

ATTACHMENTS

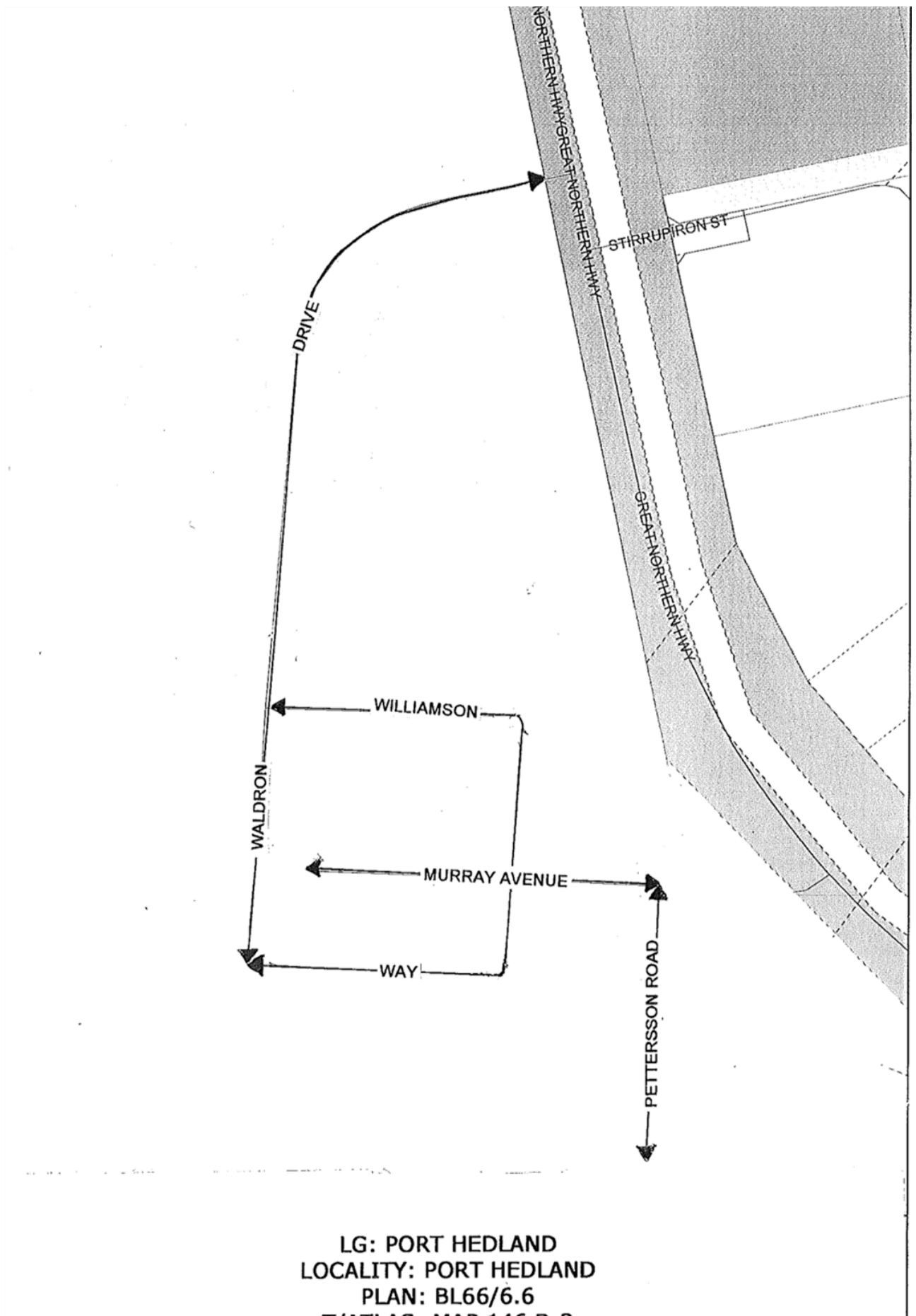
Under Separate Cover

Part 2

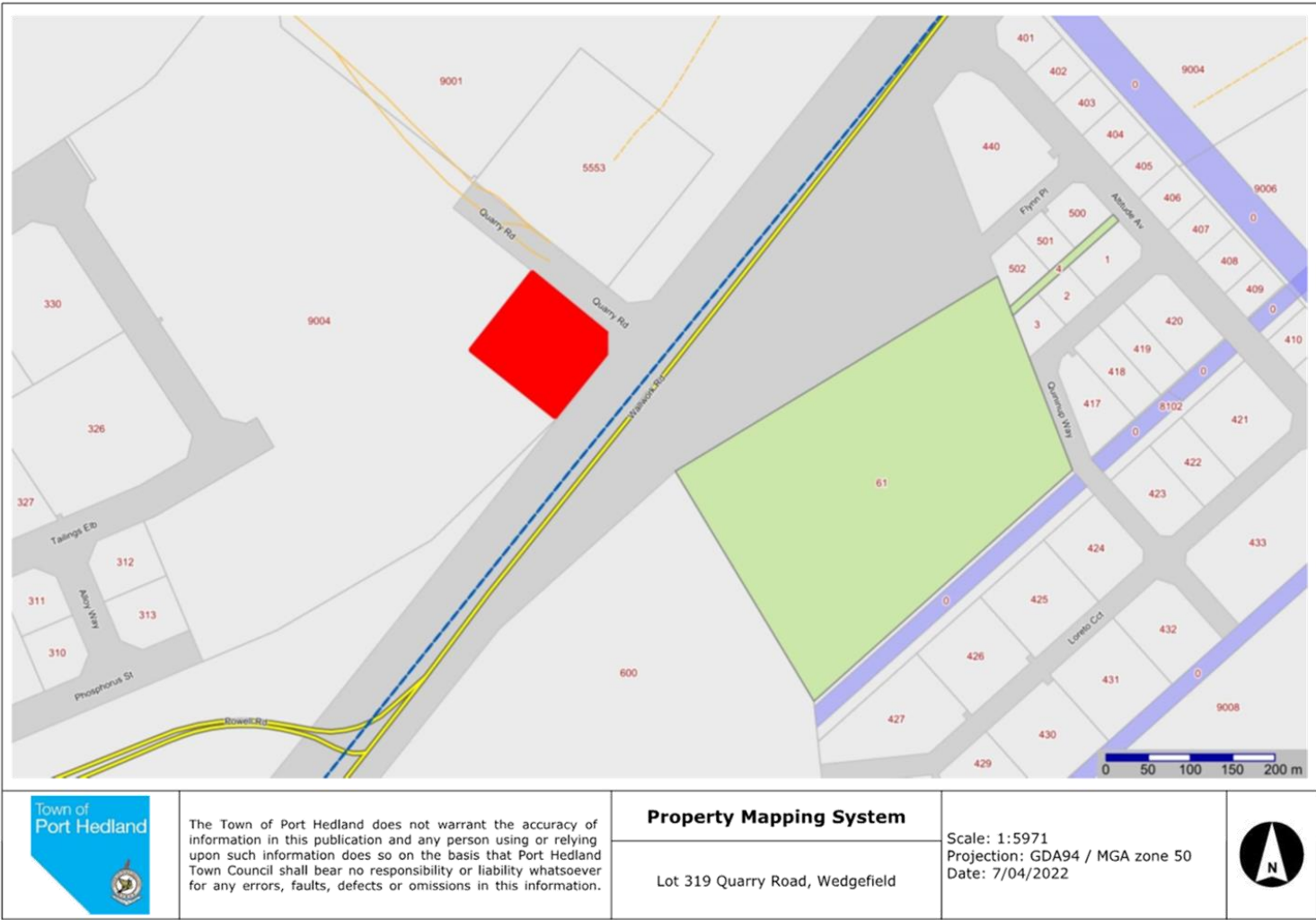
Ordinary Council Meeting
Wednesday, 27 April 2022

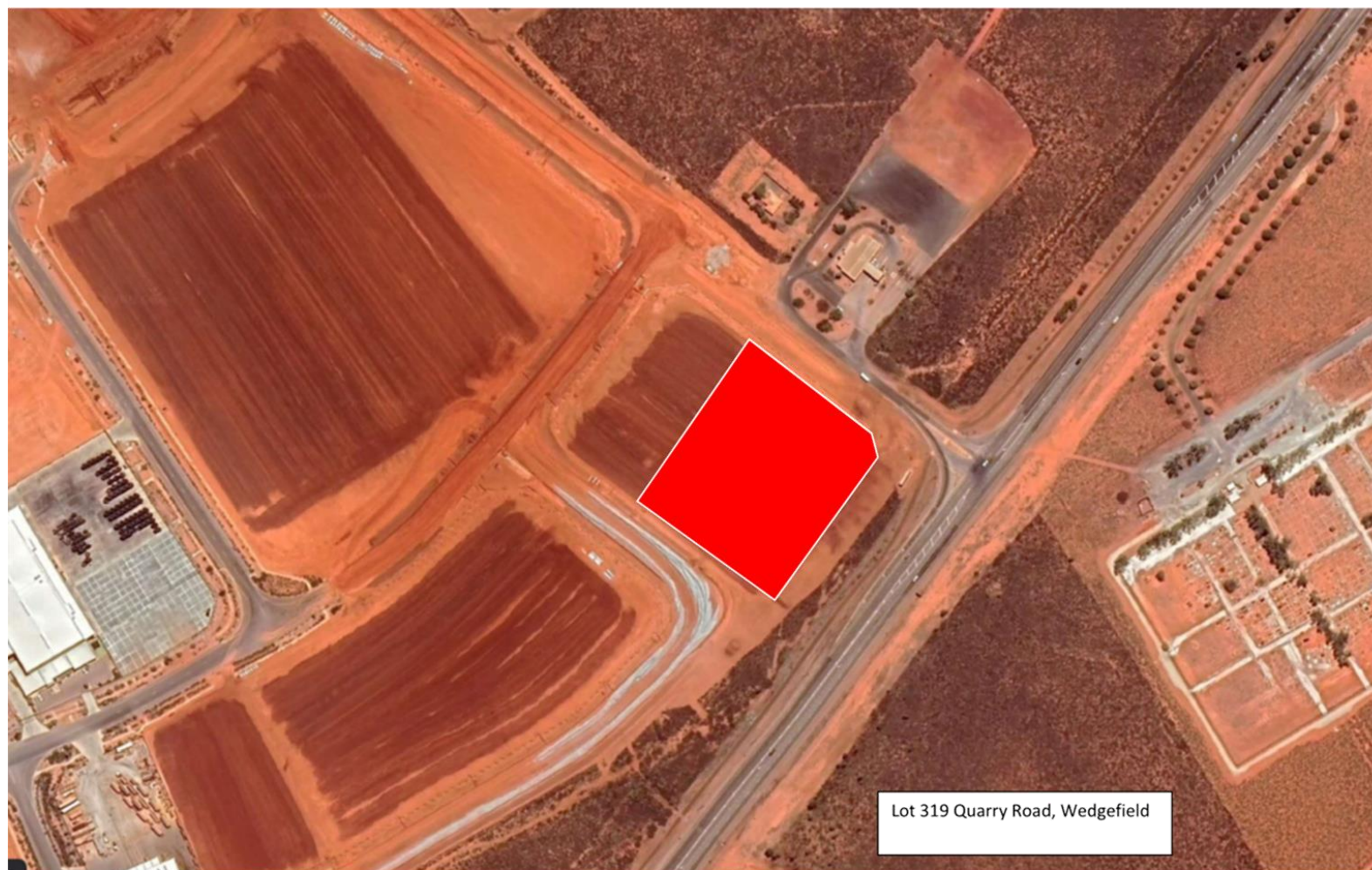
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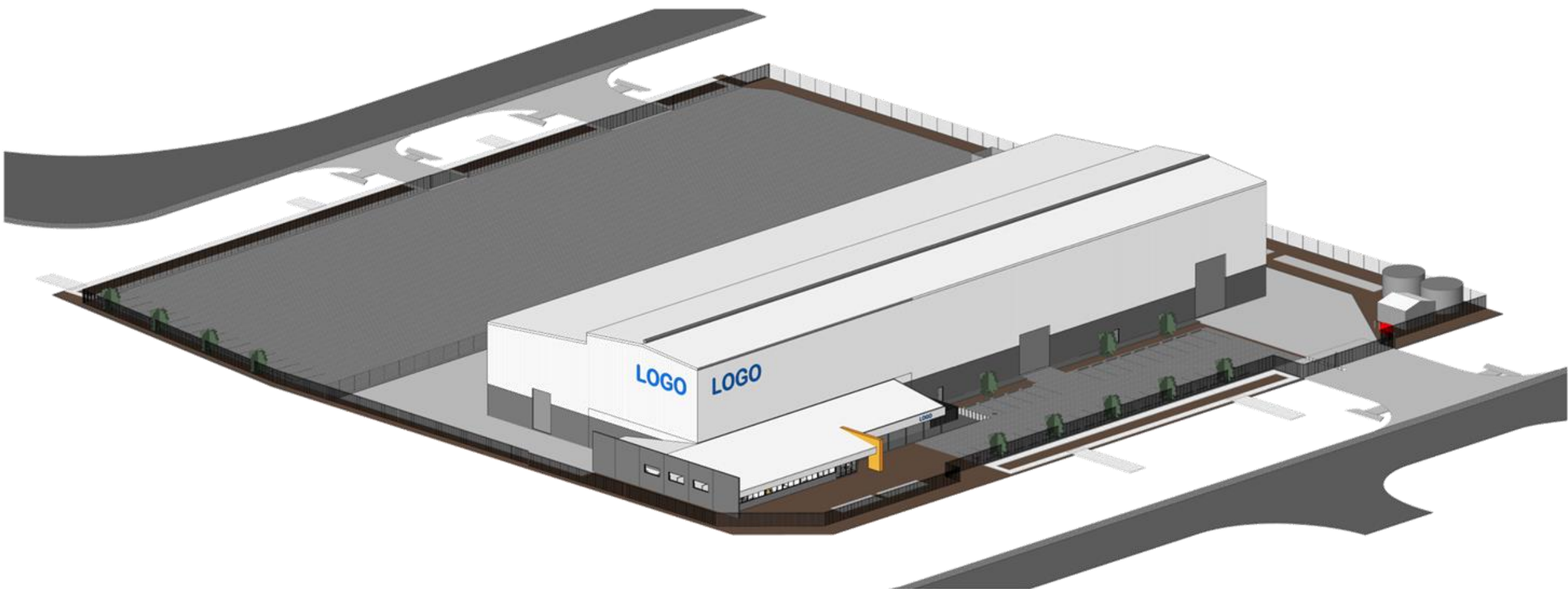




