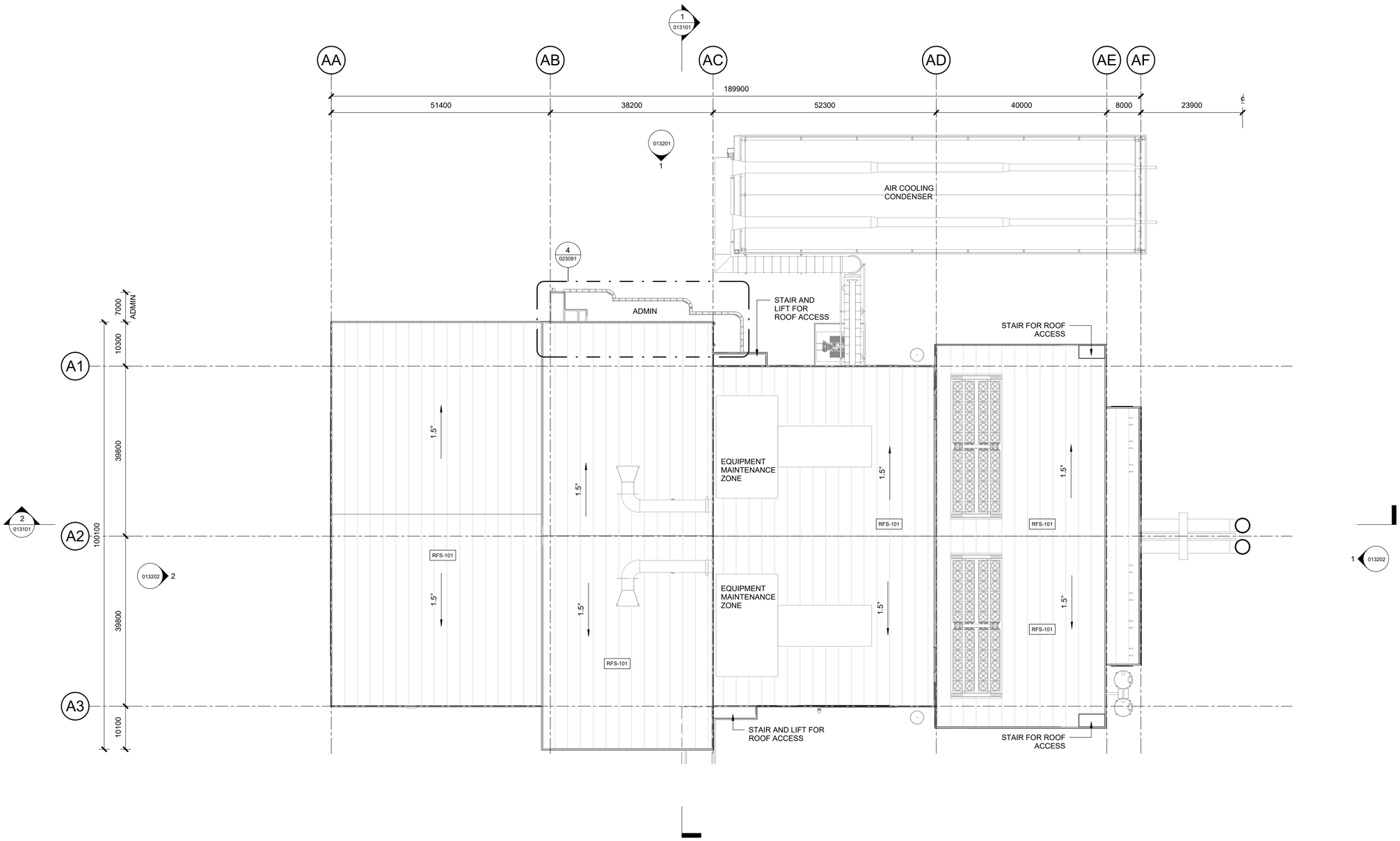
S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-013002	R02

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MATERIAL LEGEND	
CODE	DESCRIPTION
RFS-101	METAL STANDING SEAM ROOF PANELS

19/12/2025 1:54:32 PM



NOT FOR CONSTRUCTION

N

0 10m 20m

A1 1:500 | A3 1:1000

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 500

Discipline: Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title
GENERAL ARRANGEMENT
ROOF
MAIN PROCESSING BUILDING

Drawing Status: S0 - FOR INFORMATION ONLY

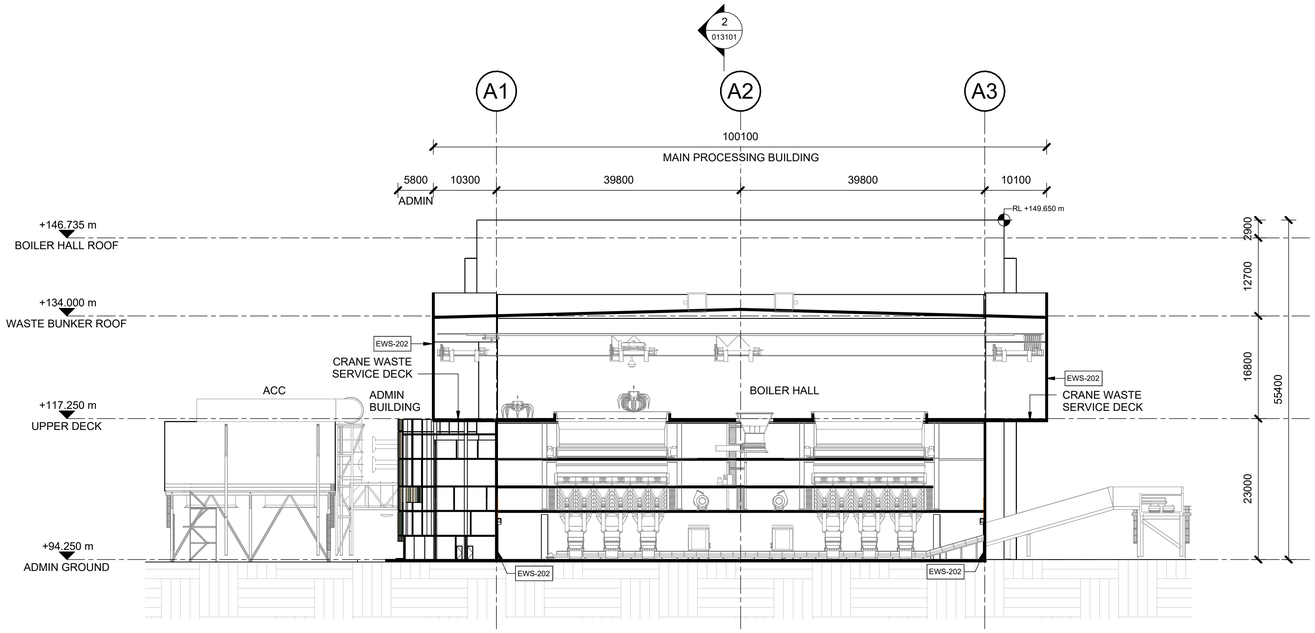
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293683-00	BERC-ARUP-BNE-ARAR-DRG-013091	R02

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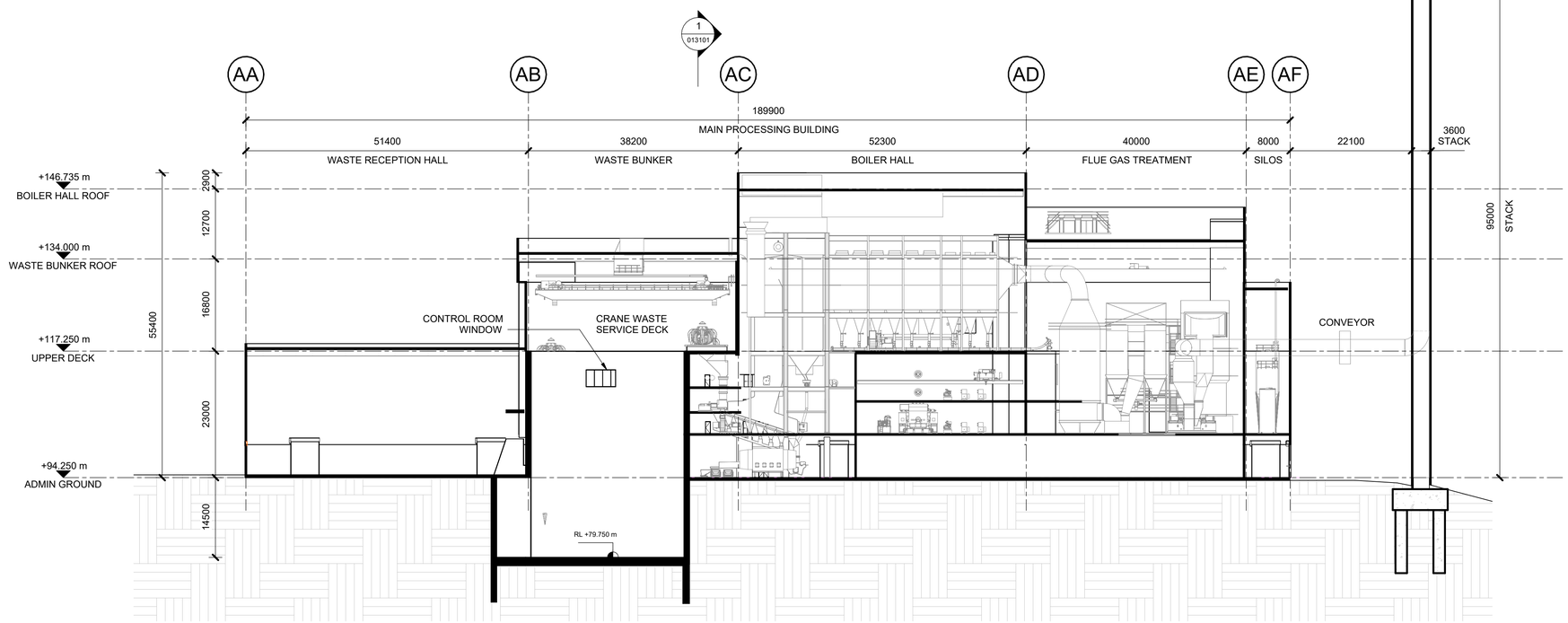
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MATERIAL LEGEND	
CODE	DESCRIPTION
EWS-202	CONCRETE WALL WITH METAL CLADDING

19/12/2025 1:26:50 PM



1 SECTION - MAIN PROCESSING BUILDING - SHORT
1 : 500



2 SECTION - MAIN PROCESSING BUILDING - LONG
1 : 500

NOT FOR CONSTRUCTION

0 10m 20m

A1 1:500 | A3 1:1000

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client
CLEANAWAY
Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title
Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 500

Discipline
Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title
GENERAL ARRANGEMENT
SECTIONS
MAIN PROCESSING BUILDING

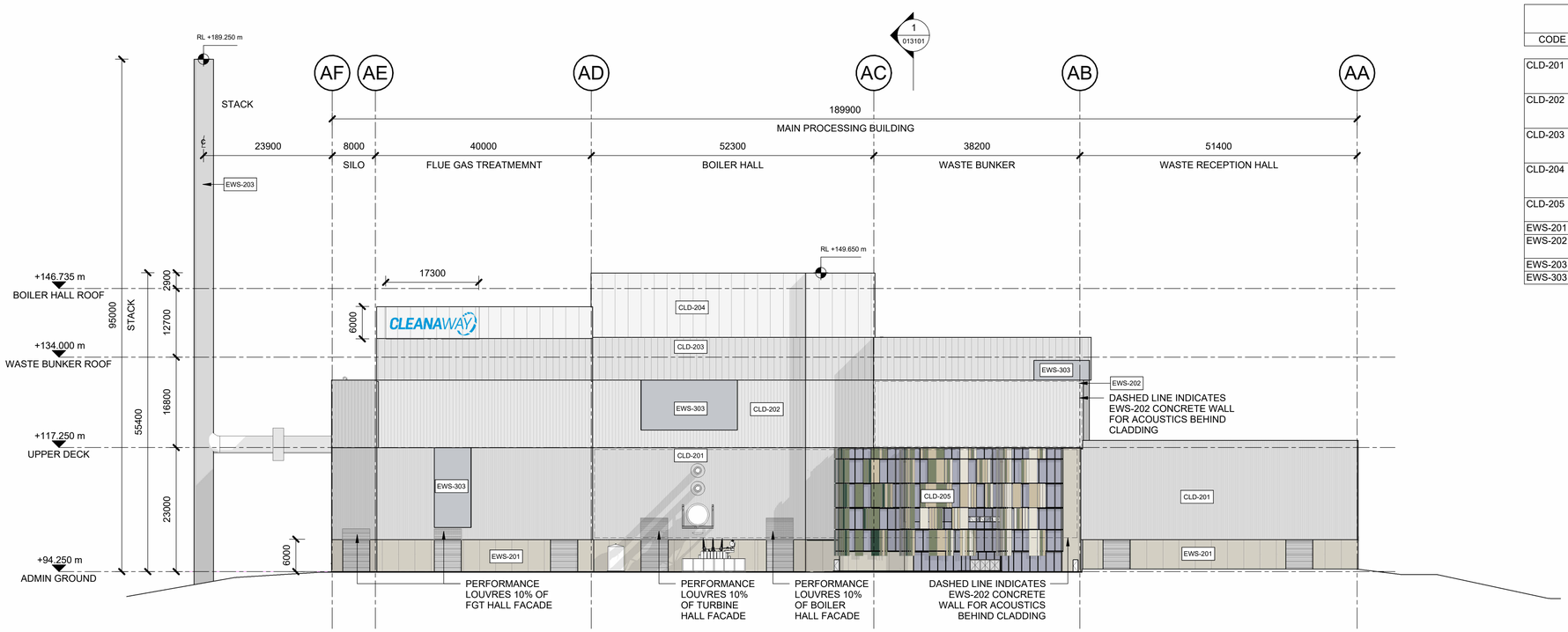
Drawing Status
S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-013101	R02

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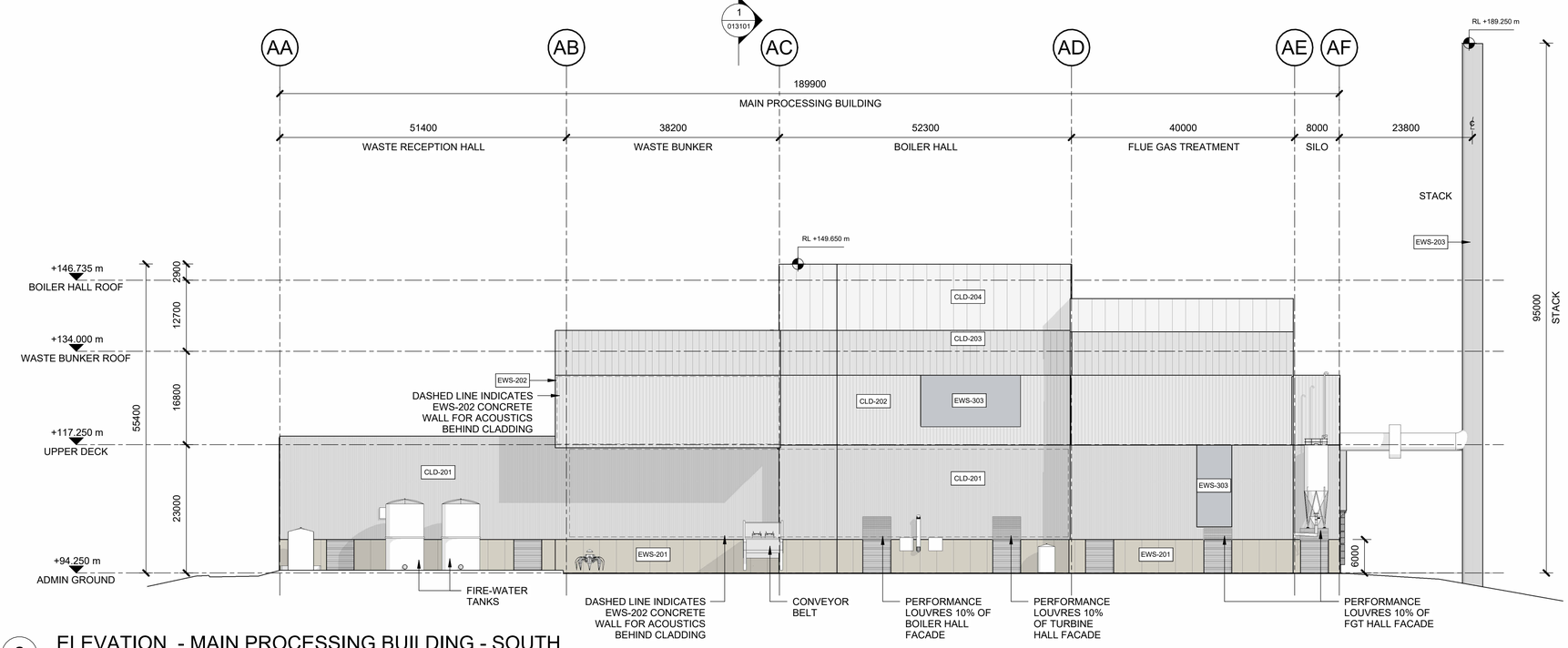
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MATERIAL LEGEND	
CODE	DESCRIPTION
CLD-201	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 300MM
CLD-202	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 600MM
CLD-203	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 1200MM
CLD-204	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 2400MM
CLD-205	ALUMINIUM PERFORATED PANEL AND SCREENING
EWS-201	TEXTURED CONCRETE PANELS
EWS-202	CONCRETE WALL WITH METAL CLADDING
EWS-203	CONCRETE STACK
EWS-303	POLYCARBONATE FACADE PANELS