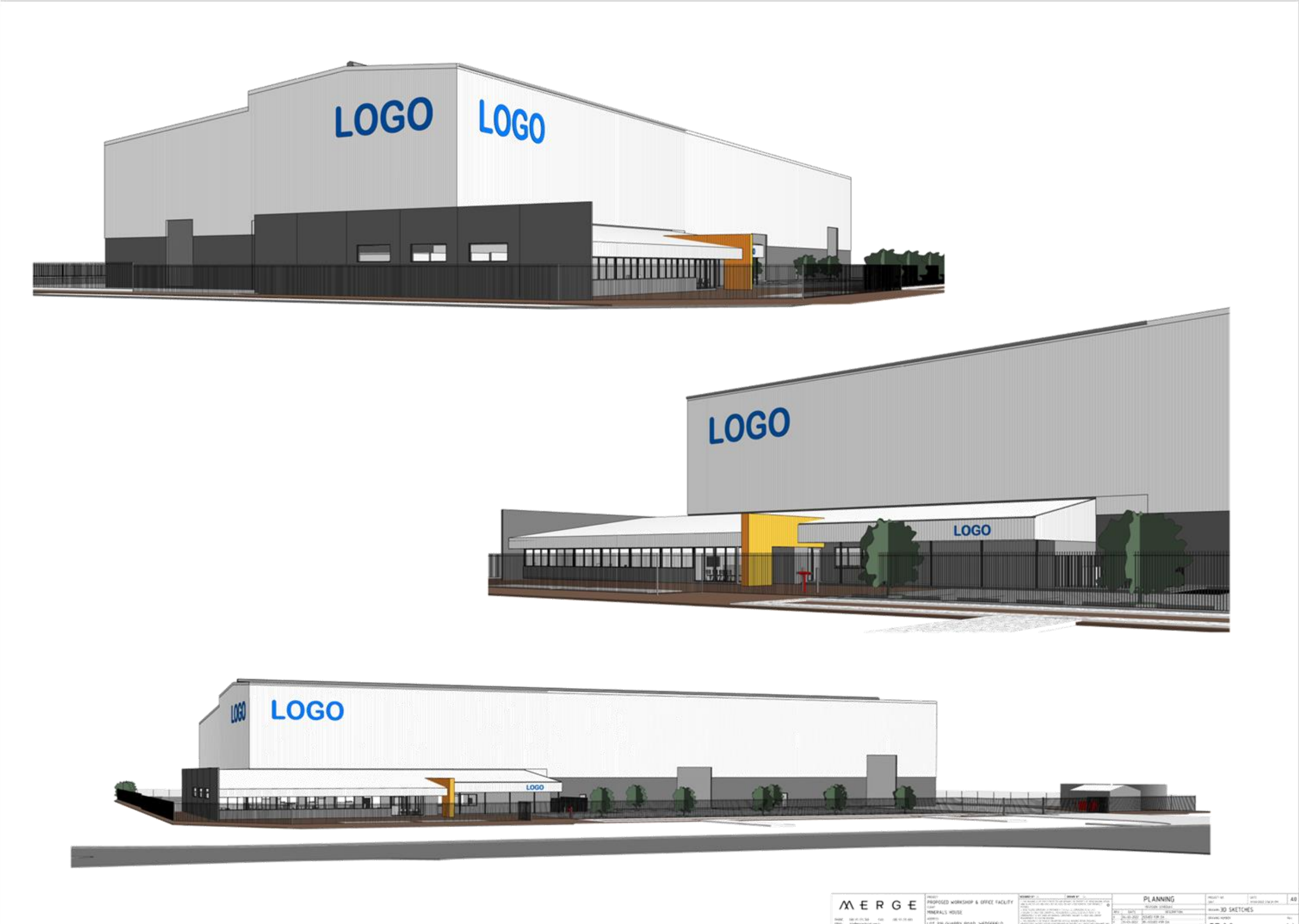




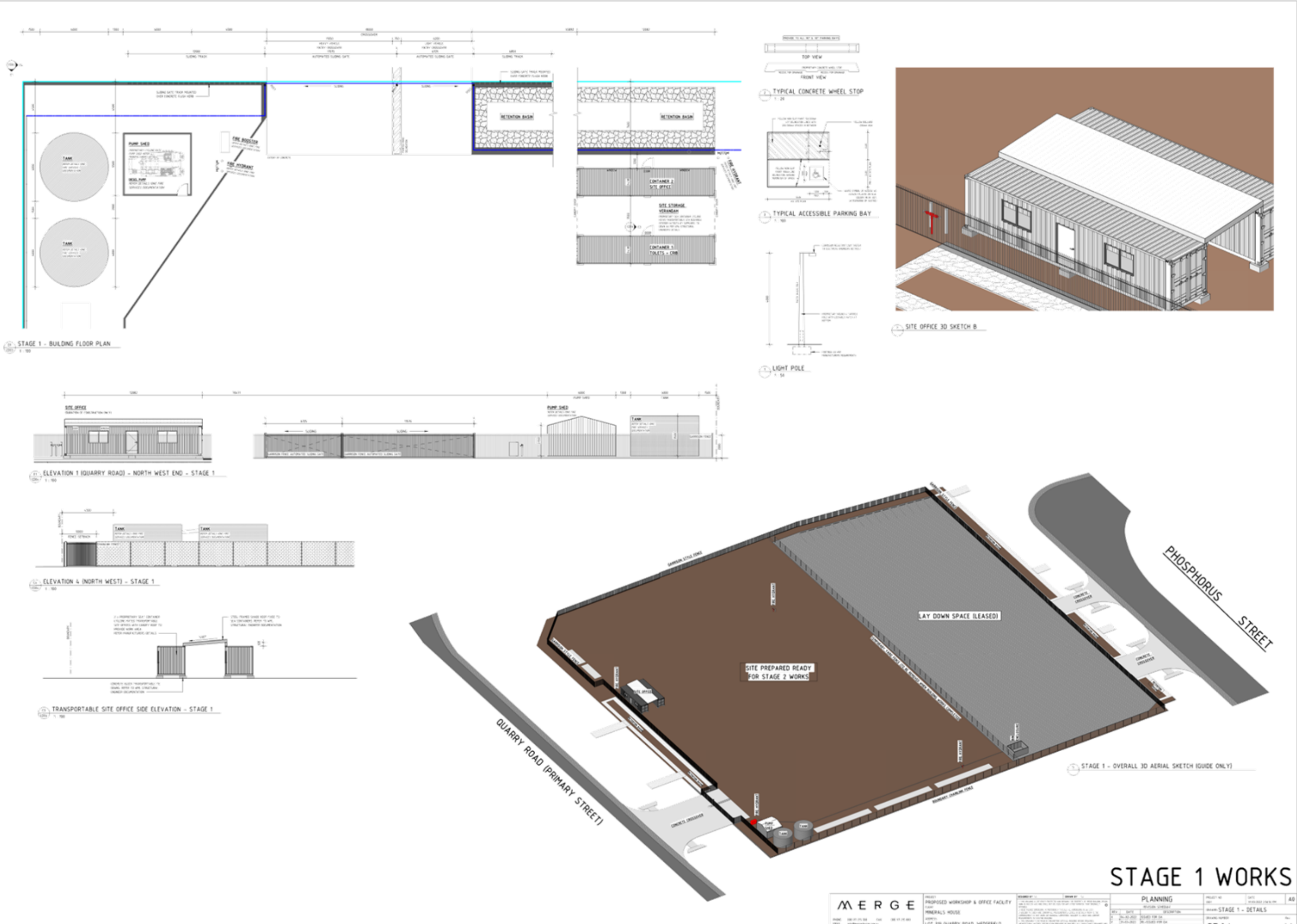
PROPOSED MINERALS HOUSE FACILITY
LOT 319 QUARRY ROAD,
WEDGEFIELD INDUSTRIAL ESTATE,
PORT HEDLAND

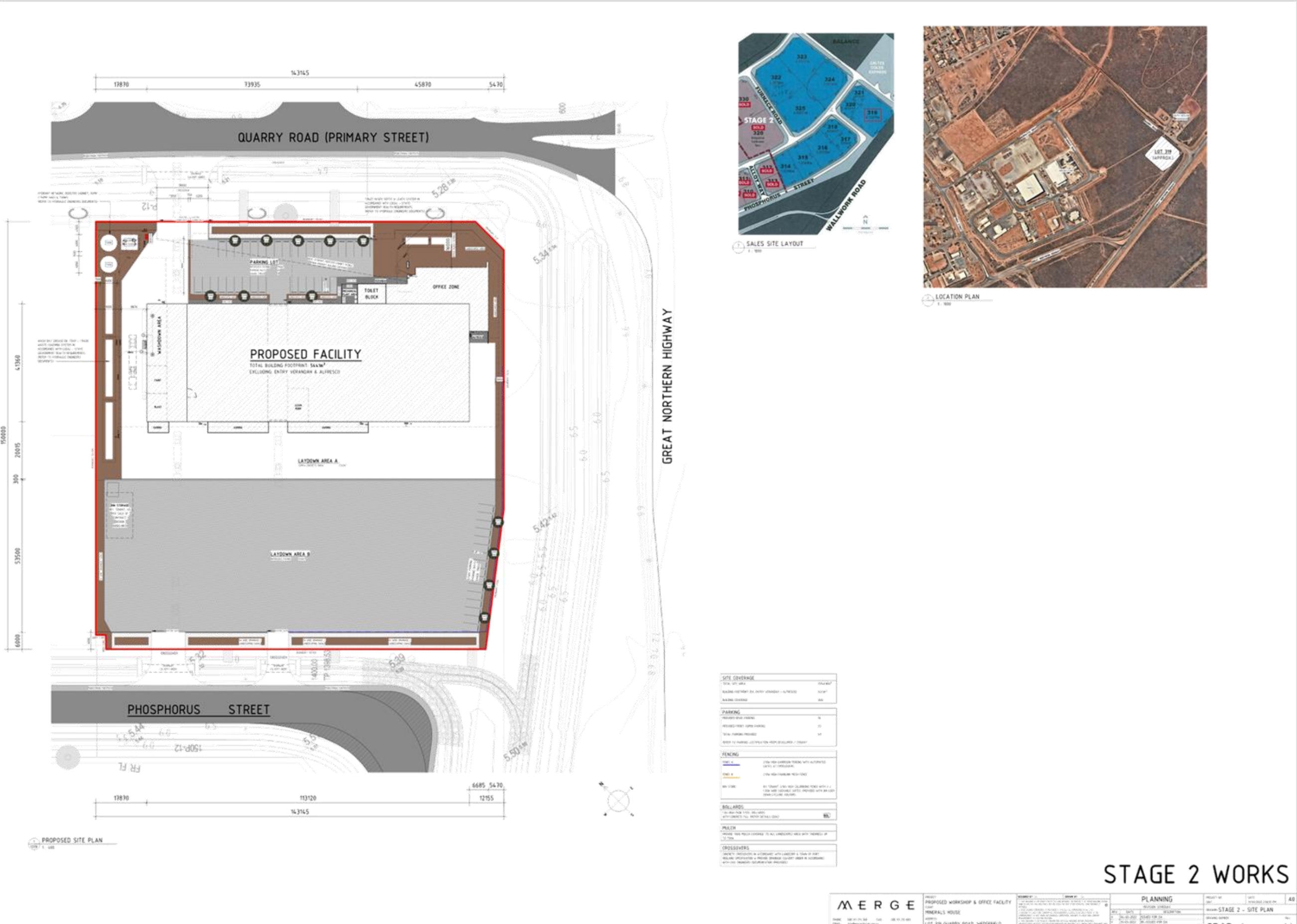


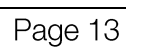
MERGE	PROJECT PROPOSED WORKSHOP & OFFICE FACILITY MINERALS HOUSE	ADDRESS LOT 319 QUARRY ROAD, WEDGEFIELD	SUBMITTER MURPHY & CO PTY LTD	DATE 24-03-2022	PLANNING REVISION 000001	PROJECT NO 2021	DATE PROPOSED 2021-04-28	40