1 ELEVATION - MAIN PROCESSING BUILDING - NORTH

1 : 500



2 ELEVATION - MAIN PROCESSING BUILDING - SOUTH

1 : 500

NOTE:
Refer to BERC-ARU-BNE-ARAR-SCH-000011 for material schedule

NOT FOR CONSTRUCTION

0 10m 20m

A1 1:500 | A3 1:1000

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 500

Discipline: Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

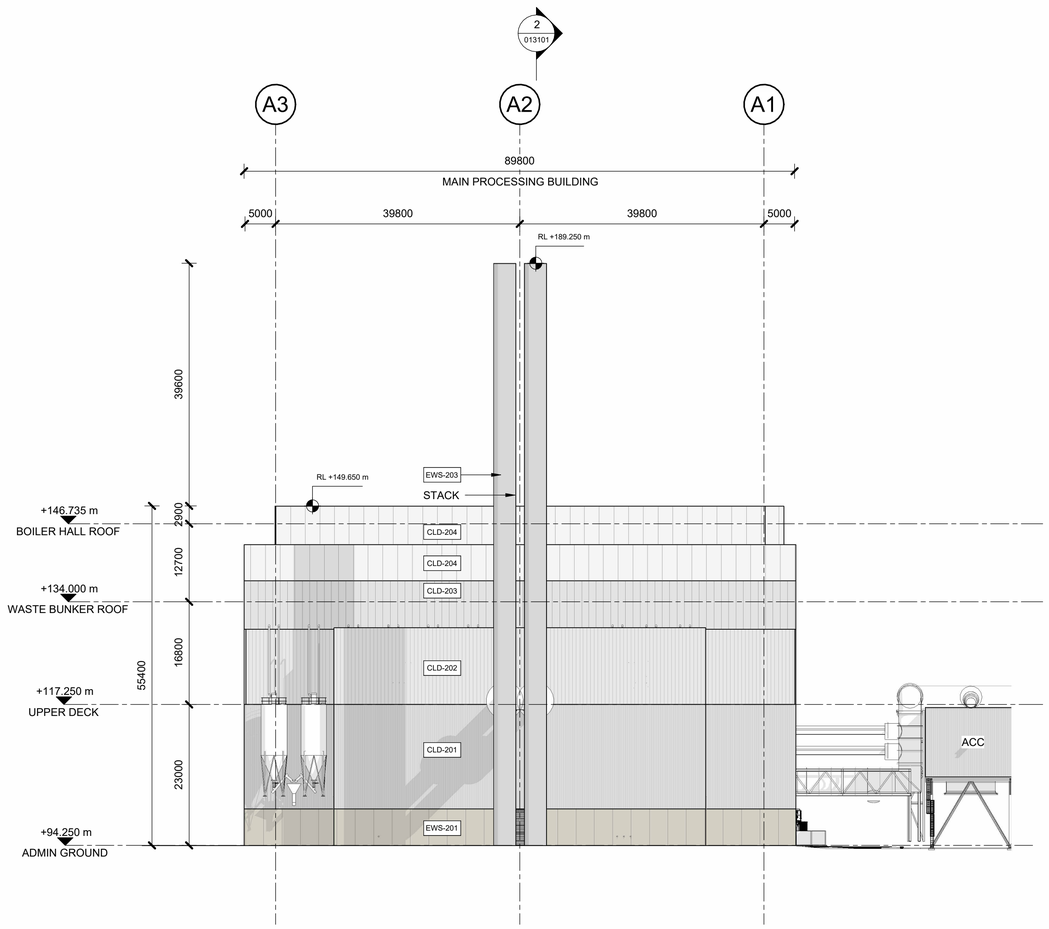
Drawing Title: GENERAL ARRANGEMENT ELEVATIONS MAIN PROCESSING BUILDING

Drawing Status: S0 - FOR INFORMATION ONLY

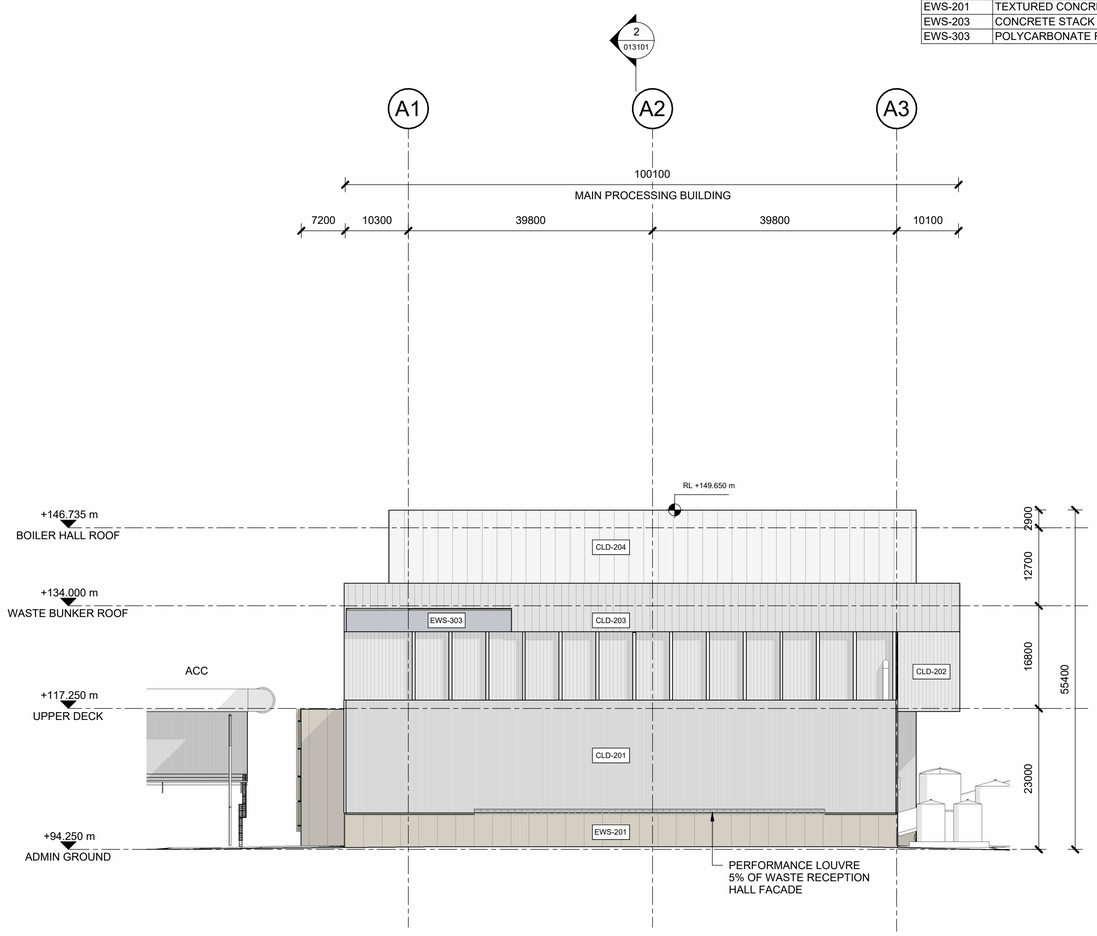
Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-013201	R02

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MATERIAL LEGEND	
CODE	DESCRIPTION
CLD-201	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 300MM
CLD-202	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 600MM
CLD-203	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 1200MM
CLD-204	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 2400MM
EWS-201	TEXTURED CONCRETE PANELS
EWS-203	CONCRETE STACK
EWS-303	POLYCARBONATE FACADE PANELS



1 ELEVATION - MAIN PROCESSING BUILDING - EAST
1 : 500



2 ELEVATION - MAIN PROCESSING BUILDING - WEST
1 : 500

NOTE:
Refer to BERC-ARU-BNE-ARAR-SCH-000011 for material schedule

NOT FOR CONSTRUCTION

0 10m 20m

A1 1:500 | A3 1:1000

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client
CLEANAWAY
Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title
Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 500

Discipline
Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title
GENERAL ARRANGEMENT
ELEVATIONS
MAIN PROCESSING BUILDING

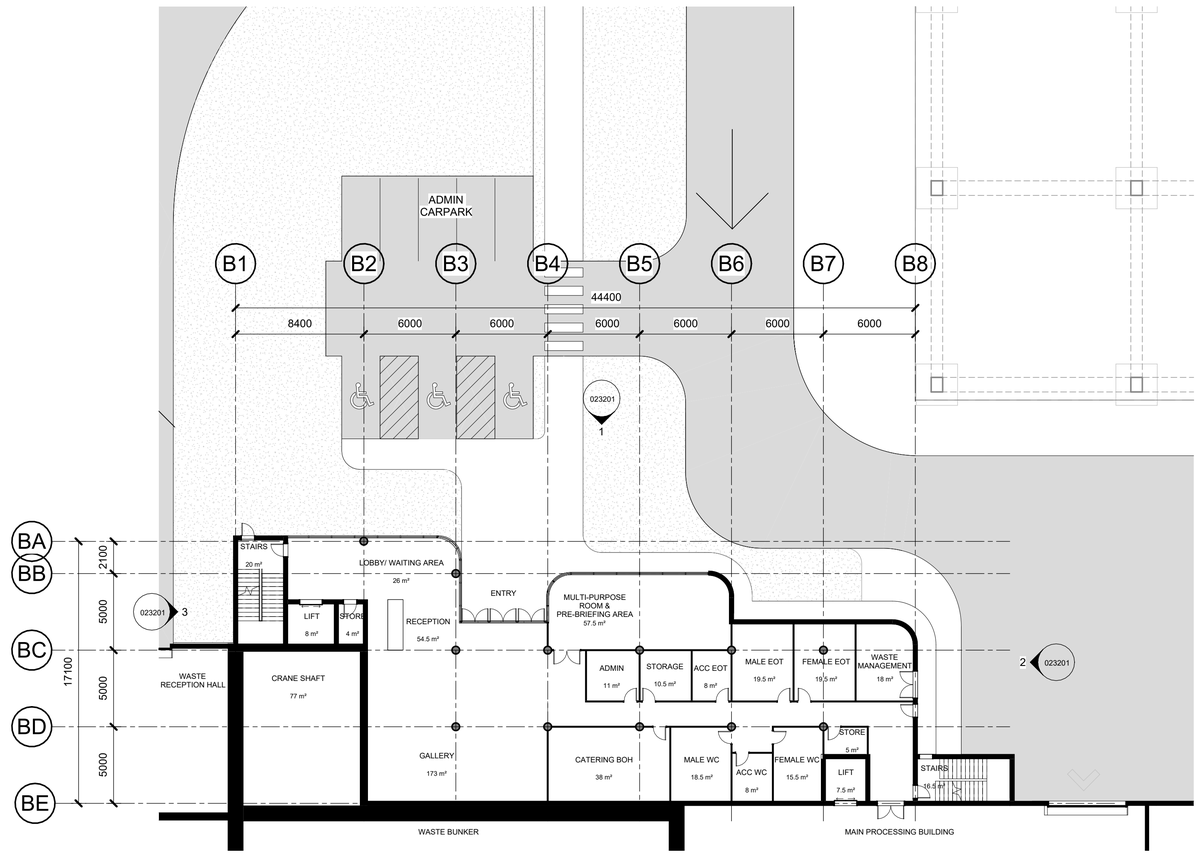
Drawing Status
S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-013202	R02

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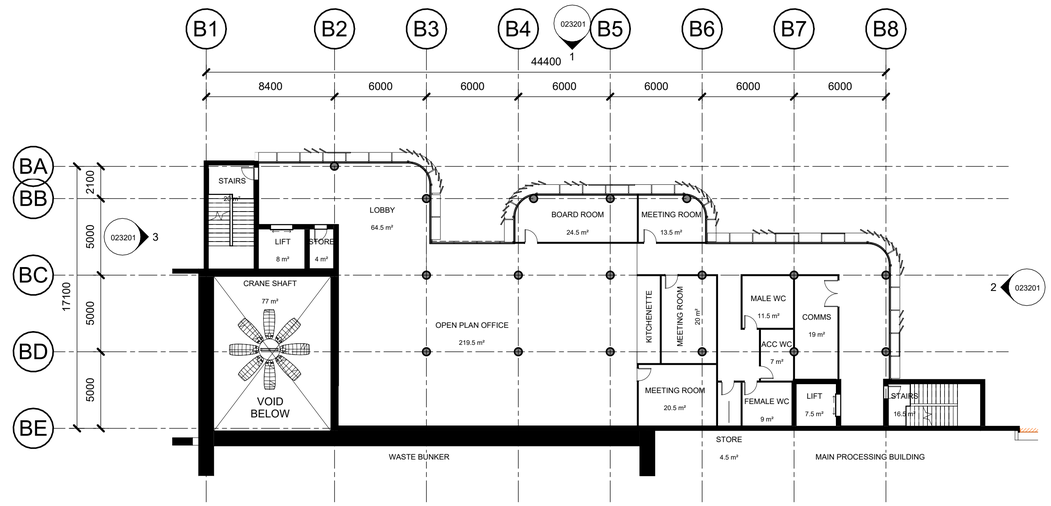
19/12/2025 1:32:46 PM

19/12/2025 1:33:01 PM



1 PLAN - ADMINISTRATION OFFICE - GROUND FLOOR

1 : 200



2 PLAN - ADMINISTRATION OFFICE - LEVEL 01

1 : 200

NOT FOR CONSTRUCTION

N

0 8m 16m

A1 1:200 | A3 1:400

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification
Name:
Signature: Date:

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 200

Discipline: Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

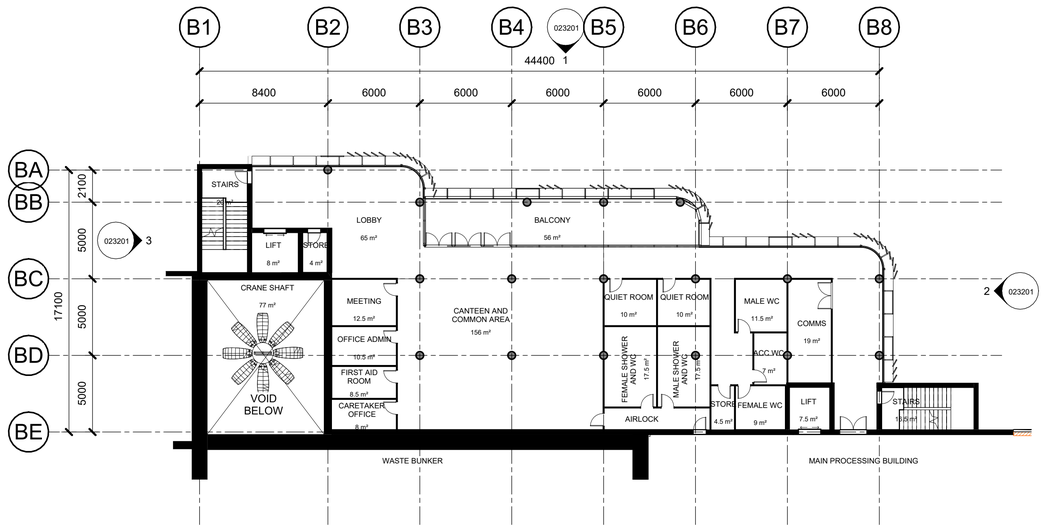
Drawing Title: GENERAL ARRANGEMENT PLANS ADMINISTRATION OFFICE

Drawing Status: S0 - FOR INFORMATION ONLY

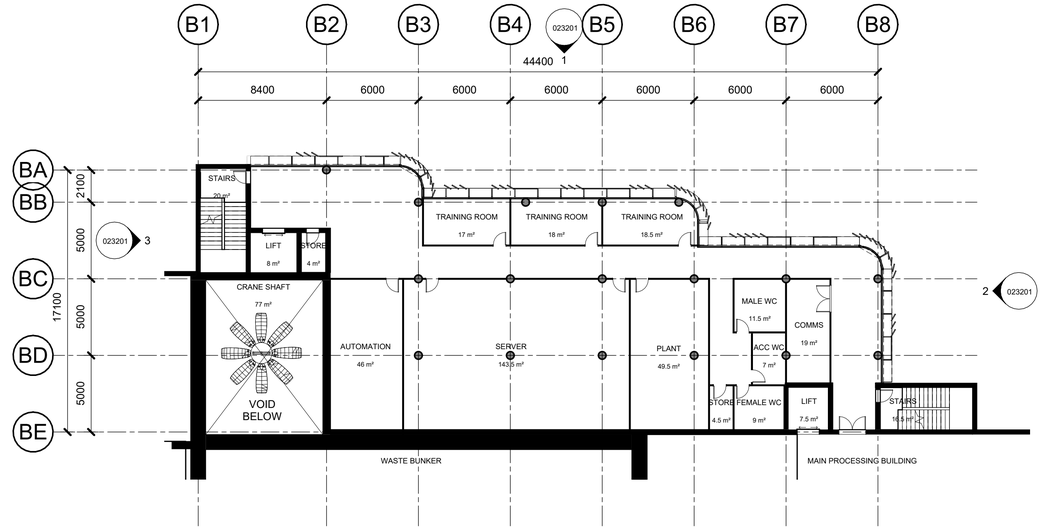
Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-023001	R02

Do not scale

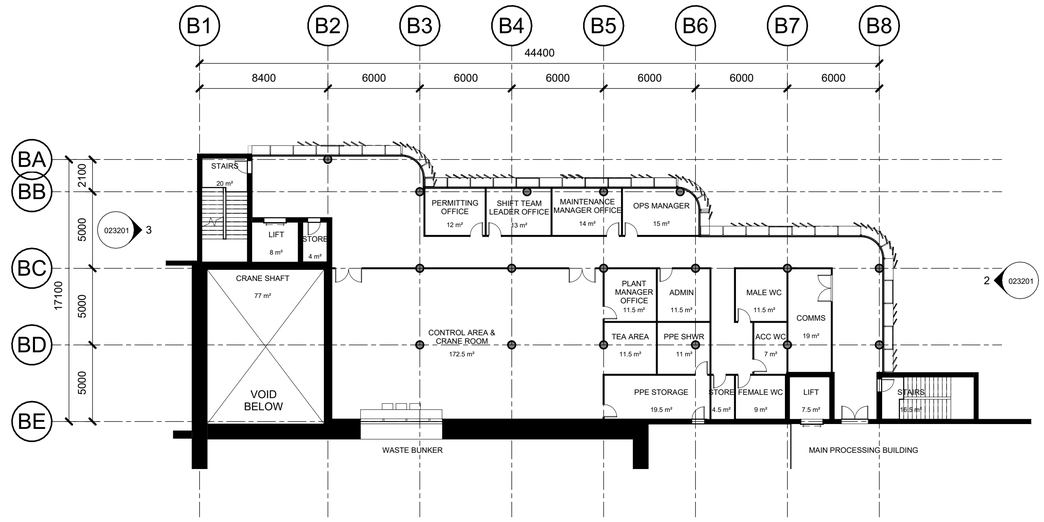
© Arup



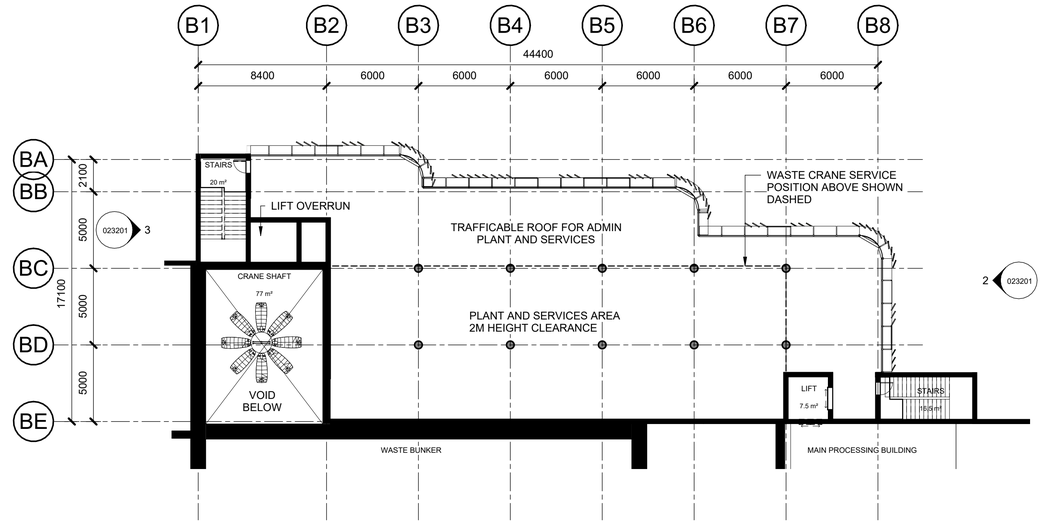
1 PLAN - ADMINISTRATION OFFICE - LEVEL 02
1 : 200



2 PLAN - ADMINISTRATION OFFICE - LEVEL 03
1 : 200



3 PLAN - ADMINISTRATION OFFICE - LEVEL 04
1 : 200



4 PLAN - ADMINISTRATION OFFICE - ROOF
1 : 200

NOT FOR CONSTRUCTION

N

0 8m 16m

A1 1:200 | A3 1:400

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client
CLEANAWAY
Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title
Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 200

Discipline
Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title
GENERAL ARRANGEMENT PLANS
ADMINISTRATION OFFICE

Drawing Status
S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-023091	R02

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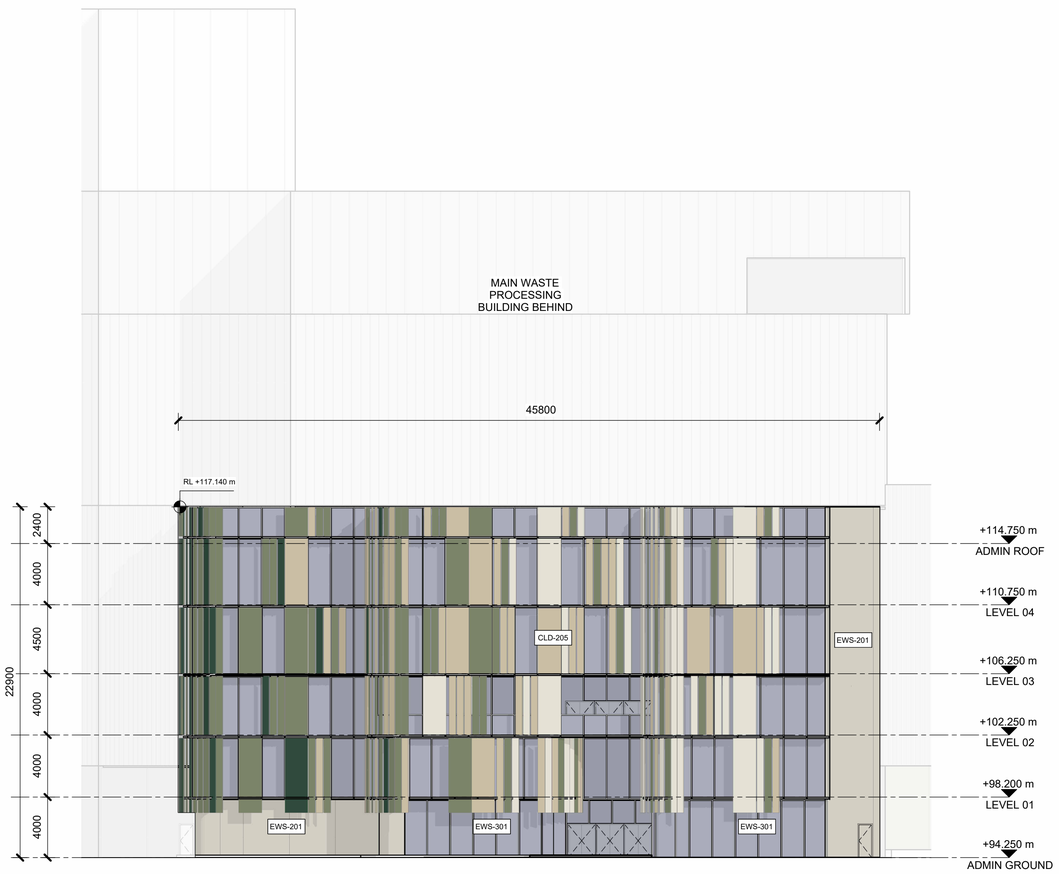
Do not scale

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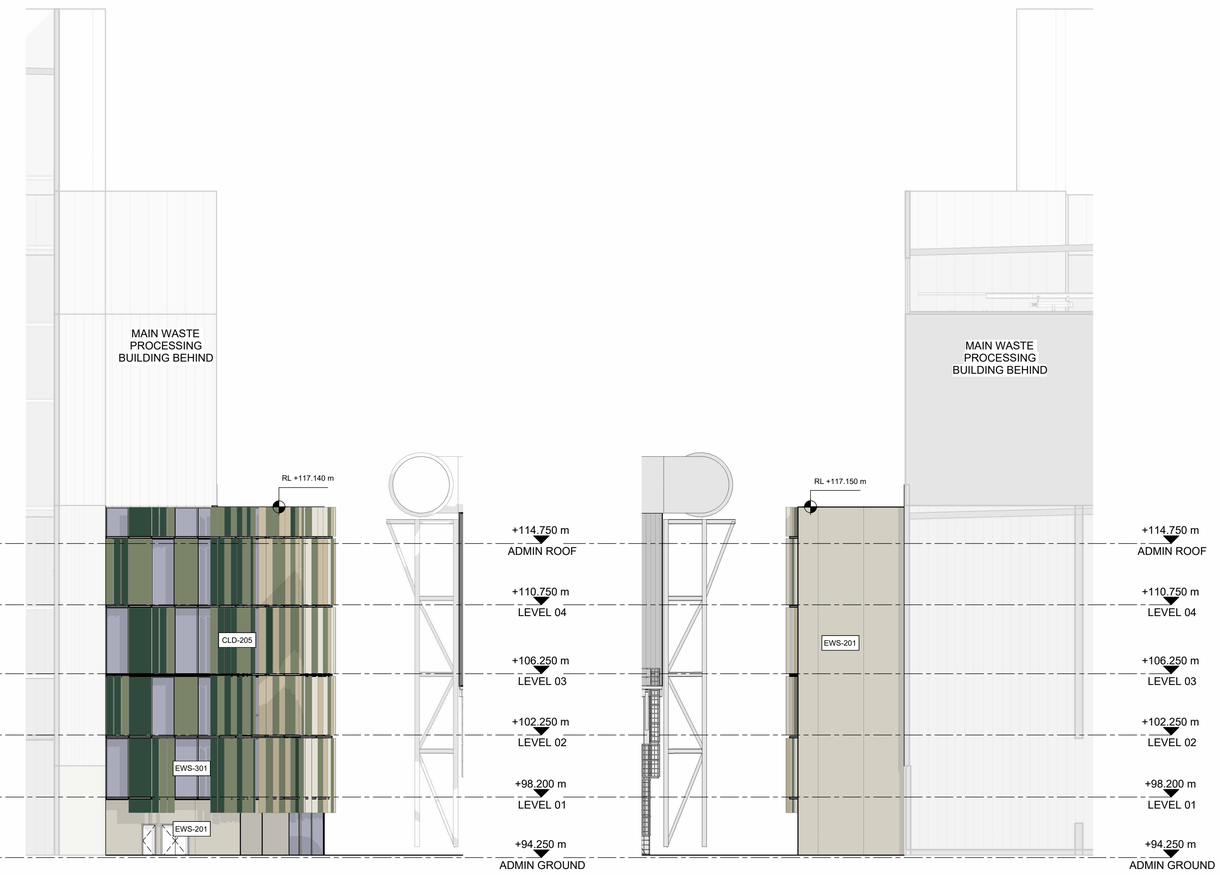
A1

MATERIAL LEGEND	
CODE	DESCRIPTION
CLD-205	ALUMINIUM PERFORATED PANEL AND SCREENING
EWS-201	TEXTURED CONCRETE PANELS
EWS-301	CURTAIN WALL GLAZING

19/12/2025 1:36:09 PM



1 ELEVATION - ADMINISTRATION OFFICE - NORTH
1 : 200



2 ELEVATION - ADMINISTRATION OFFICE - EAST
1 : 200

3 ELEVATION - ADMINISTRATION OFFICE - WEST
1 : 200

NOTE:
Refer to BERC-ARU-BNE-ARAR-SCH-000011 for material schedule

NOT FOR CONSTRUCTION

0 8m 16m

A1 1:200 | A3 1:400

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client
CLEANAWAY
Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title
Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1
1 : 200

Discipline
Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

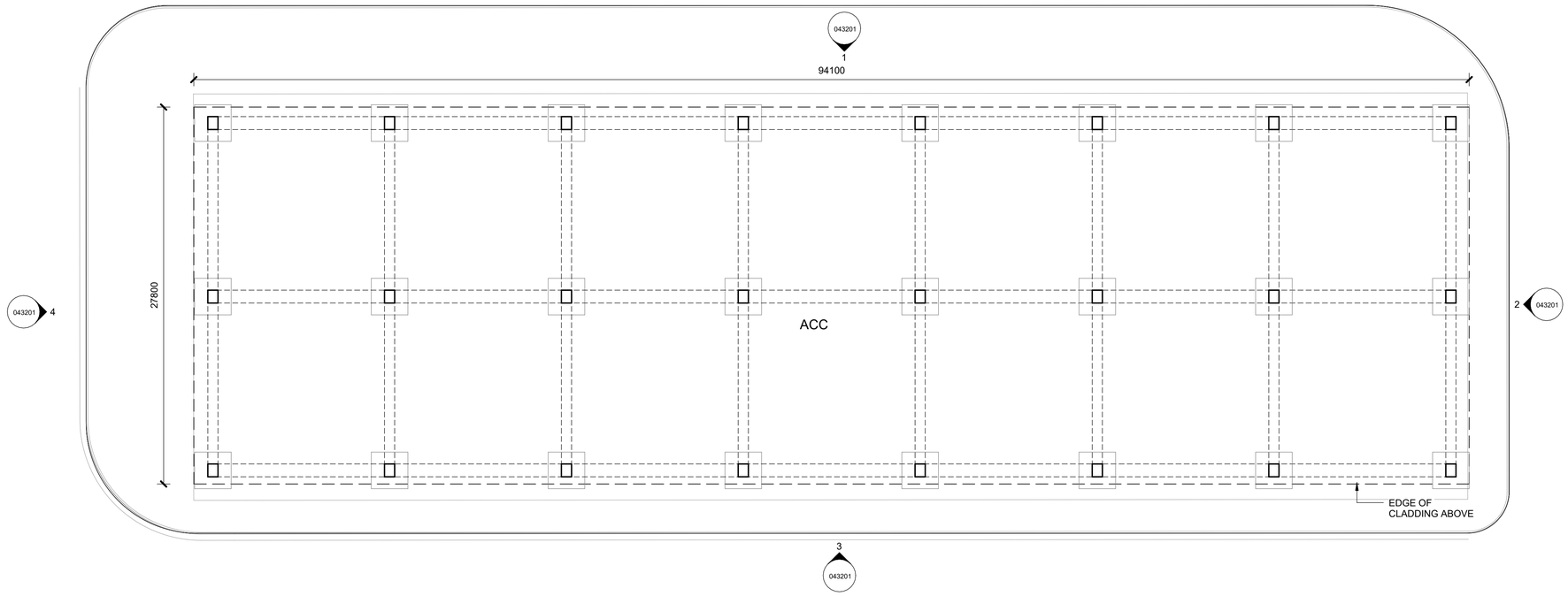
Drawing Title
GENERAL ARRANGEMENT
ELEVATIONS
ADMINISTRATION OFFICE