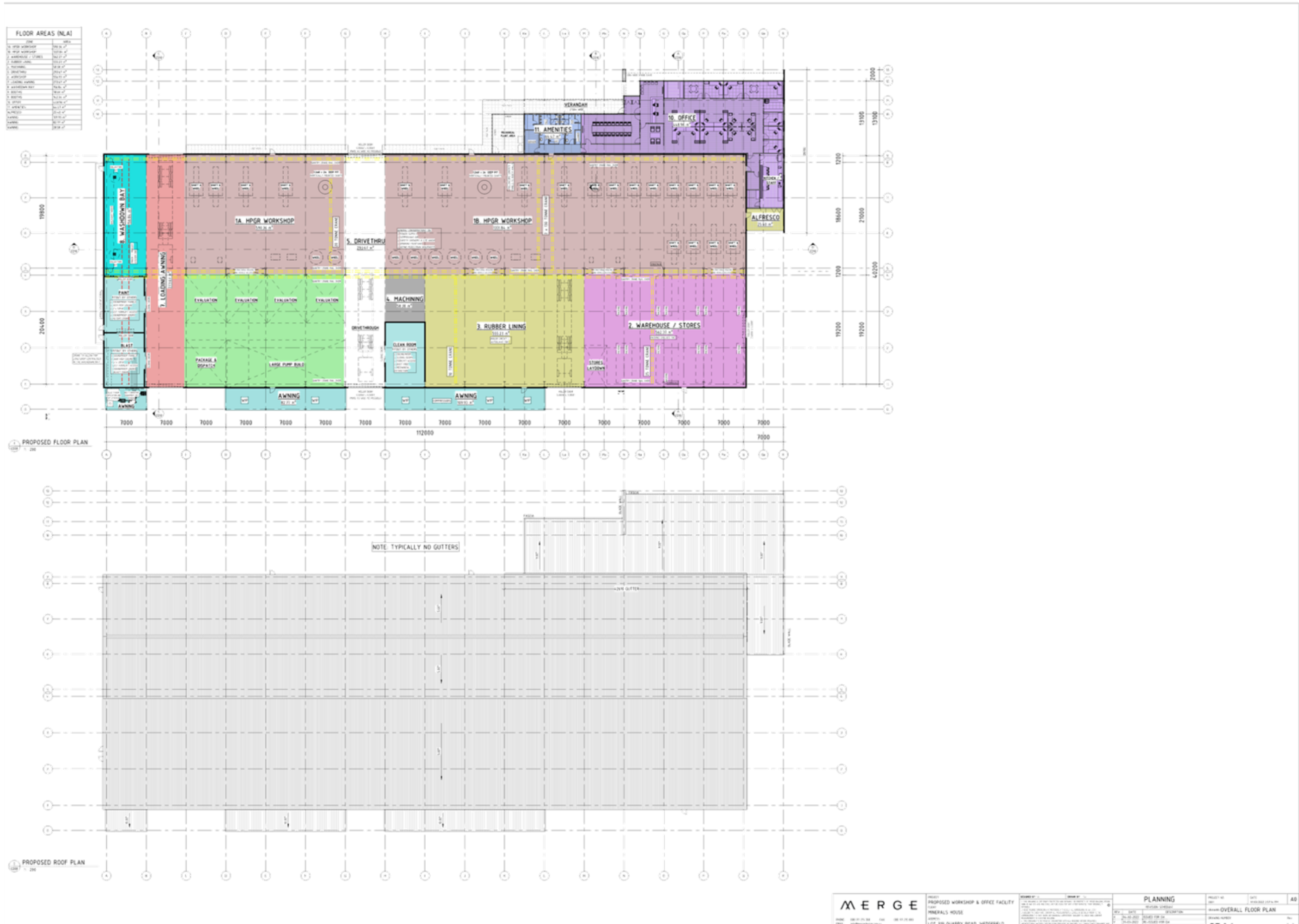


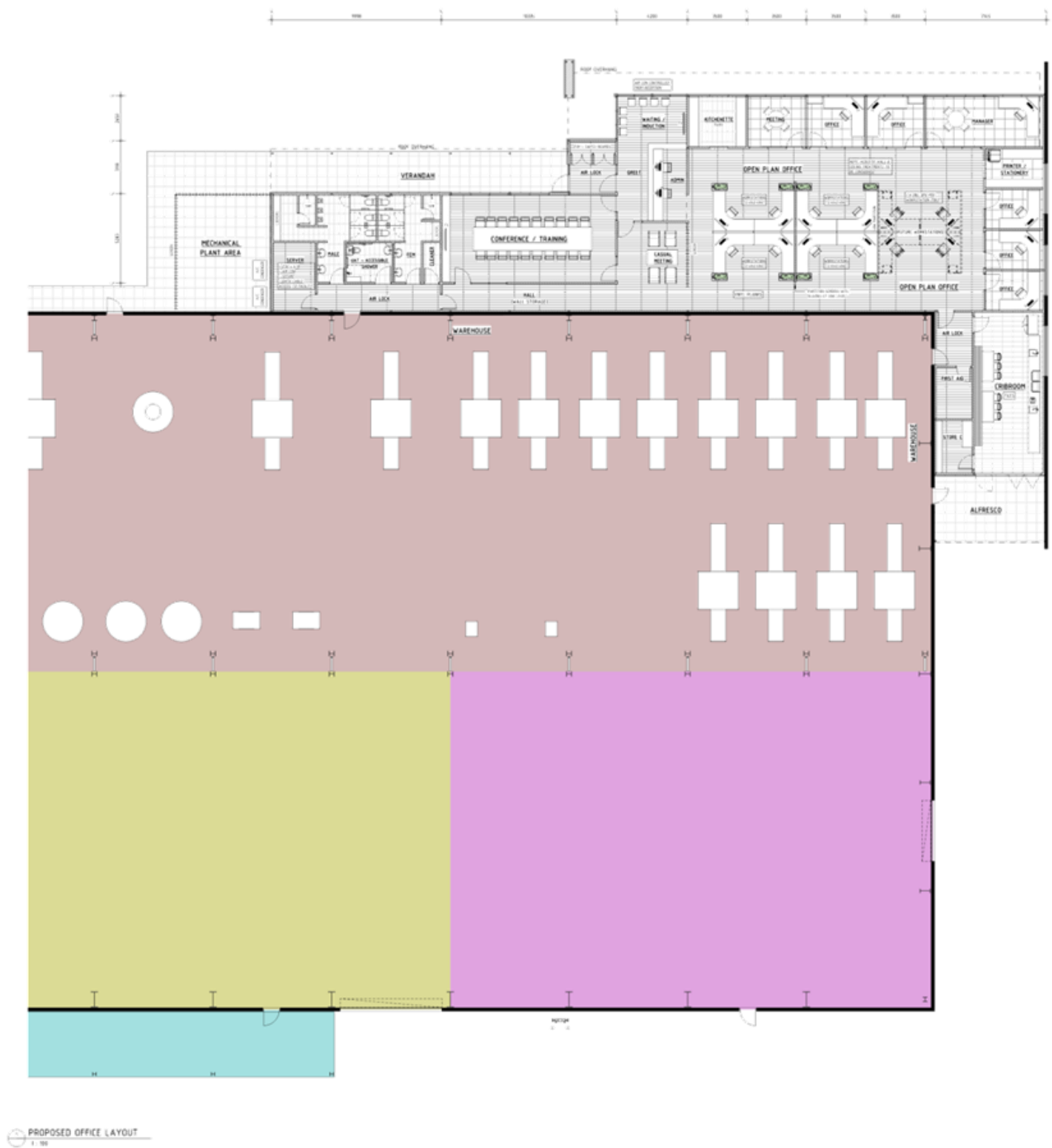






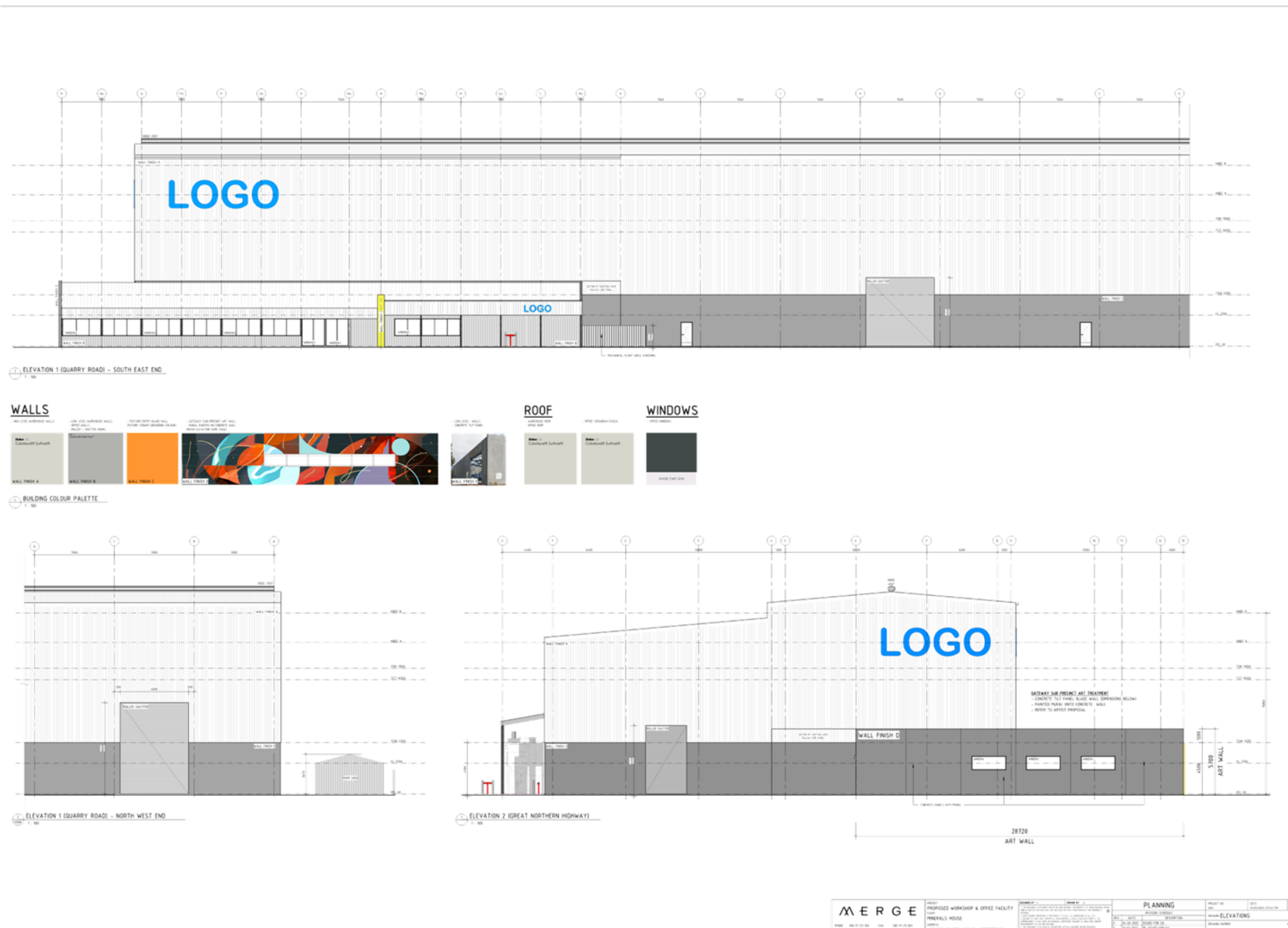


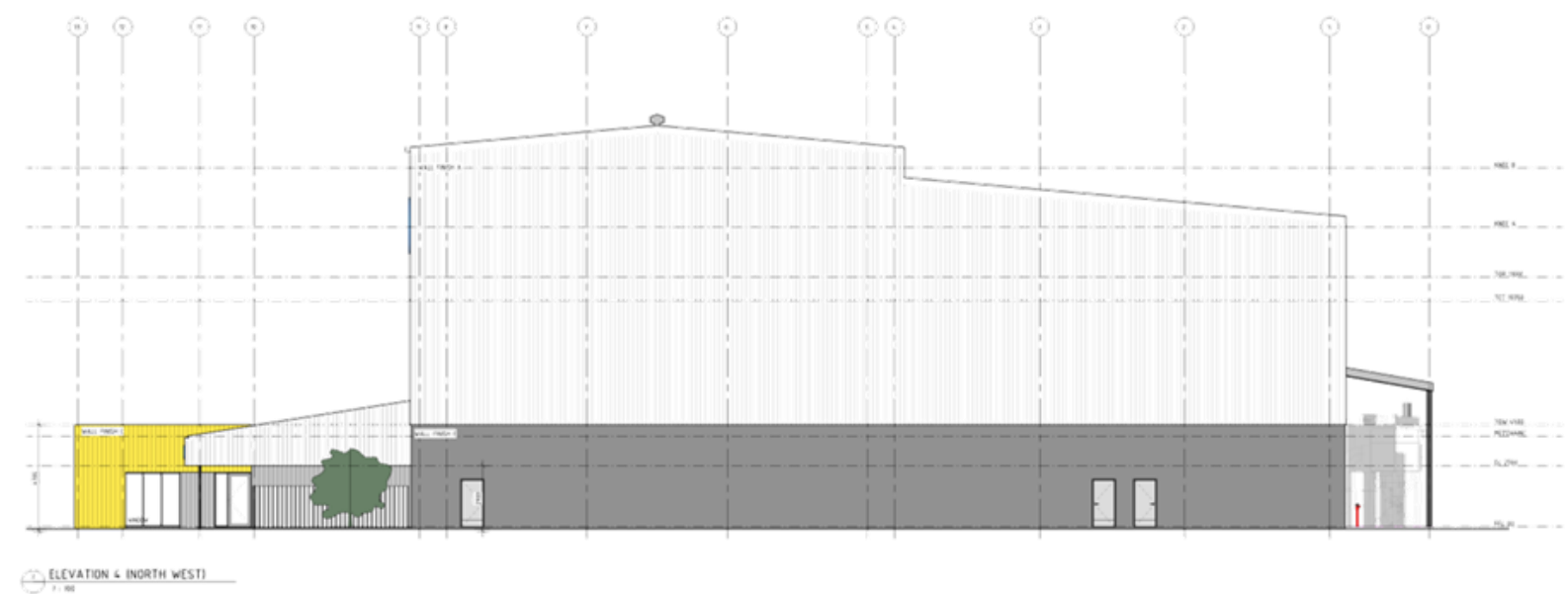
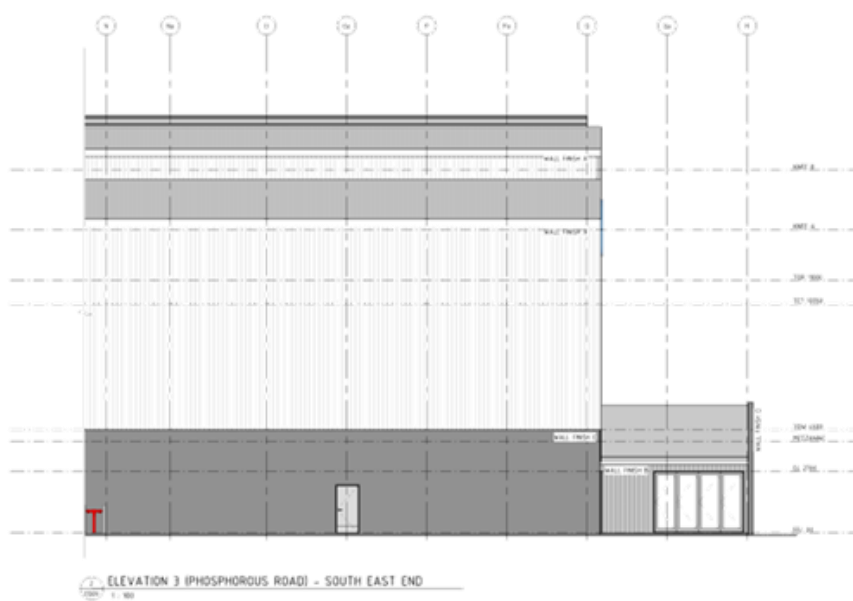
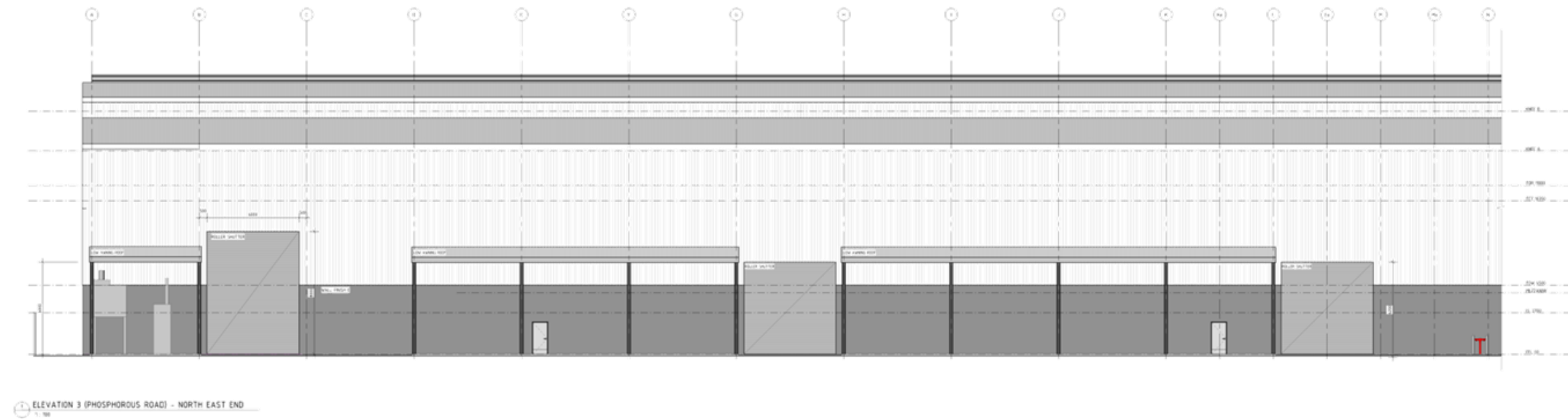


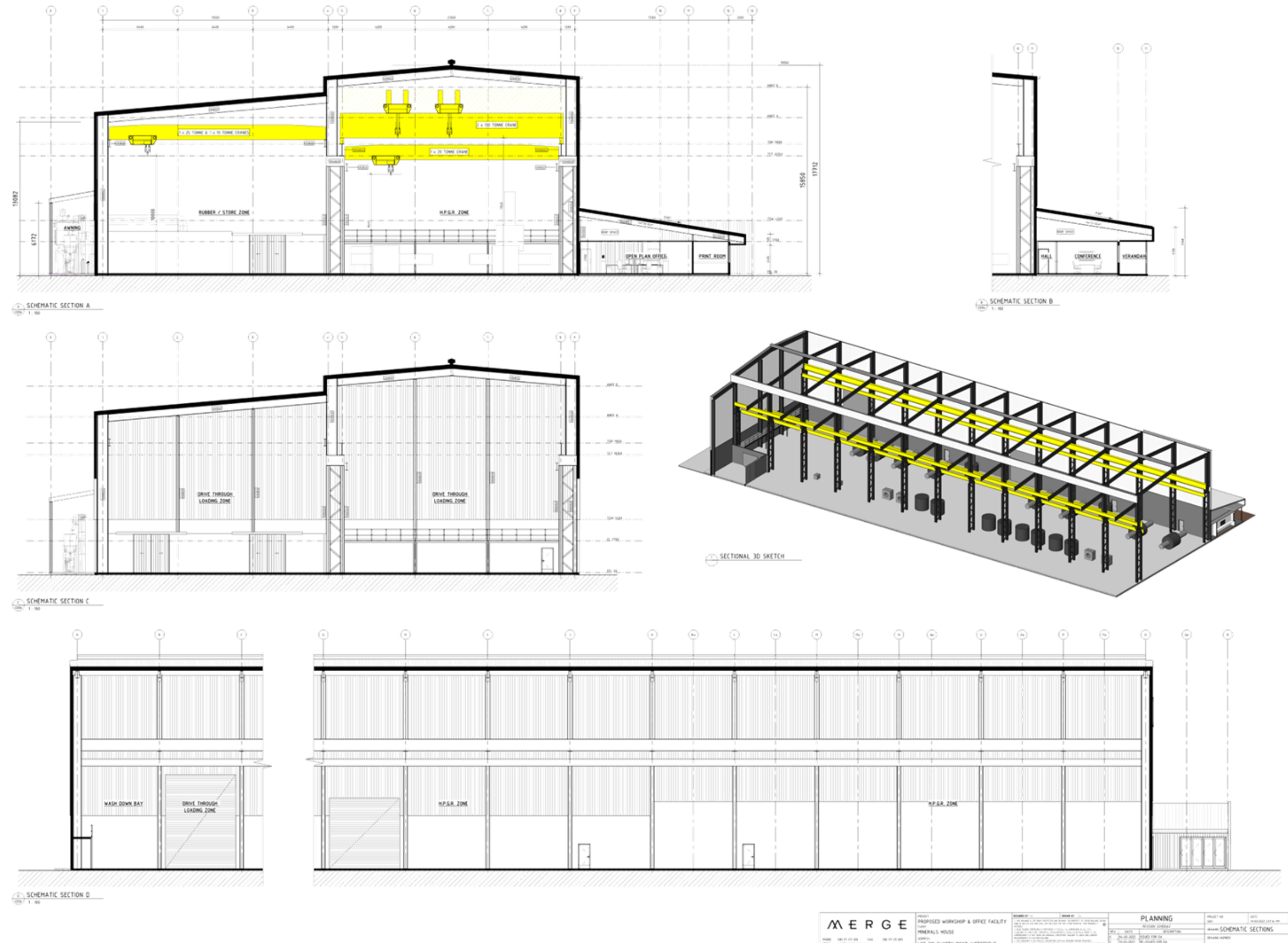


PROPOSED OFFICE LAYOUT
1:100

MERGE		PROJECT: PROPOSED WORKSHOP & OFFICE FACILITY	REVISION: 01	DATE: 20/04/2022	40
MINERALS HOUSE		CLIENT: MINERALS HOUSE	DESIGNER: MERGE	PROJECT NO: 2022-01	
1/100		DATE: 20/04/2022	BY: [Signature]	PROJECT NO: 2022-01	
		DATE: 20/04/2022	BY: [Signature]	PROJECT NO: 2022-01	











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BIO



Photo Credit:
Taj Kempe

ANDREW FRAZER is a full-time, multidisciplinary artist from Gelorup, Western Australia.

Influenced by common shared stories that remind us of our humanity, Andrew's art draws upon our inner-child through subtle textures, whimsical characters & imaginative driven landscapes. From public murals, hand lettering, design & illustration, Andrew has been commissioned by various clients from around the world in commercial & private settings.

In extension to his own practise, Andrew is the Founder & Creative Director of Six Two Three Zero - an independent, Bunbury based initiative that seeks to use public art as a catalyst for urban development & social change by bringing communities together in conversation & creative inspiration. It is responsible for commissioning over 30+ large scale murals in Bunbury's CBD, with expansion into Armadale's CBD from 2017-2019.

...

Select Clients: Shelter Brewery Co (AUS), Sirona Capital (AUS), Derwent (AUS), Water Corporation (AUS) . Design House Greetings (USA) . The Sold Project (USA/Thailand) . Machell (AUS) . Magnesium Media (AUS) . Detour Coffee (CA) . The Walkley Foundation (AUS) . Cor-bis Images (USA) . Jedidiah USA (USA) . Magenta Agency (AUS) . Vulture Culture (AUS) . FORM (AUS) . Verb Syndicate (AUS) . Holstee (USA) . Little King Goods (CA)

Select Government Clients: Department of Premier & Cabinet, City of Greater Geraldton, City of Blacktown, City of South Perth, City of Stirling, City of Armadale, City of Bunbury, Shire of Dardanup, Shire of Collie, Shire of Capel, Shire of Katanning, City of Melville, Shire of Serpentine Jarrahdale, City of Vincent & Shire of Augusta Margaret River.

DOCUMENTATION (Upon Request) :

Working at Heights | EWP High Risk License | White Card | Certificate of Currency | Working With Children's Check

ANDREW FRAZER DESIGN | 9800 75 34 64 64 64

CV

Exterior Mural | City of Frankston | Frankston . VIC
Exterior Mural | City of Bunbury | Bunbury . WA
Exterior Mural | City of Busselton | Dunsborough . WA
Exterior Mural | City of Melville | Duncraig . WA
Exterior Mural | City of Joondalup | Duncraig . WA
Exterior Mural | Water Corporation | Bunbury . WA
Exterior Mural | Shire of Dardanup | Eaton . WA
Exterior Mural | Heartwalk KB | Kalgoorlie . WA
Exterior Mural | Blind Corner Winery | Quindalup . WA
Exterior Mural | Public / FORM | Albany . WA
Exterior Mural | City of Vincent | Mount Hawthorn . WA
Exterior Mural | Verb Suncidate| Wollongong . NSW
Exterior Mural | Heartwalk KB | Kalgoorlie . WA
Exterior Mural | Priceline Pharmacy | Margaret River . WA
Exterior Mural | Shire of Capel | Capel . WA
Exterior Mural | St Mary Primary School | Bunbury . WA
Internal Mural | Private Residence | Serrento . WA
External Mural | Bunbury Catholic College | Bunbury . WA

Publication | Drawn Onward | Children's Story Book | Fremantle Press
Group Exhibiton | Claremont Art Awards | City of Claremont | Perth . WA
Group Exhibiton | Galvanise | Artsource | Fremantle . WA
Solo Exhibition | Someone Else Somewhere Else | Turner Gallery | Nthbridge . WA

Managing Director	Collie Mural Trail Festival	State Government	Collie . WA
Director & Curator	ReDiscover Mural Festival	Six Two Three Zero	Armadale . WA
Director & Curator	ReDiscover Mural Festival	Six Two Three Zero	Armadale . WA
Director & Curator	Outside the Box	Six Two Three Zero	Bunbury . WA
Director & Curator	Splash of Colour	Water Corporation	Bunbury . WA

Guest Speaker | Drawn Onward | Melbourne Writers Festival | Melbourne . VIC
Guest Speaker | Changemakers Festival | BREC | Bunbury . WA
Guest Speaker | Margaret River Readers & Writers Festival | Margaret River . WA

Consultant	Arts & Culture	Bunbury Geo Economic Development	Bunbury . WA
Consultant	Artisan Jewelry	Interior Mural	Bunbury . WA
Consultant	Private Commision	Exterior Mural	Bunbury . WA
Consultant	Heartwalk KB	Mural Festival	Kalgoorlie . WA

Artist in Residence | Santa Maria College | Attadale . WA
Artist in Residence | Donnybrook District High School | FORM | Donnybrook . WA

Mentorship | Creative Grid | Exterior Mural | Café 140 | Bunbury, WA

Youth Art Workshops & Youth Mural | Griffin Festival | Collie, WA
Youth Art Workshops & Youth Mural | Harvey Senior High School | Harvey, WA

Professional experience prior to 2017 is available upon request.

RESPONSE



I am passionate about story telling & how shared stories strengthen communities. It is the sense of belonging somewhere that isn't defined by individual pursuit but collective passion embracing the reality that we are all in this together. Art in public space allows these conversations to germinate, take root & grow into healthy connections. As a full time visual artist I am continually welcoming people into conversation around place & our connection (& responsibility) to it's past, present & future.

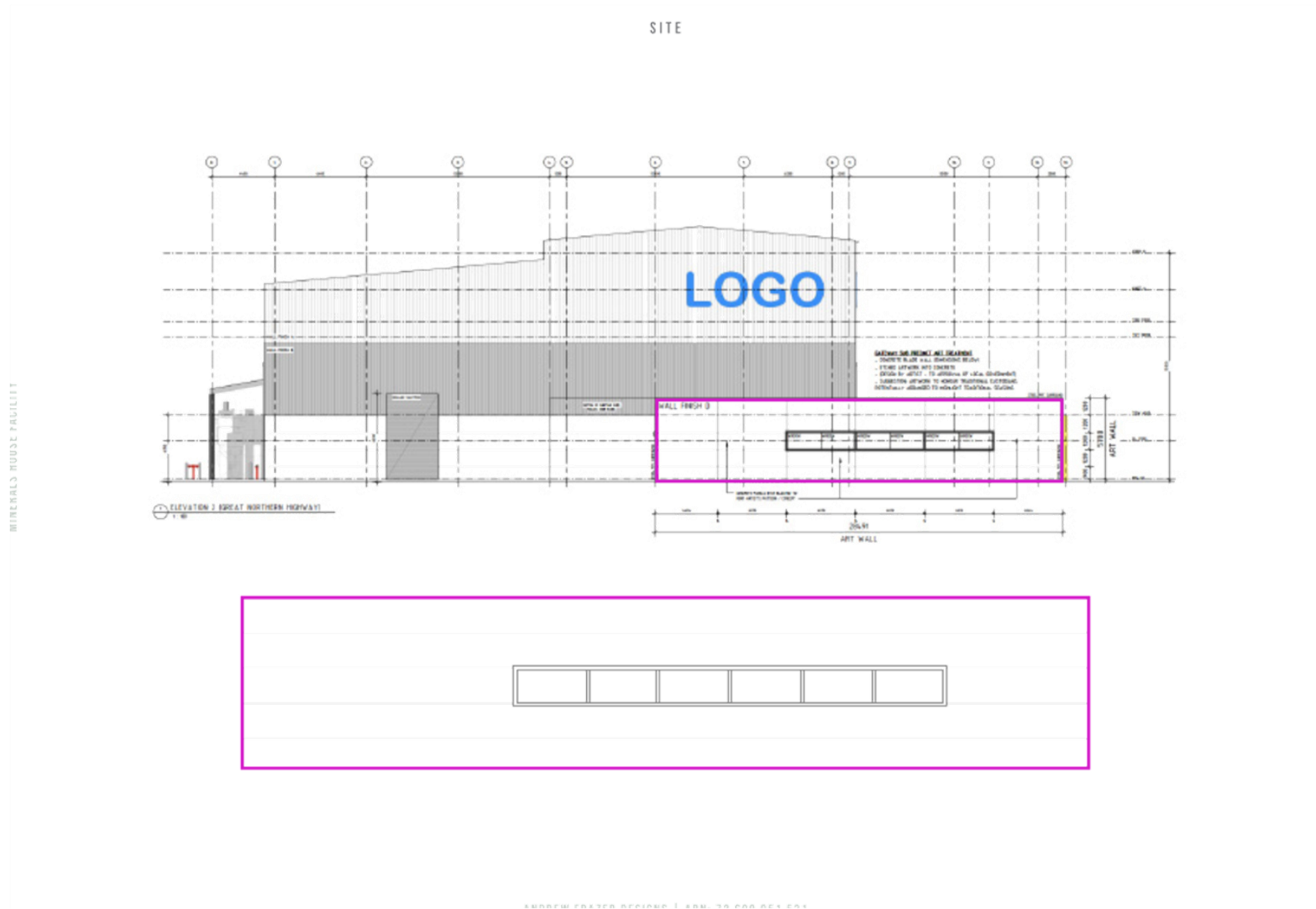
My arts practise is inspired by nature, our sense of home & human stories that weave them together. These themes are expressed through exploration in form, colour, abstraction, typography & site specific research relevant to individual public art projects. The convergence of these themes & application is so the Minerals House Facility public art work can generate & enhance a sense of place and community that reflects Port Hedland's unique identity and culture.'