Drawing Status
S0 - FOR INFORMATION ONLY

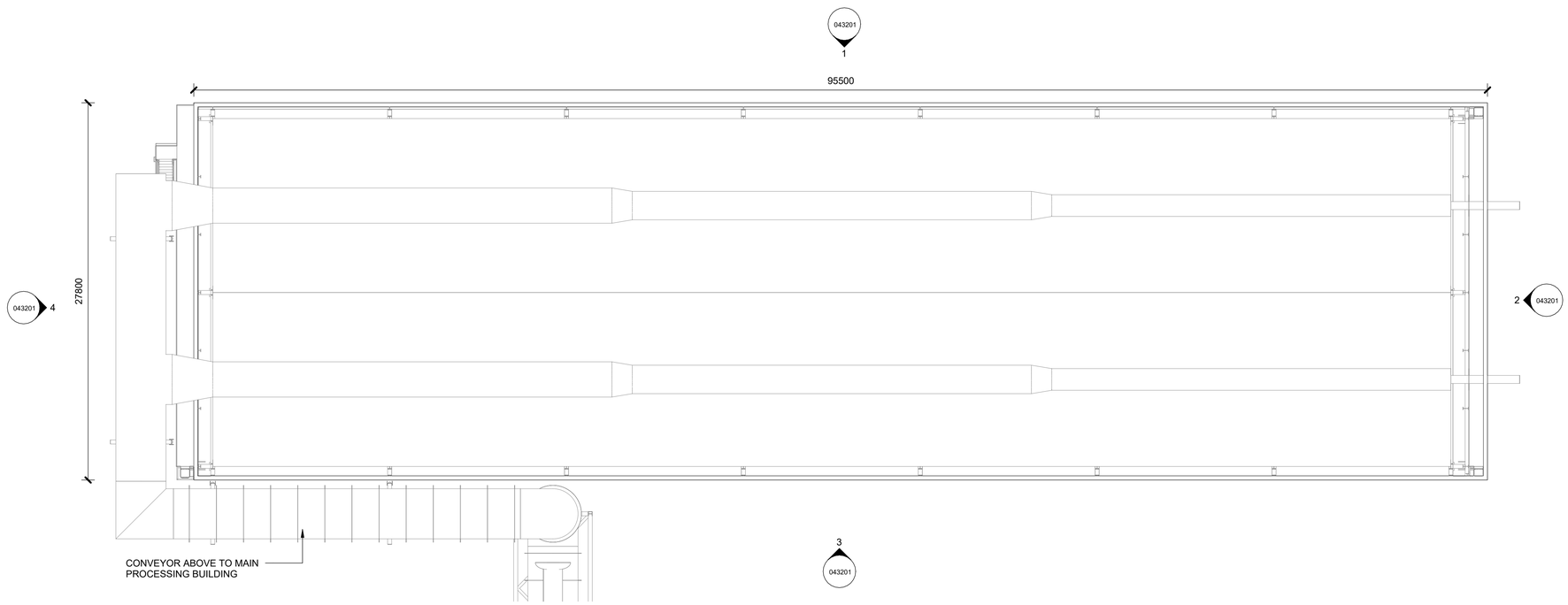
Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-023201	R02

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1 PLAN - ACC - GROUND LEVEL
1 : 200



2 PLAN - ACC - ROOF LEVEL
1 : 200

NOT FOR CONSTRUCTION

N

0 8m 16m

A1 1:200 | A3 1:400

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client
CLEANAWAY
Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title
Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 200

Discipline
Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title
GENERAL ARRANGEMENT
PLANS
AIR COOLING CONDENSORS

Drawing Status
S0 - FOR INFORMATION ONLY

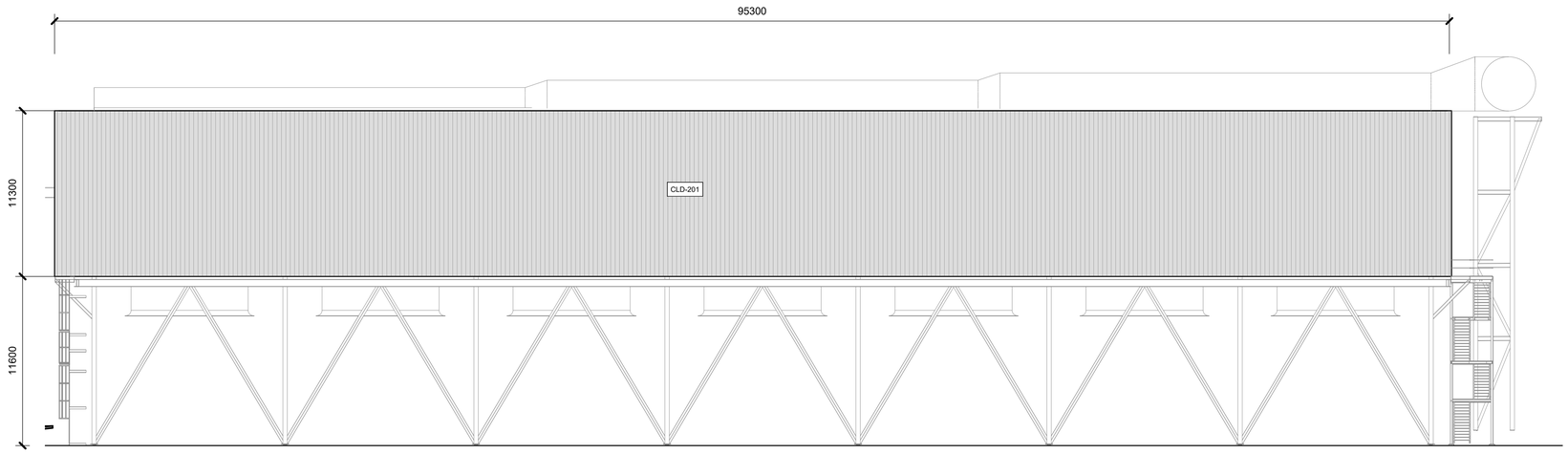
Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-043001	R02

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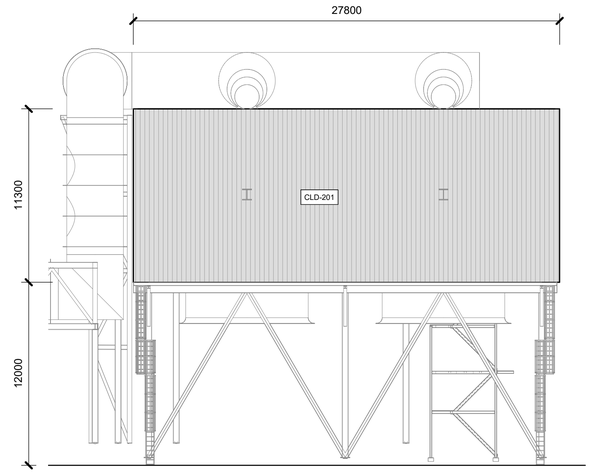
A1

MATERIAL LEGEND	
CODE	DESCRIPTION
CLD-201	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 300MM

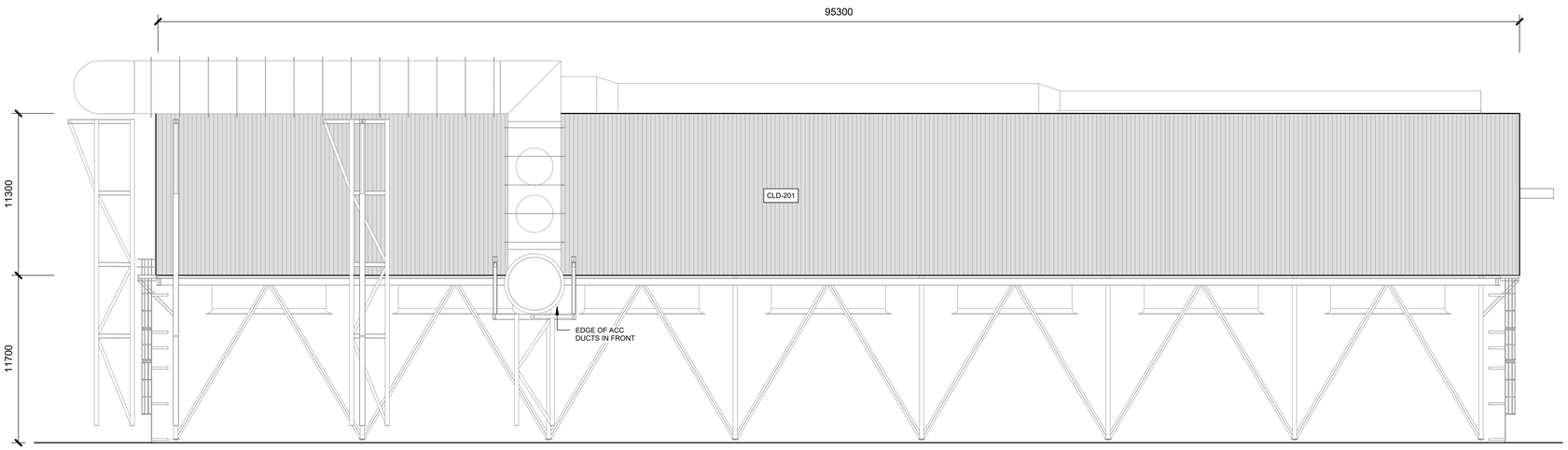
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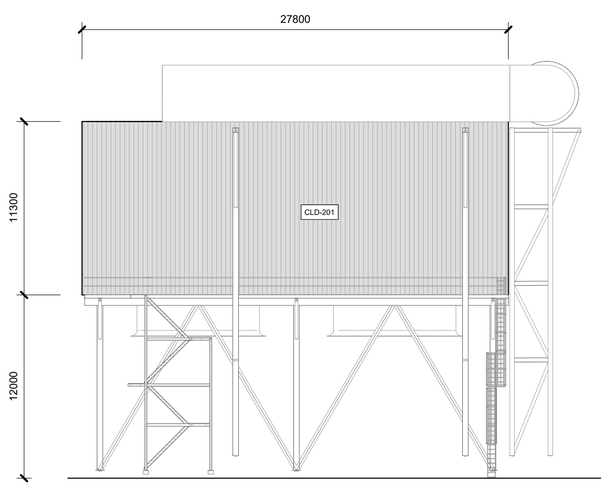
1 ELEVATION - ACC - NORTH
1 : 200



2 ELEVATION - ACC - EAST
1 : 200



3 ELEVATION - ACC - SOUTH
1 : 200



4 ELEVATION - ACC - WEST
1 : 200

NOTE:
Refer to BERC-ARU-BNE-ARAR-SCH-000011 for material schedule

NOT FOR CONSTRUCTION

0 8m 16m

A1 1:200 | A3 1:400

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client
CLEANAWAY
Making a sustainable future possible

Architectural Certification
Name:
Signature: Date:

Job Title
Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 200

Discipline
Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

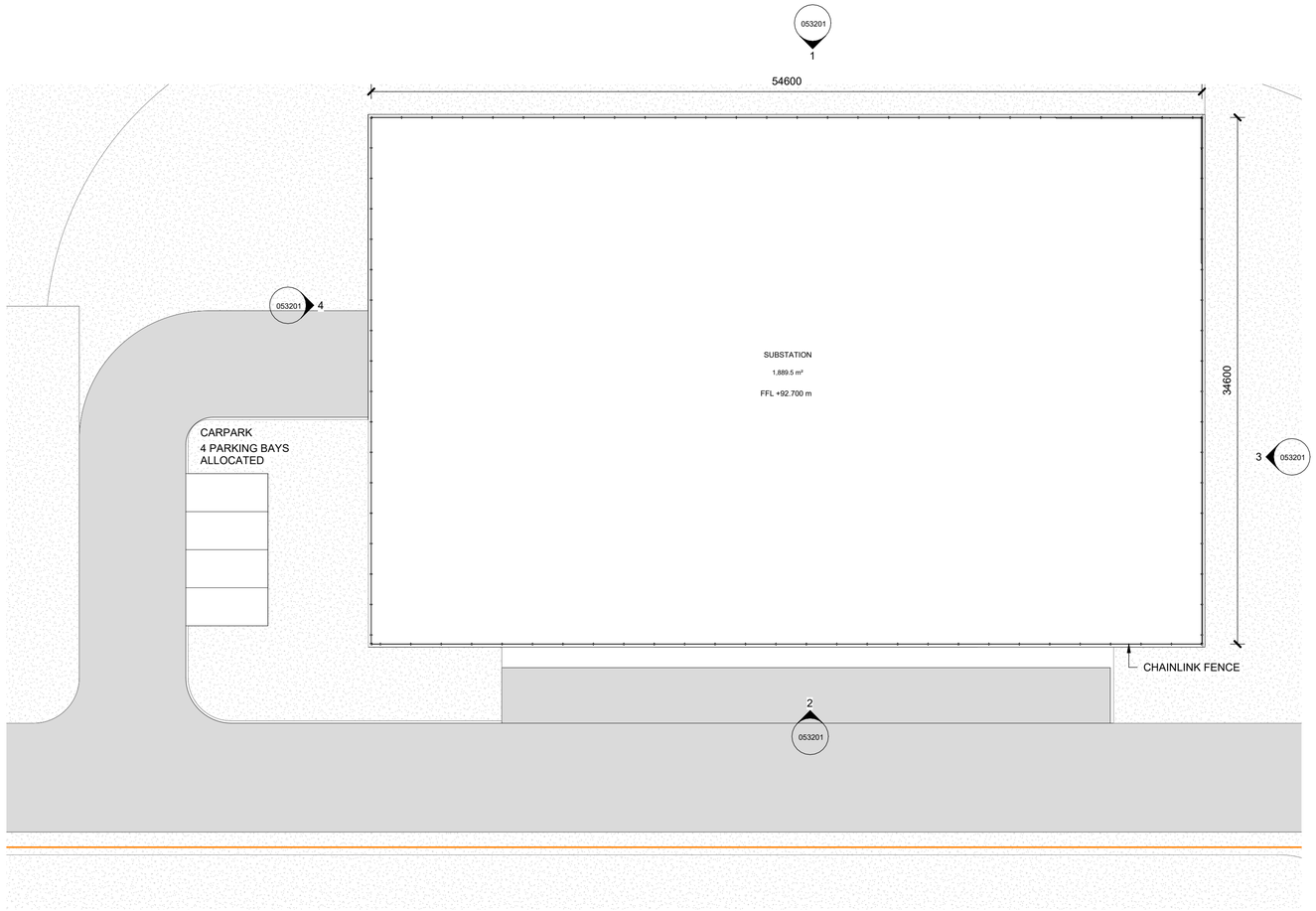
Drawing Title
GENERAL ARRANGEMENT
ELEVATIONS
AIR COOLING CONDENSORS

Drawing Status
S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-043201	R02

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19/12/2025 1:37:19 PM



NOT FOR CONSTRUCTION

N

0 8m 16m

A1 1:200 | A3 1:400

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client
CLEANAWAY
Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title
Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1
1 : 200