My approach for the Minerals House Facility is to:

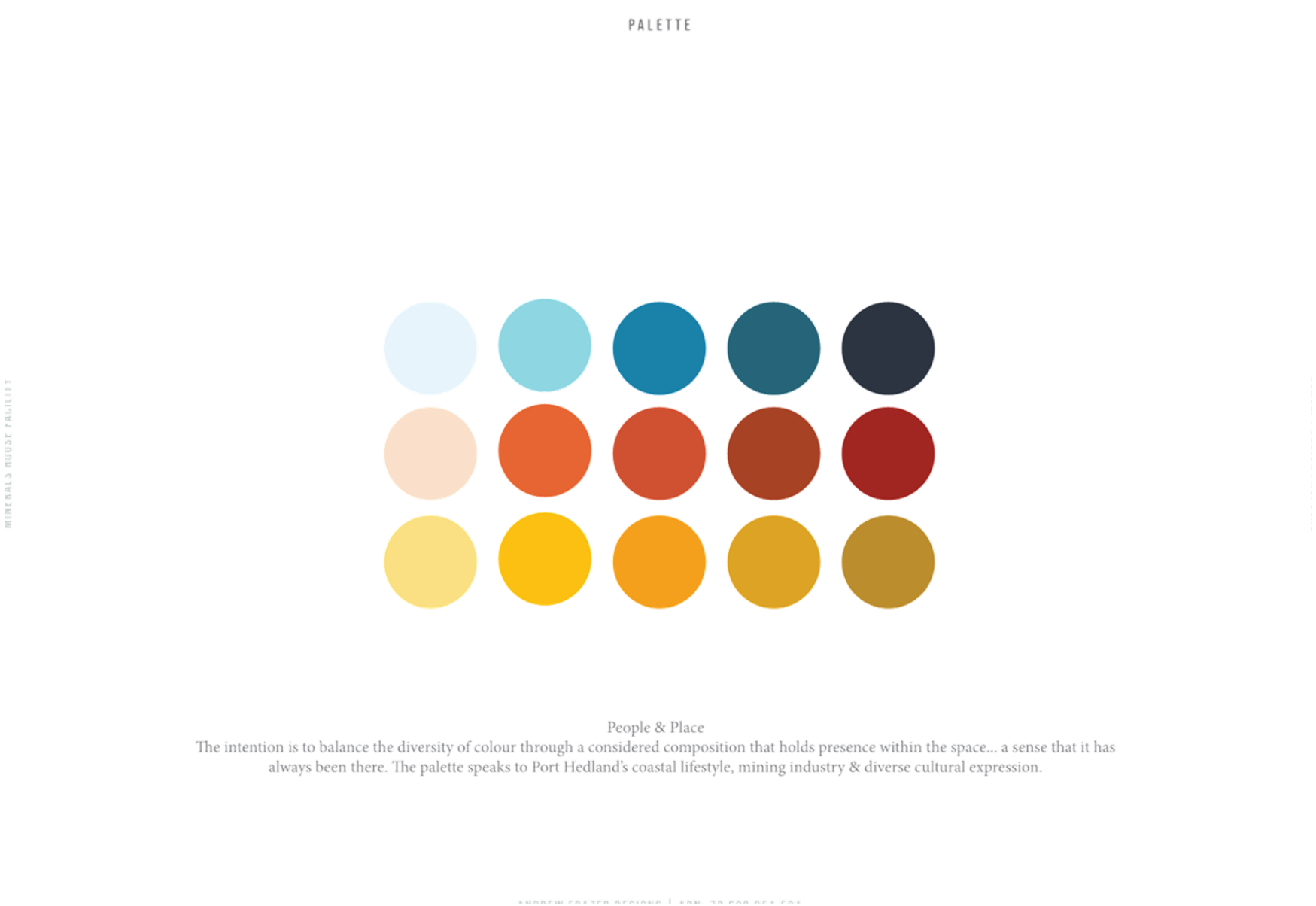
- + Create a unique site specific artwork that celebrates the unique site & it's connection to country & community.
- + Develop an artwork with a foundation of thinking around themes of: Country, Water, Mining, Culture, & History.
- + Represent a reflection of it's future function & built form.

The final artwork aims to deliver community ownership, aesthetic appeal & site specific response that reflects the unique characteristics of Port Hedland. The artwork will serve as a significant landmark that serves as a catalyst of personal (& collective) reflection, shared stories & inspiration for the future. The artwork concept and composition will explore form, colour & narrative inspired by the town's locality, connection to country, & local stories inclusive of the future tenants. Celebrating the ancient & captivating landscapes surrounding Port Hedland will be expressed through a unique, site specific & contemporary painted response.

Through my extensive visual arts & arts management practices, I have developed the necessary skills to work within specified timelines & budgets while maintaining a high level of site specific artwork that fulfills the desired objectives from the respective client(s). The above proposal signifies intentional growth within my own practice to challenge & strive for innovative excellence that engages & inspires.

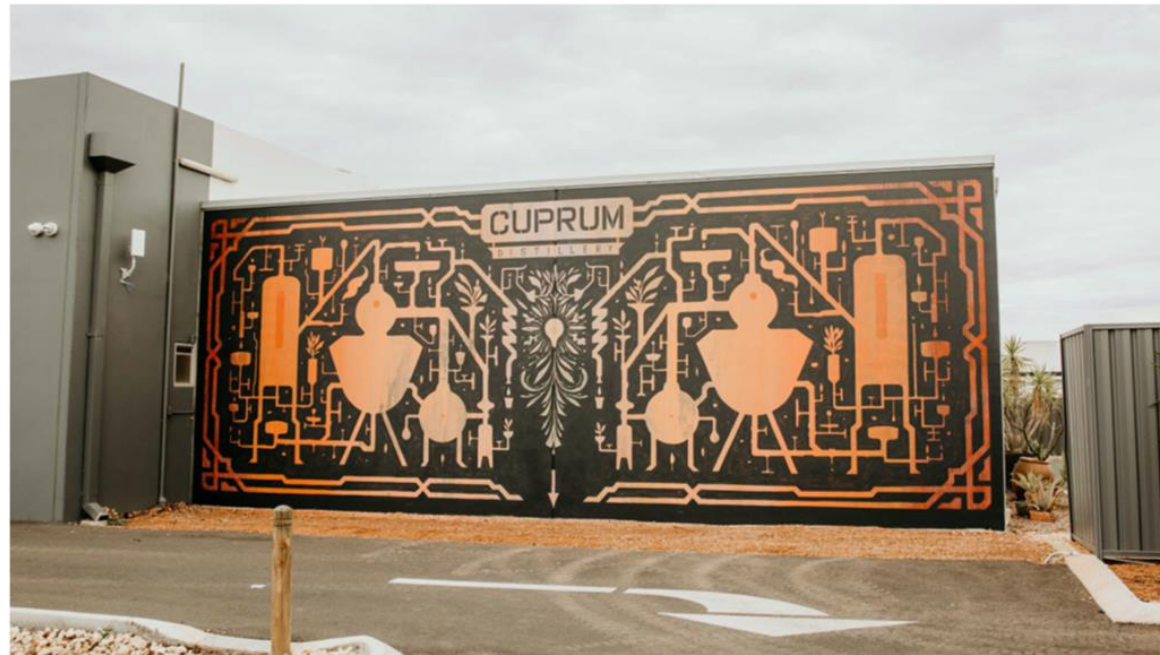








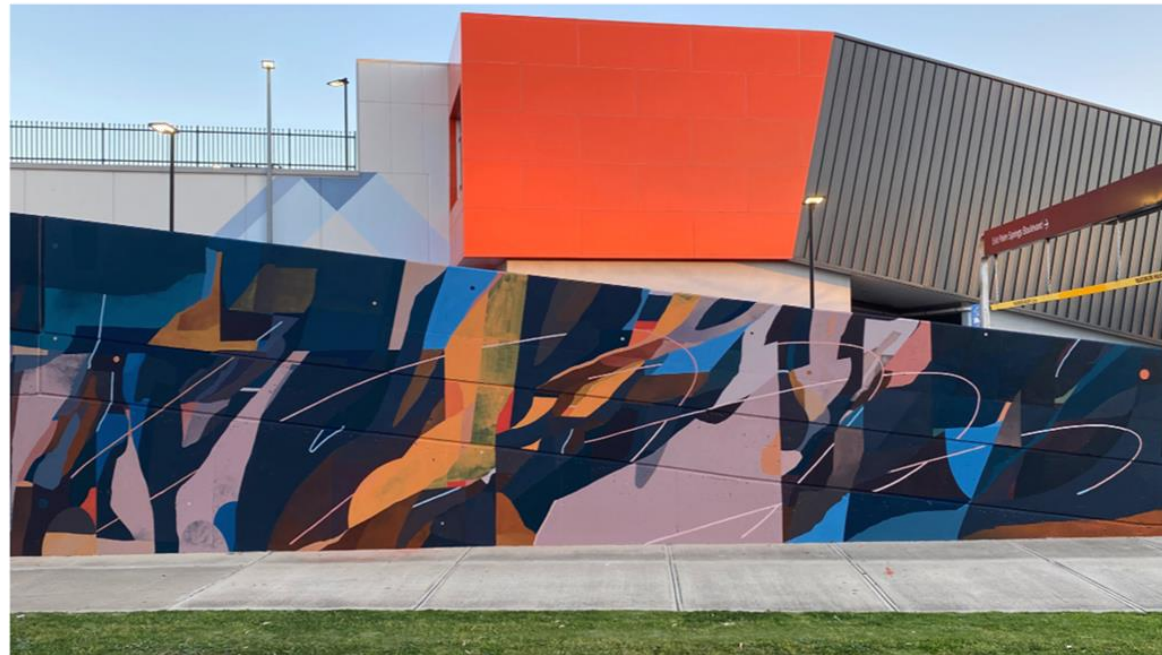
REFERENCE | IMAGE 01



Title: 'Cuprum Process' | Location: Bunbury . WA | Dimensions: 15m x 4m | Exterior Acrylic on Concrete Wall
Year: 2020 | Client: Cuprum Distillery