Discipline
Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

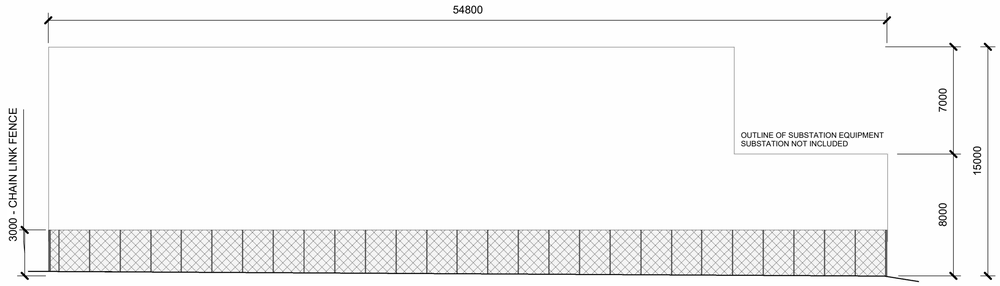
Drawing Title
GENERAL ARRANGEMENT
SITE
SUBSTATION

Drawing Status
S0 - FOR INFORMATION ONLY

Job No **293683-00**
Drawing No **BERC-ARUP-BNE-ARAR-DRG-053001**
Issue **R02**

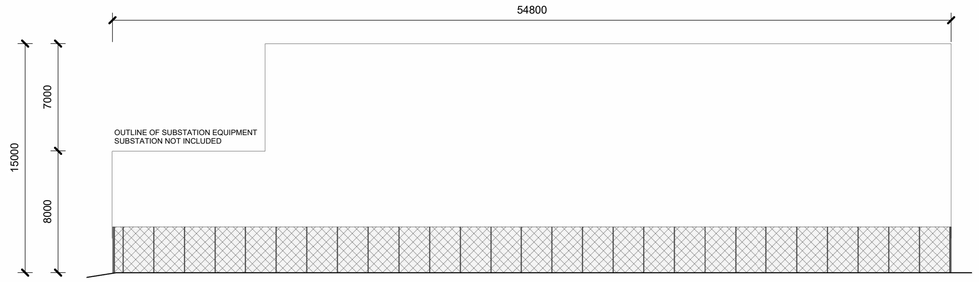
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19/12/2025 1:37:34 PM



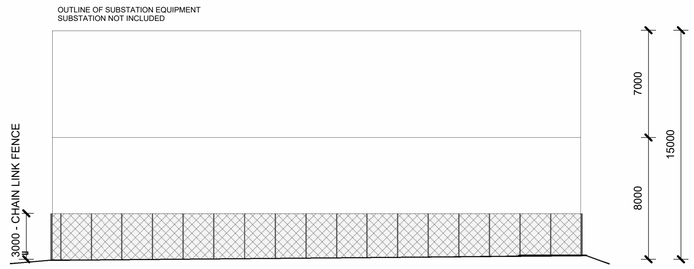
1 ELEVATION - BUILDING 05 - NORTH

1 : 200



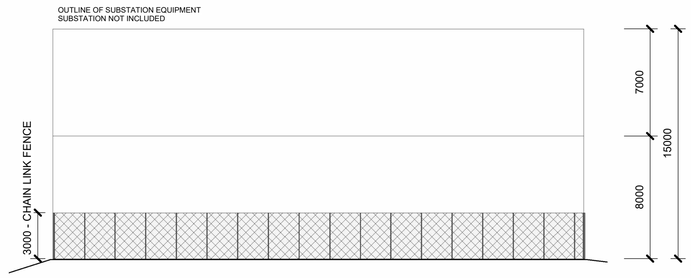
2 ELEVATION - BUILDING 05 - SOUTH

1 : 200



3 ELEVATION - BUILDING 05 - EAST

1 : 200



4 ELEVATION - BUILDING 05 - WEST

1 : 200

NOTE:
Refer to BERC-ARU-BNE-ARAR-SCH-000011 for material schedule

NOT FOR CONSTRUCTION

0 8m 16m

A1 1:200 | A3 1:400

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 200

Discipline: Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title: GENERAL ARRANGEMENT
ELEVATIONS
SUBSTATION

Drawing Status: S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-053201	R02

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A1

MATERIAL LEGEND	
CODE	DESCRIPTION
EWS-201	TEXTURED CONCRETE PANELS
EWS-301	CURTAIN WALL GLAZING

19/12/2025 1:37:40 PM



NOT FOR CONSTRUCTION

N

0 8m 16m

A1 1:200 | A3 1:400

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client

CLEANAWAY
Making a sustainable future possible

Architectural Certification

Name: .....

Signature: ..... Date: .....

Job Title

Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 200

Discipline Architecture

ARUP

Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title
GENERAL ARRANGEMENT
PLANS - GROUND LEVEL
IBA

Drawing Status
S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-063091	R02

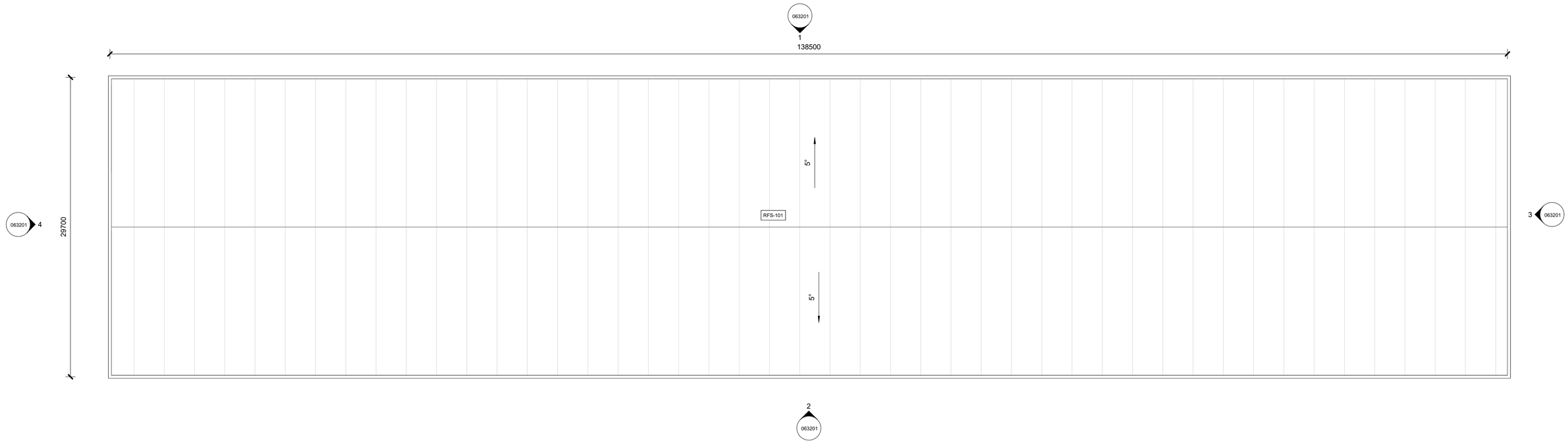
Do not scale

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A1

MATERIAL LEGEND	
CODE	DESCRIPTION
RFS-101	METAL STANDING SEAM ROOF PANELS

19/12/2025 1:37:53 PM



NOT FOR CONSTRUCTION

N

0 8m 16m

A1 1:200 | A3 1:400

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client

CLEANAWAY
Making a sustainable future possible

Architectural Certification

Name: .....

Signature: ..... Date: .....

Job Title

Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 200

Discipline Architecture

ARUP

Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title

GENERAL ARRANGEMENT PLANS - ROOF LEVEL IBA

Drawing Status

S0 - FOR INFORMATION ONLY

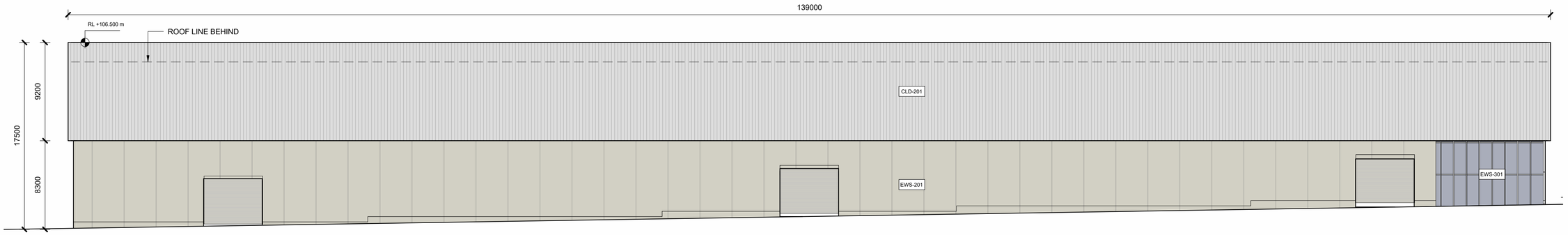
Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-063092	R02

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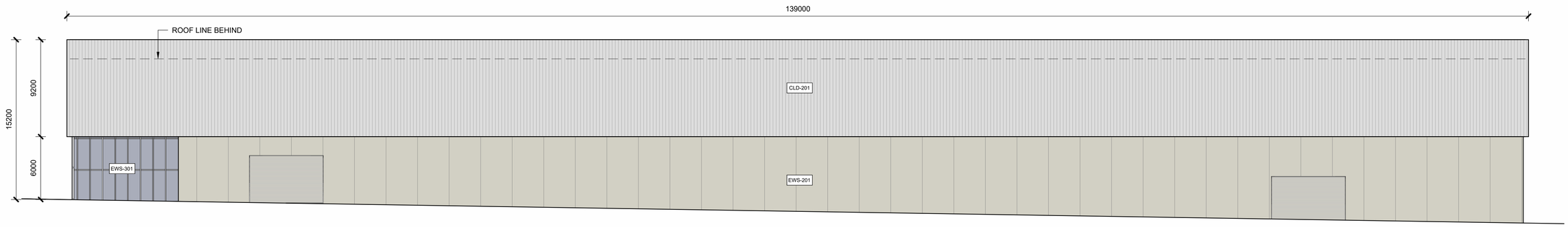
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MATERIAL LEGEND	
CODE	DESCRIPTION
CLD-201	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 300MM
EWS-201	TEXTURED CONCRETE PANELS
EWS-301	CURTAIN WALL GLAZING

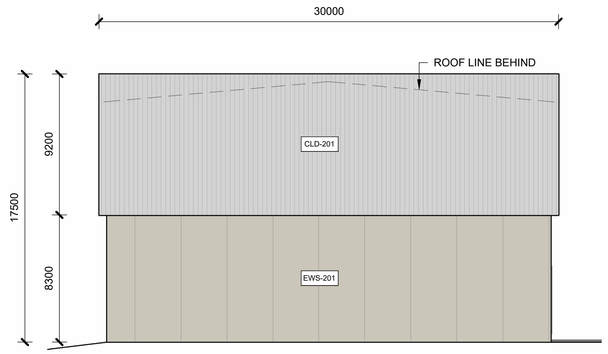
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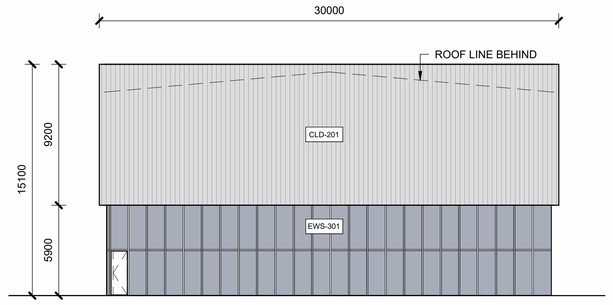
1 ELEVATION - IBA - NORTH
1 : 200



2 ELEVATION - IBA - SOUTH
1 : 200



3 ELEVATION - IBA - EAST
1 : 200



4 ELEVATION - IBA - WEST
1 : 200

NOTE:
Refer to BERC-ARU-BNE-ARAR-SCH-000011 for material schedule

NOT FOR CONSTRUCTION

0 8m 16m

A1 1:200 | A3 1:400

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client
CLEANAWAY
Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title
Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 200

Discipline
Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

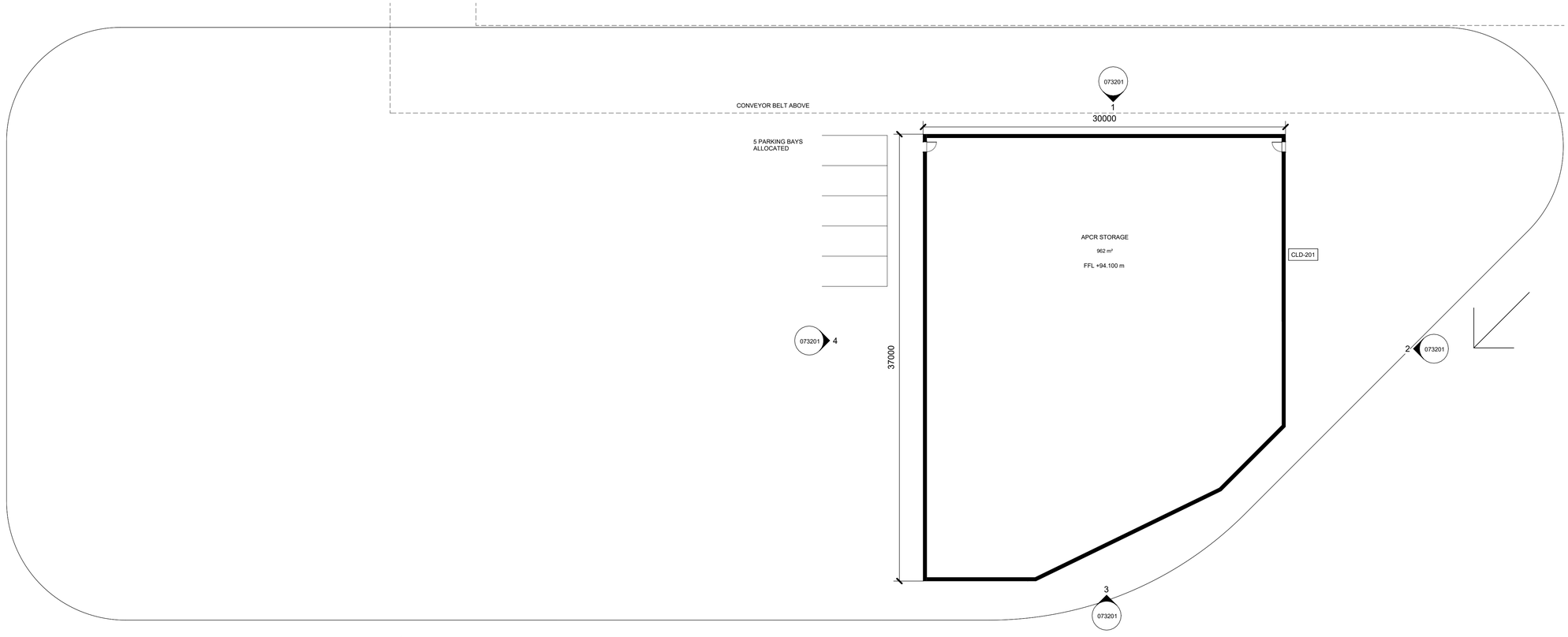
Drawing Title
GENERAL ARRANGEMENT
ELEVATIONS
IBA

Drawing Status
S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-063201	R02

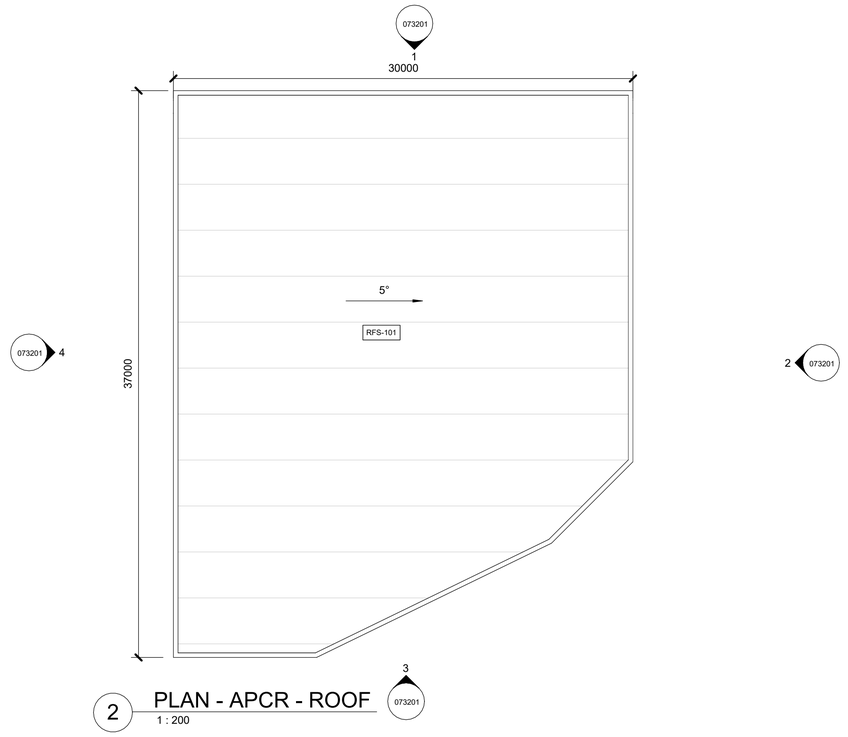
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19/12/2025 1:38:23 PM



1 PLAN - APCR - GROUND FLOOR

1 : 200



2 PLAN - APCR - ROOF

1 : 200

MATERIAL LEGEND	
CODE	DESCRIPTION
CLD-201	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 300MM
RFS-101	METAL STANDING SEAM ROOF PANELS

NOT FOR CONSTRUCTION

N

0 8m 16m

A1 1:200 | A3 1:400

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 200

Discipline: Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title
GENERAL ARRANGEMENT PLANS
APCR STORAGE

Drawing Status: S0 - FOR INFORMATION ONLY

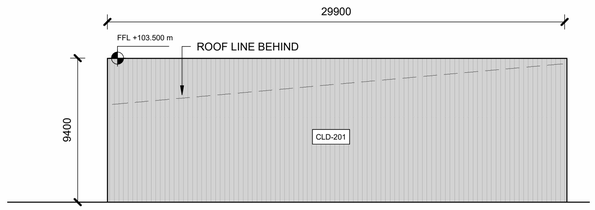
Job No: **293683-00** | Drawing No: **BERC-ARUP-BNE-ARAR-DRG-073091** | Issue: **R02**

Do not scale

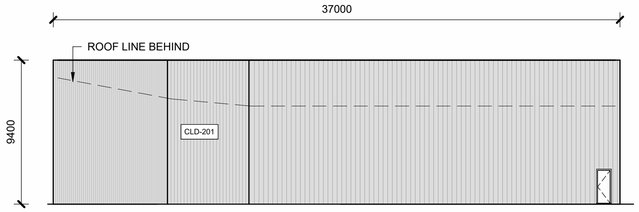
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19/12/2025 1:38:43 PM

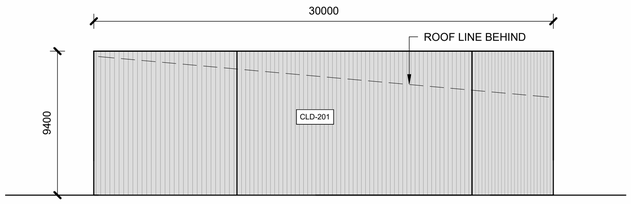
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CODE	DESCRIPTION
CLD-201	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 300MM



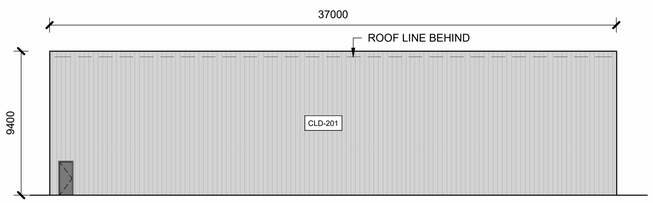
1 APCR - NORTH ELEVATION
1 : 200



2 APCR - EAST ELEVATION
1 : 200



3 APCR - SOUTH ELEVATION
1 : 200



4 APCR - WEST ELEVATION
1 : 200

NOTE:
Refer to BERC-ARU-BNE-ARAR-SCH-000011 for material schedule

NOT FOR CONSTRUCTION

0 8m 16m

A1 1:200 | A3 1:400

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client
CLEANAWAY
Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title
Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 200

Discipline
Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title
GENERAL ARRANGEMENT ELEVATIONS APCR STORAGE

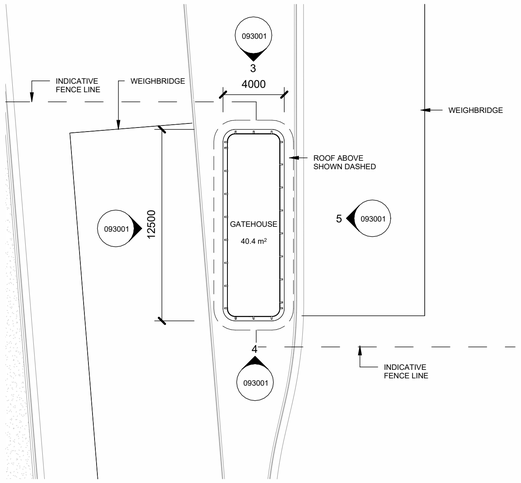
Drawing Status
S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-073201	R02

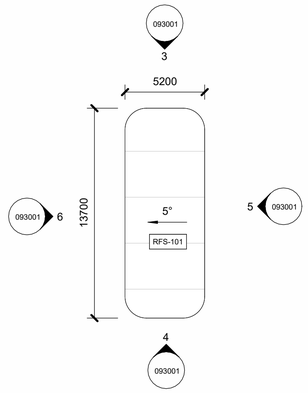
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MATERIAL LEGEND	
CODE	DESCRIPTION
EWS-201	TEXTURED CONCRETE PANELS
EWS-301	CURTAIN WALL GLAZING
RFS-101	METAL STANDING SEAM ROOF PANELS

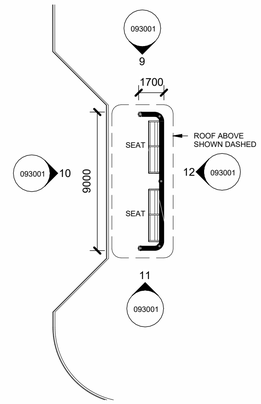
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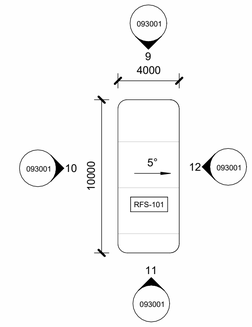
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1 : 200



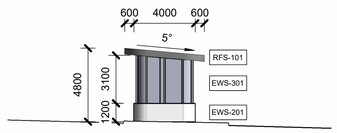
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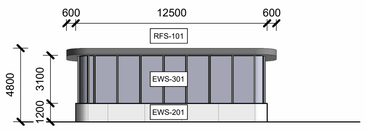
7 BUS SHELTER - GROUND FLOOR PLAN
1 : 200



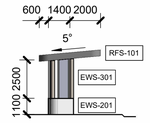
8 BUS SHELTER - ROOF PLAN
1 : 200



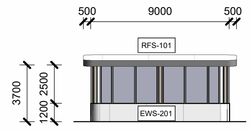
3 GATEHOUSE - NORTH ELEVATION
1 : 200



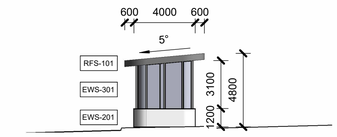
5 GATEHOUSE - EAST ELEVATION
1 : 200



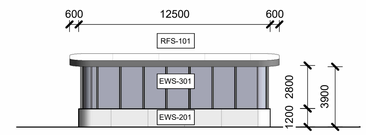
9 BUS SHELTER - NORTH ELEVATION
1 : 200



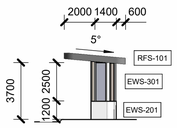
12 BUS SHELTER - EAST ELEVATION
1 : 200



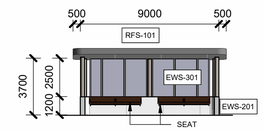
4 GATEHOUSE -SOUTH ELEVATION
1 : 200



6 GATEHOUSE - WEST ELEVATION
1 : 200



11 BUS SHELTER - SOUTH ELEVATION
1 : 200



10 BUS SHELTER - WEST ELEVATION
1 : 200

NOTE:
Refer to BERC-ARU-BNE-ARAR-SCH-000011 for material schedule

NOT FOR CONSTRUCTION

0 8m 16m

A1 1:200 | A3 1:400

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client
CLEANAWAY
Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title
Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 200

Discipline
Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia
Arup Pty Ltd
ABN 18 000 966 165

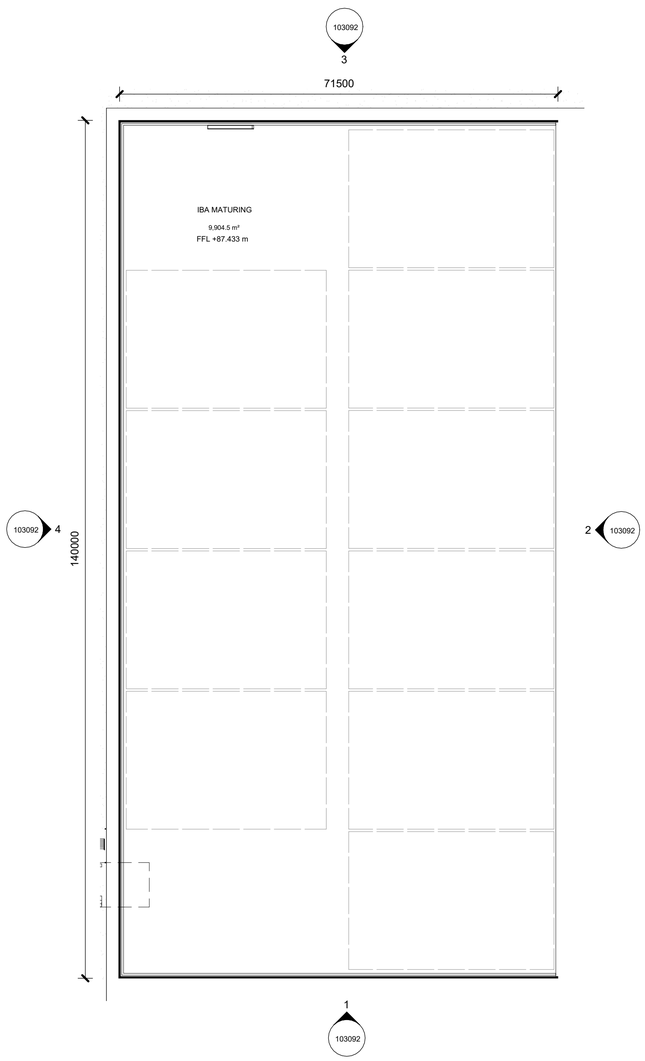
Drawing Title
GENERAL ARRANGEMENT
PLANS AND ELEVATIONS
GATE HOUSE AND BUS SHELTER

Drawing Status
S0 - FOR INFORMATION ONLY

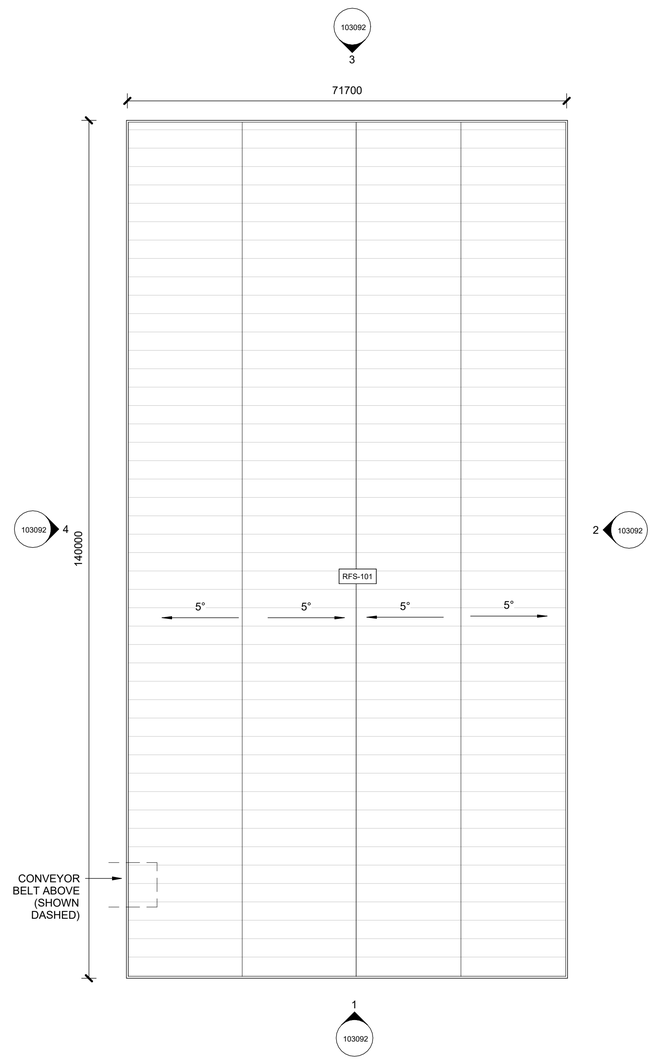
Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-093001	R02

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19/12/2025 1:39:34 PM



1 PLAN - IBA MATURING - GROUND FLOOR
1 : 500



2 PLAN - IBA MATURING - ROOF
1 : 500

NOT FOR CONSTRUCTION

N

0 10m 20m

A1 1:500 | A3 1:1000

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 500

Discipline: Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

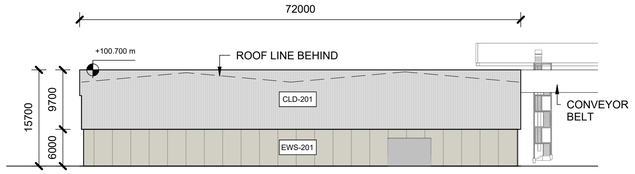
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Drawing Status: S0 - FOR INFORMATION ONLY

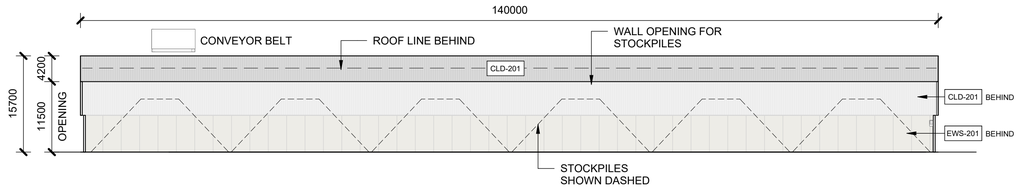
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293683-00	BERC-ARUP-BNE-ARAR-DRG-103091	R02

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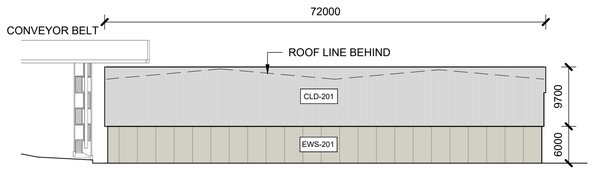
MATERIAL LEGEND	
CODE	DESCRIPTION
CLD-201	METAL CONCEALED FIXED CLADDING SYSTEM WITH EXPRESSED VERTICAL FOLD FIXING EVERY 300MM
EWS-201	TEXTURED CONCRETE PANELS



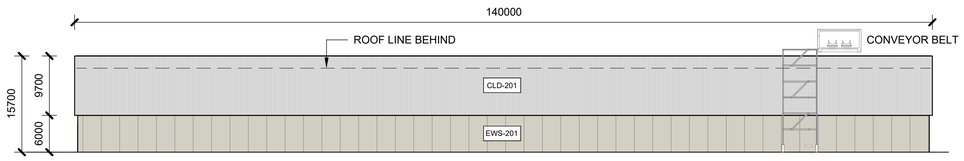
3 IBA MATURING - NORTH ELEVATION
1 : 500



2 IBA MATURING - EAST ELEVATION
1 : 500



1 IBA MATURING - SOUTH ELEVATION
1 : 500



4 IBA MATURING - WEST ELEVATION
1 : 500

NOTE:
Refer to BERC-ARU-BNE-ARAR-SCH-000011 for material schedule

NOT FOR CONSTRUCTION

0 10m 20m

A1 1:500 | A3 1:1000

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
R02	19/09/2025	SC	CH	MB
R01	18/08/2025	SC	CH	MB