XXXXXX XXXXX XXXXXX | XXX XXX XXX XXX

REFERENCE | IMAGE 02



Title: 'The Distance From Here' | Location: Warnbro, WA | Dimensions: 16 x 4.5m | Exterior Acrylic on Concrete
Year: 2021 | Client: Frank Knight

本報記者王國平採訪報導 蘇大校長徐建國表示，「今年，蘇大將與中國、美國、英國、日本、韓國、香港、台灣、東南亞、歐洲、非洲、大洋洲等地區的大學建立友好關係。」

REFERENCE | IMAGE 03



Title: 'Movement' | Location: Belmont . WA | Dimensions: 12 x 4.5m | Exterior Acrylic on Concrete
Year: 2021 | Client: City of Belmont

本報記者王國平採訪報導 台北、高雄、基隆、台中、台南、屏東、嘉義、雲林、苗栗、桃園、新竹、彰化、南投、花蓮、台東、澎湖、金門、馬祖。

REFERENCE | IMAGE 04



Title: 'The Pursuit' | Location: Bunbury, WA | Dimensions: 60m x 7m | Exterior Acrylic on Concrete Wall
Year: 2017 | Client: Water Corporation

XXXXXX XXXXX XXXXX | XXX XXX XXX XXX

REFERENCE | IMAGE 05



Title: 'You Are Home' | Location: Collie, WA | Dimensions: 16m x 6m | Exterior Acrylic on Brick
Year: 2020 | Client: Department of Premier & Cabinet

XXXXXX PAPER REGION | XXX XXX XXX XXX

CAPABILITY

'COOINDA'

Client:
City of Bunbury

Location:
Bunbury, WA

Date:
May 11th - 22nd, 2020

Dimensions:
9m x 25m

Contracted by the City of Bunbury via a public tendering process, I painted a large scale public mural as part of the larger Brockman Park redevelopment. The artwork has intentionally responded to site through visual references to the wetlands & cultural significance being located next to Cooinda primary school.

'Cooinda' meaning 'Happy Meeting Place' in Noongar Wardandi language.

The Brockman Park redevelopment allows “flow from an underground storm water drain have been diverted through the new wetland system, removing nutrients and sediments that could otherwise contribute to algal blooms in downstream rivers and estuaries. The unique project was recognised at the recent IPWEA WA Excellence Awards with the City nominated and winning the Excellence in Water Projects award. The Regional Estuaries Initiative is a \$20 million State Government investment in the health of at-risk South West estuaries, supporting liveable and productive communities.”



'TOGETHER'

Client:
Sirona Capital & FORM

Location:
Fremantle, WA

Date:
March 3rd - 25th, 2020

Dimensions:
15m x 180m

Contracted by FORM on behalf of Sirona Capital, my team & I installed a mural artwork, designed by world renowned London artist - Morag Myerscough on three sides of a car park structure (Approx. 15m x 180m) as part of the King Square Redevelopment in Fremantle's CBD. I managed a team of three professional, local artists to bring the vision to reality within a predetermined three week timeline.

Due to Morag's age & geographic location, the installation component was outsourced to myself & my team as professional artists. I presented my extensive experience in arts management & technical understanding as a full time visual artist - providing the necessary evidence to receive the offered contract. There was a series of digital conference meetings with Morag & various stakeholders in lead up to the installation to discuss technical details & proposed methodology including colour sampling. In extension, site visits were undertaken prior to installation to coordinate & confirm rigorous safety requirements.



BUDGET	
ITEM	AMOUNT
Artist Fee	30000
Design Development	4000
Materials	3000
Access Equipment	3000
Wall Preparation	1500
Insurances	Inclusive
Travel (Flights & rental vehicle)	2500
Accommodation & Per Diem (x6 Nights)	2500
Tilt Panel Construction	55000
Maintenance Manual	500
Contingency	2000
	<hr/>
	\$104,000 +GST*
*Exclusive of applied anti-graffiti clear coat	

MINERALS HOUSE FACILITY

CONTACT

ANDREW FRAZER

Frances Rd
Gelorup . WA
6230

andrewfrazerdesigns.com
info@andrewfrazerdesigns.com
0478 614 743

ABN: 72 609 051 531

ANDREW FRAZER DESIGNER | ABN: 72 609 051 531



**LEVEL 14, THE QUADRANT
1 WILLIAM STREET
PERTH WA 6000**

URBIS.COM.AU
Urbis Pty Ltd
ABN 50 105 256 228

24/03/2022

DevelopmentWA
Level 6
Wesfarmers House
40 The Esplanade
PERTH WA 6000

ATTENTION: CATHERINE MCLEOD – DEVELOPMENT MANAGER

Dear Catherine,

**LOT 319 PHOSPHORUS STREET, WEDGEFIELD, PORT HEDLAND –
ASSESSMENT OF PROPOSED INDUSTRIAL DEVELOPMENT AGAINST THE
WEDGEFIELD TRANSPORT DEVELOPMENT INDUSTRIAL DEVELOPMENT
DESIGN GUIDELINES**

We are pleased to advise that we have completed our assessment of the abovementioned proposal against Wedgefield Transport Development Industry Area Industrial Development Design Guidelines (2020).

We note that the Design Guidelines do not hold any statutory weight with any application lodged with the Town of Port Hedland. Therefore, the proposal will also need to be shown to comply with the relevant planning controls administered by the Town of Port Hedland.

While we have not undertaken a detailed assessment against the Town of Port Hedland's planning framework, we do note that the applicant has characterised the use as a 'Storage Facility/ Depot/ Laydown Area' under the Town of Port Hedland's Town Planning Scheme 5 (TPS5), which is permissible within the 'Industry' zone subject to the discretion of Council.

We offer the following comments against the headings set out in the Design Guidelines:

Setbacks

The proposed facility has been sited in accordance with the Primary and Secondary road frontages (being Quarry Road and Phosphorus Street respectively). The proposed building has a 28.7m setback to Quarry Road and is in excess of 3m from the secondary street frontage and side setbacks.

Site Planning and Design

The proposed development locates the office to address the corner of Quarry Road and Great Northern Highway/Wallwork Road allowing passive surveillance and achieving visual interest on entrance to the estate.

2022.03.24_Letter - Assessment of Plans - Lot 319 Phosphorus Street



Operational requirements are located to the rear of the primary building, largely screened from view from Quarry Road and Great Northern Highway/Wallwork Road.

Site Cover

The proposed site cover is below the maximum of 50% required.

Car Parking and Manoeuvring

49 parking bays have been provided (16 for staff and 33 for customer). Approval will be required from the Town of Port Hedland for parking based on the provided justification (as noted on the plans). Suitable landscaping and pathways have been provided. Visitor and staff parking has been adequately separated from truck manoeuvring areas and onsite manoeuvring can be undertaken for all vehicles to ensure they can exist the site in forward gear.

Crossovers

The proposal includes four crossovers. Two crossovers to Quarry Road, 1 providing for access to the visitor parking area and a separate crossover providing access to the remainder of the site. Two crossovers are provided to Phosphorus Street, 1 providing for truck access and the other for smaller vehicles.

Wash Down Bays and Refuse Collection

Appropriate wash down and refuse collection areas have been identified on the plans in accordance with the requirements of the design guidelines.

Fencing

Fencing to the street frontages is proposed as black garrison fencing to 2100m. It is noted the design guidelines set out a height of 2000m. It is recommended the fencing height is reviewed prior to development to comply with the heights.

Fencing to the side boundary is proposed as chain link mesh fencing to 2100m. It is noted the design guidelines set out a height of 2000m. It is recommended the fencing height is reviewed prior to development to comply with the heights.

Energy Management and Lighting

Energy managing and lighting is compliant with the requirements such as cross ventilation, limiting of east and west facades and reduced glazing.

It is highlighted that the energy efficiency details such as solar hot water, water wise fittings and energy efficient light fittings shall be incorporated into the detailed building design.

Landscaping

The proposal includes a minimum 3m landscaping strip/ drainage swale to all boundaries, with additional landscaping areas strip being provided within the site boundaries. The planting detail and schedule is in accordance with the planting schedule. Confirmation of mulching consistent with the requirements of the design guidelines is provided.



A comprehensive landscaping plan has been prepared which is considered to achieve the intent of TPS5.

Built form Character and Detail

The proposed development includes a range of articulation features which aid in the positive contribution to the streetscape of Quarry Road. The proposal includes a range of materials, variation in depth and provision of the office component to the corner location to provide interest.

It is acknowledged that the warehouse component incorporates a degree of blank wall however this is considered to be anticipated on this lot due to the site layout. The expanse of the walls on the warehouse has been broken up through varied colour and openings.

Materials, Finishes and Colour

The building materials are compliant with the design guidelines.

External Fixtures

External fixtures have been screen from the street view.

Flood Water and Storm Surge

It is highlighted that the minimum FFL is required to be RL 6.3m AHD. Electrical fittings and storage of valuable or hazardous goods is to be at a minimum of RL 7.5 AHD.

Conclusion

The proposal in its current form is generally compliant with the design guidelines DevelopmentWA approval is recommended until further articulation is provided.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Dunning".

Emma Dunning
Senior Consultant

Bushfire management plan/Statement addressing the Bushfire Protection Criteria coversheet

Site address:

Site visit: Yes ☒ No ☐

Date of site visit (if applicable): Day Month Year

Report author or reviewer:

WA BPAD accreditation level (please circle):

Not accredited ☐ Level 1 BAL assessor ☐ Level 2 practitioner ☐ Level 3 practitioner ☒

If accredited please provide the following.

BPAD accreditation number: Accreditation expiry: Month Year

Bushfire management plan version number:

Bushfire management plan date: Day Month Year

Client/business name:

	Yes	No
Has the BAL been calculated by a method other than method 1 as outlined in AS3959 (tick no if AS3959 method 1 has been used to calculate the BAL)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any of the bushfire protection criteria elements been addressed through the use of a performance principle (tick no if only acceptable solutions have been used to address all of the bushfire protection criteria elements)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is the proposal any of the following (see [SPP 3.7 for definitions](#))?

	Yes	No
Unavoidable development (in BAL-40 or BAL-FZ)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Strategic planning proposal (including rezoning applications)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
High risk land-use	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulnerable land-use	<input type="checkbox"/>	<input checked="" type="checkbox"/>

None of the above ☒

Note: Only if one (or more) of the above answers in the tables is yes should the decision maker (e.g. local government or the WAPC) refer the proposal to DFES for comment.

Why has it been given one of the above listed classifications (E.g. Considered vulnerable land-use as the development is for accommodation of the elderly, etc.)?

The information provided within this bushfire management plan to the best of my knowledge is true and correct:

Signature of report author
or reviewer



Date

Bushfire Management Plan

Lot 319 Quarry Road

Wedgefield Industrial Estate Port Hedland

April 2022





LIMITATIONS STATEMENT

This Bushfire Management Plan ('BMP') has been for the proposed Workshop and Office facility at Lot 319 Quarry Road Wedgefield Industrial Estate Port Hedland

Envision Bushfire Protection

ABN: 90958370365

PO Box 7209 SHENTON PARK WA 6008

Ph: 0428 066 147

Email: admin@envisionbp.com.au

Version Control

Lot 319 Quarry Road Wedgefield Industrial Estate Port Hedland Industrial Building (Class 8)			
Version	Date	Author	
V1	7 April 2022	Anthony Rowe	submission

Copyright

Unless otherwise agreed in writing, this report is the intellectual property of Envision Bushfire Protection. The report is designed to be used exclusively by the person who commissioned it. Permission must be sought prior to the reproduction of any portion of this document, and every effort is made to ensure proper referencing of this document.