Client
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Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title
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Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 500

Discipline
Architecture

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
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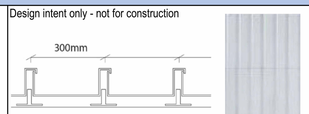
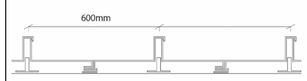
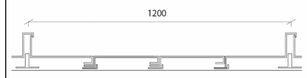
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GENERAL ARRANGEMENT ELEVATIONS
IBA MATURATION BUILDING

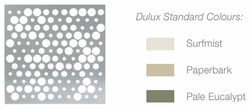
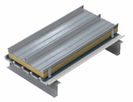
Drawing Status
S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-DRG-103092	R02

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CODE	DESCRIPTION	COLOURS/ FINISH	REMARKS	IMAGE	LOCATIONS
Main Processing Facility & Ancillary Buildings - Metal Façade Types					
CLD-201	Metal conceal fixed cladding system with expressed vertical fold fixing every 300mm	Archclad Colorbond (or similar and approved by architect)	Material: Non-Conbustable Pre-Finished metal Thickness: 0.8mm metal cladding and substrate/ wall build-up as required to meet acoustic performance requirements. Size: Nom. 300mm wide including folds and substructure. 6000 high panels with expressed vertical fold fixings at 300mm centres (or similar system to be approved by architect) Expressed fold fixings to be minimum 50 wide x 100 mm deep. Fixing: to steel frame Notes: Mock-up to be provided prior to final confirmation Performance Requirements: Acoustic requirements: minimum Rw 29 Light Reflectance Value (LRV) requirement: <40 to meet non-reflective requirements	Design intent only - not for construction 	MAIN PROCESSING FACILITY & ANCILLARY BUILDINGS (IBA BUILDING, ACC, APCR)
CLD-202	Metal conceal fixed cladding system with expressed vertical fold fixing every 600mm	Archclad Colorbond (or similar and approved by architect)	Material: Non-Conbustable Pre-Finished metal Thickness: 0.8mm metal cladding and substrate/ wall build-up as required to meet acoustic performance requirements. Size: Nom. 300mm wide including folds and substructure. 6000 high panels with expressed vertical fold fixings at 600mm centres (or similar system to be approved by architect) Expressed fold fixings to be minimum 50 wide x 100 mm deep. Fixing: to steel frame Notes: Mock-up to be provided prior to final confirmation Performance Requirements: Acoustic requirements: minimum Rw 29 Light Reflectance Value (LRV) requirement: <40 to meet non-reflective requirements	Design intent only - not for construction 	MAIN PROCESSING FACILITY
CLD-203	Metal conceal fixed cladding system with expressed vertical fold fixing every 1200mm	Archclad Colorbond (or similar and approved by architect)	Material: Non-Conbustable Pre-Finished metal Thickness: 0.8mm metal cladding and substrate/ wall build-up as required to meet acoustic performance requirements. Size: Nom. 300mm wide including folds and substructure. 6000 high panels with expressed vertical fold fixings at 1200mm centres (or similar system to be approved by architect) Expressed fold fixings to be minimum 50 wide x 100 mm deep. Fixing: to steel frame Notes: Mock-up to be provided prior to final confirmation Performance Requirements: Acoustic requirements: minimum Rw 29 Light Reflectance Value (LRV) requirement: <40 to meet non-reflective requirements	Design intent only - not for construction 	MAIN PROCESSING FACILITY
CLD-204	Metal conceal fixed cladding system with expressed vertical fold fixing every 2400mm	Archclad Colorbond (or similar and approved by architect)	Material: Non-Conbustable Pre-Finished metal Thickness: 0.8mm metal cladding and substrate/ wall build-up as required to meet acoustic performance requirements. Size: Nom. 300mm wide including folds and substructure 6000 high panels with expressed vertical fold fixings at 2400mm centres (or similar system to be approved by architect) Expressed fold fixings to be minimum 50 wide x 100 mm deep. Fixing: to steel frame Notes: Mock-up to be provided prior to final confirmation Performance Requirements: Acoustic requirements: minimum Rw 29 Light Reflectance Value (LRV) requirement: <40 to meet non-reflective requirements	Design intent only - not for construction 	MAIN PROCESSING FACILITY
Main Processing Facility & Ancillary Buildings - Concrete Wall Types					
EWS-201	Textured concrete panels	Class 3 concrete (or similar and approved by architect)	Material: Mould formed textured concrete Thickness: 250mm (total) Texture (mould formed): 20mm wide x 50 mm deep vertical texture at 750 mm centers. Colour: Pigmented to match *Dulux - Surfmist*		MAIN PROCESSING FACILITY & IBA BUILDINGS
EWS-202	Concrete wall with metal cladding	Class 3 concrete (or similar and approved by architect)	Material: Concrete Thickness: 300mm Notes: Refer to elevation to match metal façade cladding system type.		MAIN PROCESSING FACILITY
EWS-203	Concrete stack	Class 3 concrete (or similar and approved by architect)	Material: In-situ concrete Thickness: 300mm Colour: Pigmented to match Dulux - Surfmist		STACK
Main Processing Facility & Ancillary Buildings - Semi Transparent Façade Types					
EWS-303	Polycarbonate façade panels	Semi-transparent polycarbonate façade panels (or similar and approved by architect)	Material: Polycarbonate Thickness: 70mm Panel Size: 350m wide x 6000mm high Performance Requirements: Acoustic requirements: minimum Rw 33		MAIN PROCESSING FACILITY

CODE	DESCRIPTION	COLOURS/ FINISH	REMARKS	IMAGE	LOCATIONS
Administration & Visitor Centre - Façade Types					
CLD-205	Aluminium Perforated Panel	Dulux powdercoat (or similar and approved by architect)	Material: Perforated Non-Conbustable Pre-Finished Aluminum Panel by Locker Group (AERO 400™) achieving approximately 40% opening with a 20mm solid band with no perforations except for fixing holes to manfacturer's recommendations. (or similar and approved by architect) Colour: Distribution as per elevations Thickness :4mm Size: Flat Panel: Nom. 1220mm wide sheet with folded top edge around metal support fixings with minimal horizontal gap between panels. Height varies, refer to drawings for dimensions. Angled Panel: Nom. 300mm wide with minimal horizontal gap between panels. Height varies, refer to drawings for dimensions. Fixing:Rivet or Screw cladding to clip		ADMINISTRATION & VISITOR CENTRE
EWS-301	Curtain Wall Glazing	Double Glazed Vision Panel	Product: Capral Aluminium CW150 Curtain Wall System (or similar and approved by architect) Thickness: 150x75 frame with 24 mm double glazing (vision panel) Size: Nom.1500mm wide. Height varies, refer to drawings for dimensions. Notes: Spandrel section between floors as per EWS-302 Performance Requirements: Curtain wall build up to achieve U-value of <2.3		ADMINISTRATION & VISITOR CENTRE
EWS-302	Curtain Wall Solid Panel	Spandrel Panel in colour Dulux Paper Bark in matte (or similar and approved by architect)	Product: Capral Aluminium CW150 Curtain Wall System (or similar and approved by architect) Thickness: 150x75 frame with 24mm spandrel panel Size: Nom.1500mm wide x 4000mm height Performance Requirements: Curtain wall build up to achieve U-value of <2.3		ADMINISTRATION & VISITOR CENTRE
Roof Material					
RFS-101	Metal standing seam roof panels	Kingspan KingZip Standing Seam Roofing System - Aluminium standing seam system in metallic Silver (or similar and approved by architect)	Material: Non-Conbustable Pre-Finished metal Thickness: 0.8mm before insulation Size: Nom. 600mm wide x varied depth (or similar system to be approved by architect) Fixing: to steel frame Notes: Mock-up to be provided prior to final confirmation Minimum roof pitch to be 1.5° Performance Requirements: Insulation to be provide in Administration Office and Visitor Centre. For EfW and IBA buildings: roof system to incorporate supplementary acoustic insulation to achieve minimum Rw 32. To be confirmed and further developed in the next stage. Allow for thermal insulation: U-Values of up to 0.10 W/m2K		ALL BUILDINGS

NOTE:
Fire and acoustic requirements to be further developed with engineers in the next stage

NOT FOR CONSTRUCTION

Issue	Date	By	Chkd	Appd
R03	19/12/2025	SC	CH	MB
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R01	18/08/2025	SC	CH	MB

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification
Name: .....
Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1

Discipline: Architecture

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Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title: SCHEDULE ARCHITECTURAL MATERIAL

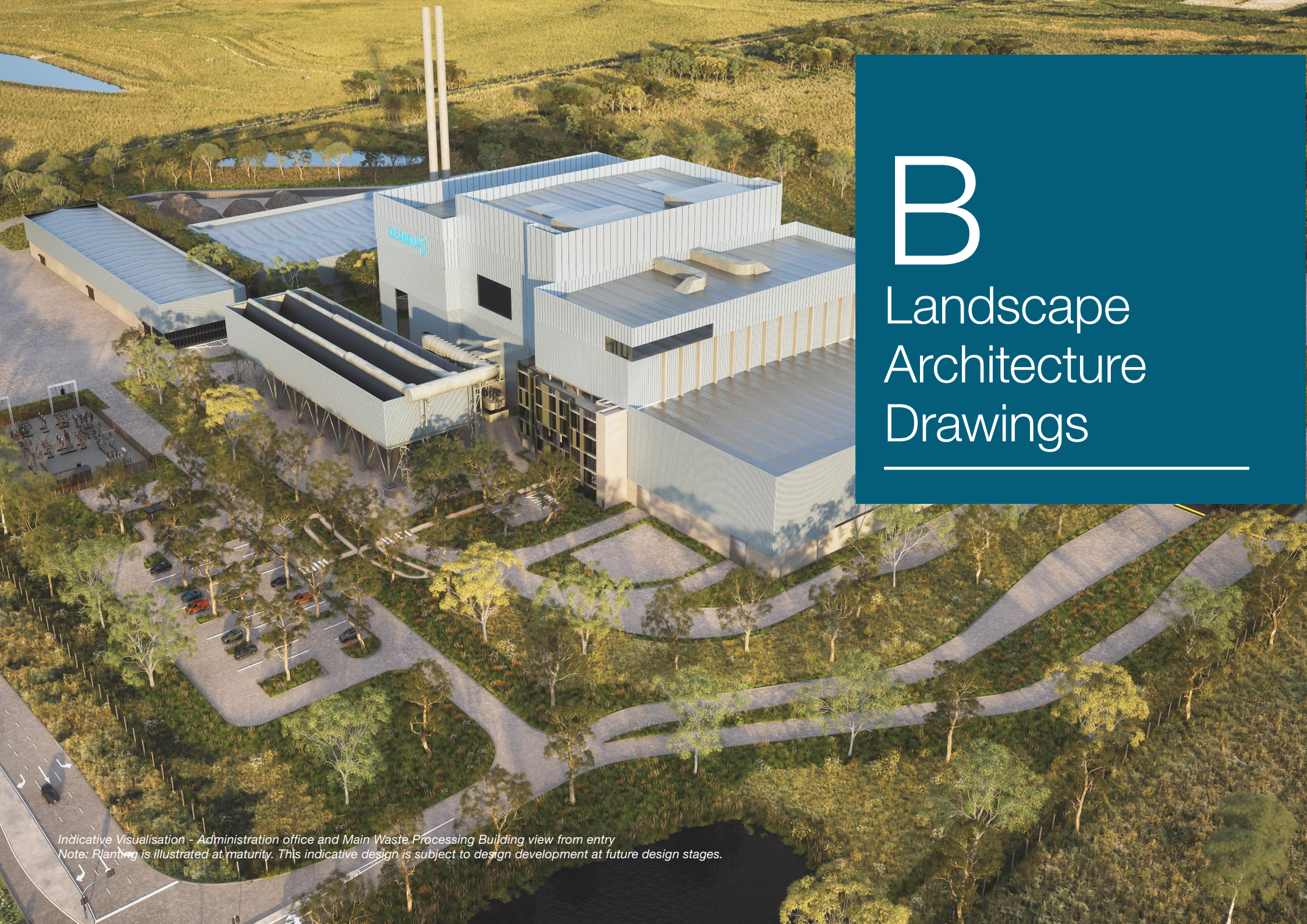
Drawing Status: S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-ARAR-SCH-000011	R02

19/12/2025 1:22:21 PM

Do not scale

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B
Landscape Architecture Drawings

Indicative Visualisation - Administration office and Main Waste Processing Building view from entry
Note: Planting is illustrated at maturity. This indicative design is subject to design development at future design stages.



LEGEND

- SITE BOUNDARY
- EXISTING AUSTRALIAN RAIL TRACK CORPORATION (ARTC) INLAND RAIL CORRIDOR
- DRAINAGE FEATURE
- BOUNDARY FENCE & GATE
- SAFETY FENCE
- SECURITY FENCE
- IBA FENCE & GATE
- EXISTING/RETAINED TREES
- PROPOSED SCREENING USING TREES AND SHRUBS
- HYDROSEED - NATIVE GRASS MIX
- ACCENT PLANT MIX
- EARLY PLANTING - TREES
- BIORETENTION BASIN
- EXISTING WATERBODY - DAM
- SHRUB UNDERSTOREY

NOTES:

1. REFER PLANTING SCHEDULE FOR SPECIES

1 SITE - OVERALL - PROPOSED - KEY PLAN

1 : 3000



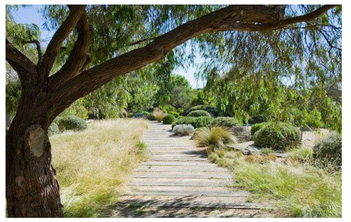
ACCENT PLANTING AT THE VISITOR CENTRE AND FACILITY ADMINISTRATION AREA



ACCENT PLANTING AT THE VISITOR CENTRE AND FACILITY ADMINISTRATION AREA



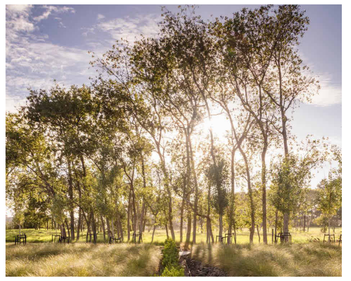
CARPARK WITH SHADE TREES



MATERIALS AND GEOMETRY TO COMPLEMENT ARCHITECTURE



SCREENING TREE LINE ON EMBANKMENT/SLOPE



OPEN NATIVE GRASSLANDS WITH TREES



VEGETATED ATTENUATION BASIN WITH WATER BODY

2 LANDSCAPE PRECEDENT IMAGES

1 : 3000

NOT FOR CONSTRUCTION

N

0 100 m 200m

A1 1:3000 | A3 1:6000

Do not scale

Issue	Date	By	Chkd	Appd
R03	19/12/2025	PM	JT	CM
R02	19/09/2025	PM	JT	CM
R01	18/08/2025	PM	JT	CM

Client: CLEANAWAY — Making a sustainable future possible

Architectural Certification

Name: .....

Signature: ..... Date: .....

Job Title: Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1: 1 : 1500

Discipline: Landscape

ARUP
Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title: GENERAL ARRANGEMENT LANDSCAPE SITE PLAN PROPOSED

Drawing Status: S0 - FOR INFORMATION ONLY

Job No: **293683-00** | Drawing No: **BERC-ARUP-BNE-LULX-DRG-001203** | Issue: **R02**

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LEGEND

- SITE BOUNDARY
- EXISTING AUSTRALIAN RAIL TRACK CORPORATION (ARTC) INLAND RAIL CORRIDOR
- DRAINAGE FEATURE
- BOUNDARY FENCE & GATE
- SAFETY FENCE
- SECURITY FENCE
- IBA FENCE & GATE
- MAJOR CONTOUR LINE 1M ELEVATION
- EXISTING/RETAINED TREES
- PROPOSED SCREENING USING TREES AND SHRUBS
- HYDROSEED - NATIVE GRASS MIX
- ACCENT PLANT MIX
- EARLY PLANTING - TREES
- BIORETENTION BASIN
- EXISTING WATERBODY - DAM
- SHRUB UNDERSTOREY

NOTES:

1. REFER PLANTING SCHEDULE FOR SPECIES

NOT FOR CONSTRUCTION

N

0 50 m 100m

A1 1:1500 | A3 1:3000

Do not scale

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Drawing Title: GENERAL ARRANGEMENT LANDSCAPE PLAN PROPOSED

Drawing Status: S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-LULX-DRG-001204	R02

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Site area

Retained existing vegetation.

Screening

Trees, shrubs and grasses.

Shrubs and native grass plant mix that reflects the landscape character.

Facility landscape treatment

Trees, shrubs and grasses.

Native grass plant mix that reflects the landscape character.

Main waste processing building

ACC & SWITCHYARD

Trees, shrubs planting.

Accent plant mix predominantly native grasses to verger's.

Screening

Beaudesert Boonah Road

NOT FOR CONSTRUCTION

0 25m 50m

A1 1:1000 | A3 1:2000

Do not scale

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R01	18/08/2025	PM	JT	CM

Client

CLEANAWAY
Making a sustainable future possible

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Name: .....

Signature: ..... Date: .....

Job Title

Bromelton Energy and Resource Centre
Lot 1 RP45234
Beaudesert-Boonah Road
Bromelton, Queensland

Scale at A1 1 : 1000

Discipline Landscape

ARUP

Turrbal and Jagera/Yuggera Country
Level 26, 123 Albert Street
Brisbane City Qld 4000
Australia

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ABN 18 000 966 165

Drawing Title

GENERAL ARRANGEMENT
SECTION
NORTH SOUTH

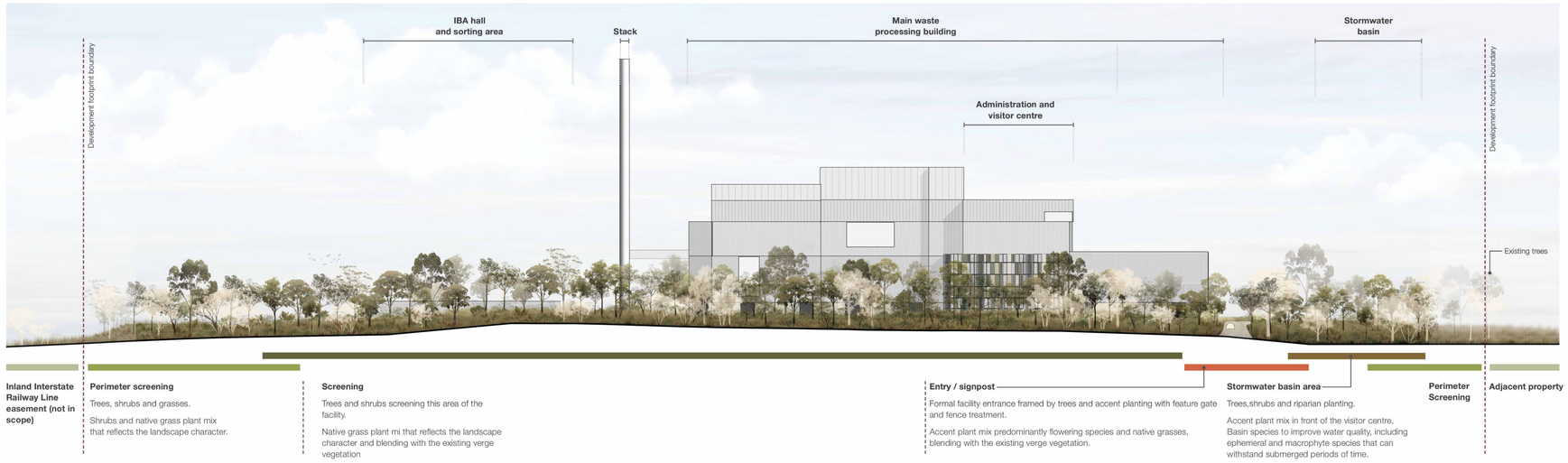
Drawing Status

S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-LULX-DRG-003100	R02

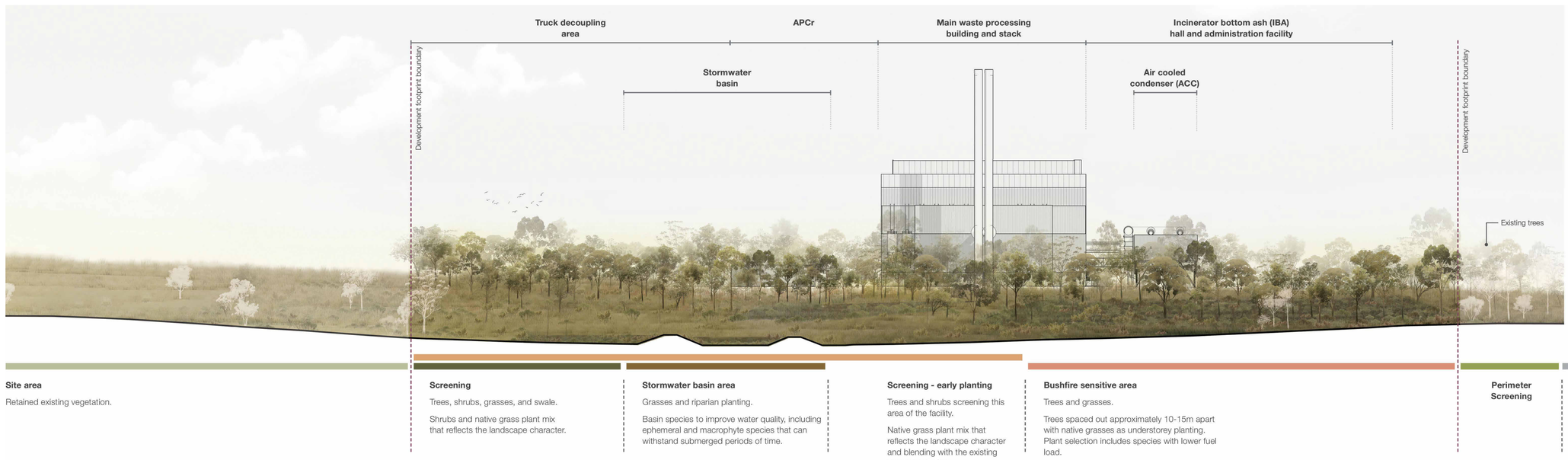
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1 LANDSCAPE - ELEVATION - NORTH

1 : 1000



2 LANDSCAPE - ELEVATION - EAST

1 : 1000

NOT FOR CONSTRUCTION

0 25m 50m

A1 1:1000 | A3 1:2000

Do not scale

Issue	Date	By	Chkd	Appd
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Bromelton, Queensland

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Discipline: Landscape

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Turrbal and Jagera/Yuggera Country
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Australia

CONSULT AUSTRALIA
Member Firm
Arup Pty Ltd
ABN 18 000 966 165

Drawing Title: GENERAL ARRANGEMENT ELEVATIONS NORTH AND EAST

Drawing Status: S0 - FOR INFORMATION ONLY

Job No: 293683-00 | Drawing No: BERC-ARUP-BNE-LULX-DRG-003200 | Issue: R02

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293683 - Bromelton Energy and Resource Centre

TREATMENT TYPE	CODE	BOTANIC NAME	SIZE	COMMON NAME	APPROX. MATURE SIZE (h x w) m	MIX RATIO	PROPOSED POT SIZE	QUANTITY PER m²	QUANTITY
		TREES							
Screening, amenity & shade	ACA imp	*Acacia implexa*	*Medium*	Lightwood	15 x 10	N/A	200L / Tubestock	As shown on plan	
	ACA con	*Acacia concurrens* **	*Medium*	Black wattle	10 x 4	N/A	200L / Tubestock	As shown on plan	
	ACA dis	*Acacia disparrima subsp. Disparrima*	*Small*	Hickory wattle	9 x 5	N/A	200L / Tubestock	As shown on plan	
	ACA sal	*Acacia salicina*	*Medium*	Sally wattle	10 x 5	N/A	200L / Tubestock	As shown on plan	
	ALP exc	*Alphitonia excelsa*	*Large*	Red ash	21 x 15	N/A	200L / Tubestock	As shown on plan	
	ANG sub	*Angophora subvelutina*	*Large*	Broad-leaver apple	25 x 15	N/A	200L / Tubestock	As shown on plan	
	ALL lit	*Allocasuarina littoralis*	*Medium*	Black she-oak	7 x 3	N/A	200L / Tubestock	As shown on plan	
	COR cit	*Corymbia citriodora subsp. Variegata*	*Large*	Spotted gum	40 x 20	N/A	200L / Tubestock	As shown on plan	
	COR int	*Corymbia intermedia*	*Large*	Pink bloodwood	30 x 20	N/A	200L / Tubestock	As shown on plan	
	COR tes	*Corymbia tessellaris*	*Large*	Ghost gum tree	30 x 16	N/A	200L / Tubestock	As shown on plan	
	DEN pit	*Denhamia pittosporoides* **	*Small*	Orange boxwood	6 x 3	N/A	200L / Tubestock	As shown on plan	
	EUC cre	*Eucalyptus crebra* **	*Large*	Narrow-leaved Ironbark	40 x 20	N/A	200L / Tubestock	As shown on plan	
	EUC mol	*Eucalyptus moluccana*	*Large*	Gum-topped box	40 x 20	N/A	200L / Tubestock	As shown on plan	
	EUC ter	*Eucalyptus tereticornis*	*Large*	Queensland blue gum	50 x 20				
		SHRUBS AND ACCENTS							
Shrubs & accents	BUR spi	*Bursaria spinosa* **		Sweet bursaria	2 x 3	N/A	200mm	As shown on plan	
	CAS ova	*Carissa ovata*		Currant bush	2 x 2	N/A	200mm	As shown on plan	
	DOD vis	*Dodonaea viscosa*		Broad-leaf hop bush	3 x 2	N/A	200mm	As shown on plan	
	DOD cun	*Dodonaea viscosa subsp. cuneata*		Wedge-leaf hop bush	3 x 1.5	N/A	200mm	As shown on plan	
	LEP pol	*Leptospermum polygalifolium*		Tantoon tea-tree	2 x 2	N/A	200mm	As shown on plan	
	JAC sco	*Jacksonia scoparia*		Dogwood	5 x 3	N/A	200mm	As shown on plan	
	PIT rev	*Pittosporum revolutum* **		Hairy laurel	3 x 2	N/A	200mm	As shown on plan	
		GROUNDCOVERS, GRASSES AND RUSHES							
General planting	BOT bla	*Bothriochloa bladhii subsp. glabra*		Forest bluegrass	1.5 x 0.8	N/A	150mm	6 PER m²	
	CAP spi	*Capillipedium spicigerum*		Scented Top grass	1.5 x 0.9	N/A	150mm	6 PER m²	
	CHL div	*Chloris divaricata*		Slender chloris	0.9 x 0.7	N/A	150mm	6 PER m²	
	DIC ser	*Dichanthium sericeum*		Clustered everlasting	1.2 x 0.9	N/A	150mm	6 PER m²	
	DIA rev	*Crinum flaccidum*		Darling lily	0.8 x 0.8	N/A	150mm	6 PER m²	
	HET con	*Heteropogon contortus*		Black speargrass	1.5 x 0.75	N/A	150mm	6 PER m²	
	IMP cyl	*Imperata cylindrica*		Blady grass	0.6 x 0.6	N/A	150mm	6 PER m²	
	JUN usi	*Juncus usitatus*		Common Rush	1 x 1.5	N/A	150mm	6 PER m²	
	LES jun	*Lespedeza juncea*		Perennial lespedeza	1.2 x 0.5	N/A	150mm	6 PER m²	
	MUR gra	*Murdannia graminea*		Fringe lily	0.8 x 0.8	N/A	150mm	6 PER m²	
	PAN dec	*Panicum decompositum*		Native millet	0.8 x 0.8	N/A	150mm	6 PER m²	
	PAS scr	*Paspalum scrobiculatum*		Ditch Millet	0.7 x 1	N/A	150mm	6 PER m²	
	SAR lei	*Sarga leiocladum*		Native sorghum	0.5 x 0.6	N/A	150mm	6 PER m²	
	SPO cre	*Sporobolus creber*		Slender rat's tail	1.4 x 0.7	N/A	150mm	6 PER m²	
	THE tri	*Themeda triandra*		Kangaroo Grass	0.5 x 0.6	N/A	150mm	6 PER m²	
	ZOR dyc	*Zornia dyctiocarpa*		Zornia	spreading				
		WETLAND							
Swales & Bioretention Basins	BAU art	*Baumea articulata (DM)*		Jointed twig-rush	2.5 x 0.6	N/A	50mm	8 PER m²	
	BAU rub	*Baumea rubiginosa (EB)*		Soft twig-rush	2 x 4	N/A	50mm	5 PER m²	
	BOL flu	*Bolboschoenus fluviatalis (DM)*		Marsh club-rush	1.2 x 1	N/A	50mm	8 PER m²	
	CAR app	*Carex appressa (EB)*		Tall sedge	1 x 1.5	N/A	50mm	5 PER m²	
	CAR fas	*Carex fascicularis (SM)*		Tassel sedge	1 x 1	N/A	50mm	8 PER m²	
	JUN usi	*Juncus usitatus (EB)*		Common Rush	1 x 1.5	N/A	50mm	5 PER m²	
	LOM lon	*Lomandra longifolia (EB)*		Mat Rush	1 x 0.6	N/A	50mm	5 PER m²	
	GAH sie	*Gahnia sieberiana (EB)*		Giant Swords Edge	1 x 1	N/A	50mm	5 PER m²	
	SCH muc	*Schoenoplectus mucronatus (SM)*		Bog bulrush	1 x 1	N/A	50mm	8 PER m²	
		SEED MIX (BONDED FIBRE MATRIX)							
Revegetation	BAU art	*Baumea articulata (DM)*		Jointed twig-rush	2.5 x 0.6	N/A	N/A	N/A	
	BAU rub	*Baumea rubiginosa (EB)*		Soft twig-rush	2 x 4	N/A	N/A	N/A	
	BOL flu	*Bolboschoenus fluviatalis (DM)*		Marsh club-rush	1.2 x 1	N/A	N/A	N/A	
	CAR app	*Carex appressa (EB)*		Tall sedge	1 x 1.5	N/A	N/A	N/A	
	CAR fas	*Carex fascicularis (SM)*		Tassel sedge	1 x 1	N/A	N/A	N/A	
	JUN usi	*Juncus usitatus*		Common Rush	1 x 1.5	N/A	N/A	N/A	
	LOM lon	*Lomandra longifolia (EB)*		Mat Rush	1 x 0.6	N/A	N/A	N/A	
	GAH sie	*Gahnia sieberiana (EB)*		Giant Swords Edge	1 x 1	N/A	N/A	N/A	
	THE tri	*Themeda triandra*		Kangaroo Grass	0.5 x 0.6	N/A	N/A	N/A	
		LOWER FUEL LOAD SPECIES							
Bushfire buffer	ACA con	*Acacia concurrens* **		Black wattle	10 x 4	N/A	200L / Tubestock	As shown on plan	
	BUR spi	*Bursaria spinosa* **		Sweet bursaria	2 x 3	N/A	200mm	As shown on plan	
	DEN pit	*Denhamia pittosporoides* **		Orange boxwood	6 x 3	N/A	200L / Tubestock	As shown on plan	
	EUC cre	*Eucalyptus crebra* **		Narrow-leaved Ironbark	40 x 20	N/A	200L / Tubestock	As shown on plan	
	PIT rev	*Pittosporum revolutum* **		Hairy laurel	3 x 2	N/A	200mm	As shown on plan	

* available from specialist nursery
** Indicates lower fuel load for bush fires

Riparian/wetland - plant zone depth range

TE	Terrestrial > +0.2m
EB	Ephemeral batter NWL to +0.2m
SM	Shallow marsh NWL to -0.2m
DM	Deep marsh -0.2m to -0.4m
SU	Submerged marsh -0.4m to -0.7m
NWL	Normal water line

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Drawing Title: SCHEDULE LANDSCAPE PLANTING

Drawing Status: S0 - FOR INFORMATION ONLY

Job No	Drawing No	Issue
293683-00	BERC-ARUP-BNE-LULX-SCH-000012	R02

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