Disclaimer

In undertaking this work, the authors have made every effort to accurately apply the available information at the time of writing following the instructions of the regulatory authorities and applying best practice as described by the Fire Protection Association Australia. Any conclusions drawn or recommendations made in the report are made in good faith, and the consultants take no responsibility for how this information and the report are subsequently used.

Envision Bushfire Protection accepts no liability for a third party's use of, or reliance upon, this specific report.

Envision Bushfire Protection accepts no liability for the inaction of the owner to provide or maintain the bushfire protection measures identified in this report. Vegetation is dynamic, building materials may distort, and the accumulation and the location of flammable materials near the building may affect the potential for damage or loss of a building to occur.

Failure to maintain the property and/or building to these standards may compromise an insurance policy if currently covering any of your assets or those of any third party that may be consequentially affected due such failure. If not insured, and if you are seeking insurance, this report may not influence the decision of any insurer not to offer cover.

Importantly the measures contained in this report cannot guarantee human safety or an absence of harm or that the building will not be damaged or would survive a bushfire event on every occasion. This is due to the unpredictable nature of fire behaviour (knowledge in this field continues to develop) and the unpredictable nature of extreme weather conditions.

**Client relationship**

I was engaged to provide expert bushfire safety and planning advice. My relationship with the client is a standard commercial contract, and no private, personal, or other matter has influenced the content of the BMP or my findings.

STATEMENT OF CONFORMITY – PLANNING AND DEVELOPMENT ACT 2005

Anthony Rowe Level 3 - BPAD36690

Principal



The signatory declares that this Bushfire Management Plan meets the requirements of State Planning Policy 3.7 and the Guidelines for Planning in Bushfire Prone Areas V1.4.



EXECUTIVE SUMMARY

Preface

The proposal is to construct a Workshop and Office facility at Lot 319 Quarry Road Wedgefield Industrial Estate Port Hedland.

The site is within a declared bushfire prone area. Accordingly, the proposal is development that is required to be assessed for its compliance with State Planning Policy 3.7 *Planning in Bushfire Prone Areas* ('SPP 3.7') and the bushfire protection criteria described in the Guidelines V1.4.

The intent of the policy is: ***"to preserve life and reduce the impact of bushfire on property and infrastructure"***.

SPP 3.7 is a risk based arrangement that utilises AS 3959:2018 as a basis of determining the Bushfire Attack Level (the risk) and in turn the corresponding siting and construction standard (risk treatment).

This BMP has been prepared in accordance with SPP 3.7 and Appendix Five in the Guidelines V1.4 and the Department of Planning Lands and Heritage (DPLH) *BMP Template for a complex development application*; the following has been prepared to comply with the DPLH template.

1. Proposal details (addressed in Section 1)

The proposal will comprise a workshop, office facility and lay down area at Lot 319 Quarry Road Wedgefield Industrial Estate Port Hedland.

The workshop will service heavy vehicles and equipment used in the mining industry. The undertaking of hot works outside of the building is restricted on total fire ban days. The site provides little opportunity for an isolated ignition to spread beyond the site and into flammable vegetation.

The site is 2.1 ha in area and rectangular in shape. It is flat and vacant of buildings and classified vegetation.

The site is bound by roads on all sides but only has access to Quarry Road.

The site has access to a reticulated water supply and a hydrant network will be established within the site.

2. Environmental considerations (addressed in Section 2)

The site is clear of any restricted vegetation. No restricted vegetation will require removal.

3. Bushfire assessment results (addressed in Section 3)

A Bushfire Attack Level assessment following Method 1 AS 3959:2018, and the DPLH *Visual guide for bushfire risk assessment in Western Australia*, and using an FFDI of 80, has been undertaken.

The classified vegetation (low shrubs up to 1 m tall) is the only vegetation within 100 m of the proposed buildings, located to the north east and south east. The nearest vegetation is in the drainage swale located in the south of the site in the Wallwork Road reserve

4. Identification of bushfire hazard issues (addressed in Section 4)

The site is located at the south eastern extent of an established industrial area with contiguous shrubland extending from the site over level ground in other directions for up to 2 km. The site is within an area (Shrubland) classified as a moderate bushfire hazard level.

The proposed building is isolated from direct contact with vegetation by a hard stand area and areas of mineral earth (between the site and drainage swale to the south, and roadways Quarry Road (at the east boundary) and Phosphorous Road (at the west boundary).

The adjoining land is level and shrubland is not a high generator of embers. The proposed building is unlikely to be affected by unusual fire behaviour. The topography will have little influence over the bushfire behaviour, which will be mostly wind driven. The building, set within a low threat surface within the site, will not be exposed to a direct flame contact, only a low density ember attack.

Ember attack is responsible the destruction of the majority of buildings lost to bushfire. This is through embers, even at low density, penetrating gaps in the exterior of the building to find flammable materials



within the building, or finding flammable material stored against the building near vulnerable elements, such as windows or door areas.

The proposed building is of masonry construction; windows and doors are the most vulnerable elements. Whilst the bushfire risk to the building is considered low, site management to ensure the integrity of the building exterior, to prevent ember entry, and avoiding the storage of flammable materials near vulnerable elements will reduce the risk of building ignition from bushfire attack.

5. Assessment against the bushfire protection criteria (addressed in Section 5)

The proposal was compared with the four Bushfire Protection Criteria Elements: Location, Siting and Design, Access, and Water. Element 5 Vulnerable tourism land use is not applicable to this proposal.

Acceptable Solution

Element 1: Location: Development should avoid areas of Extreme bushfire hazard level.

This Element is applicable to strategic planning considerations and subdivision but is resolved by a development that can achieve BAL 29.

In this instance the building is within a moderate bushfire hazard level area (compliant) and the entire site is determined to not exceed BAL 29 (compliant).

The proposal is compliant with Element 1.

Element 2: Siting and design: No habitable building, upon completion of the development, is to be located within an area exceeding BAL-29.

No clearing of potentially restricted vegetation is proposed nor is an Asset Protection Zone required on the development site. The portion of the site to be occupied by the proposed building does not exceed BAL-29 (BAL 12.5) and the site will be maintained as low threat.

The site is within an industrial area. It is characteristic of the locality that road verges do not revegetate above a nominal condition and remain in a low bushfire threat. Where drainage swales have been provided, they are located close and parallel to the roadway. There are no plans to landscape the road reserve at Wallwork Road in the area between the site and the drainage swale.

The proposal is compliant with Element 2.

Element 3: Access: the provision of access/egress to two suitable destinations in opposite directions from one another

The site has access to Quarry Road a through road and the site entrance is within 82 m of Wallwork Road which is a major collector road within the area providing access to the Port Hedland, coastal township.

Element 4: A supply of water at the site is required for adequate for fire suppression.

The site has access to a reticulated water supply and hydrant network is provided throughout the estate and will be provided at the site. The proposed building is classed as a large, isolated building and fire suppression requirement for the building will be provided in accordance with the National Construction Code.

Whilst the structural fire requirements are independent of bushfire, they can be applied to provide a dual function, i.e. the positioning of fire hoses to undertake fire suppression on the outside of the building, in addition to the provision of site hydrants to assist the fire suppression by emergency services.

Additional Bushfire Management Strategies (addressed in section 5.2)

No additional Bushfire Management Strategies are required in addition to the risk treatment provided by the satisfaction of the Bushfire Protection Criteria.

Existing risk controls, external to control by the applicant, are expected to be maintained. This includes public notification of bushfire, the provision of emergency services for the community, the maintenance of public roads, and the capacity of the reticulated water supply.

Spatial representation of the bushfire management strategies (Figure EX 1)

The key features demonstrating compliance with the bushfire protection measures are identified on the *Spatial representation of the bushfire management strategies*.

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These actions are reflected in the following *Responsibilities for implementation and management of the bushfire measures*.

6. Responsibilities for implementation and management of the bushfire measures

The Owner responsibilities (Guidelines 4.6.3) identify the bushfire management measures necessary to achieve compliance with the bushfire protection criteria.

Owner

- | | |
|---|---------------------------------|
| 1. The site will be maintained consistent with the description of low threat provided in AS 3959:2018 at cl. 2.2.3.2 (e). Amenity landscaping that may be undertaken on the site should have regard to the spatial arrangement described in the Asset Protection Zone standard (Guidelines for Planning in Bushfire Prone Areas V1.4). | Prior to occupation and ongoing |
| 2. Vehicle movement areas within the site access are to be provided in accordance with the technical requirement in Table 6 column 4 (Guidelines for Planning in Bushfire Prone Areas V1.4) to be clearly identified and remain unobstructed at all times (i.e. avoid the storage of materials and obstruction in the PVA and obstruction of access to hydrants). | Prior to occupation and ongoing |

Notifications

- | | |
|---|---------------------|
| 1. A notification, pursuant to Section 165 of the Planning and Development Act 2005, is to be placed on the certificate(s) of title of the proposed lot(s) with a Bushfire Attack Level (BAL) rating of 12.5 or above, advising of the existence of a hazard or other factor. | Prior to occupation |
|---|---------------------|
- Notice of this notification is to be included on the diagram or plan of survey (deposited plan). The notification is to state as follows:
- "This land is within a bushfire prone area as designated by an Order made by the Fire and Emergency Services Commissioner and is/ may be subject to a Bushfire Management Plan. Additional planning and building requirements may apply to development on this land"*

Advisory notes

1. It is at the applicant's discretion to construct the building to incorporate the BAL construction standards applicable to the BAL at the location of each building where a higher fire resistance level is not provided by the *Building Act 2011/NCC 2019*. Particular regard may be given to the construction, to avoid the potential for ember attack, by avoiding gaps >2mm in the external surfaces and combustible material less than 400 mm above the ground.
2. The landowner acknowledges their duty of care to protect any visitors to the site from harm, from a bushfire affecting the property and for the safe direction of evacuation from the site
3. The landowner acknowledges the placement of flammable objects within close proximity to a building may expose the building to a direct flame contact that may result in the ignition of the building.
4. The landowner is responsible for availing themselves of any promotions and information to assist owners in preparing for and responding to a bushfire event as may be made by the Town of Port Hedland or the Department Fire and Emergency Services.
5. Where there is conflict between this Bushfire Management Plan and the Town Firebreak Notice the higher level of bushfire protection will prevail.

**Acknowledgment - Proponent**

The proponent acknowledges the responsibilities as listed above and the requirement to ensure that should the land transfer to a new owner, that the new owner is aware of the BMP and their ongoing responsibility.

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Figure EX 1 - Spatial representation of the proposed risk management strategies



Lot 319 Quarry Road Wedgefield Industrial Estate Port Hedland

Conditions

1. The site will be maintained consistent with the description of low threat provided in AS3959:2018 at cl. 2.2.3.2 (e).
2. The internal driveway is to be maintained in compliance with Table 6 column 4 to ensure an unobstructed access for emergency service vehicles at all times.

Notification

1. A notification, pursuant to Section 165 of the Planning and Development Act 2005, is to be placed on the certificate(s) of title of the proposed lot(s) with a Bushfire Attack Level (BAL) rating of 12.5 or above, advising of the existence of a hazard or other factor.

Advisory Notice

It is at the applicant's discretion to construct the buildings to incorporate the BAL construction standards applicable to the BAL at the location of each building where a higher fire resistance level is not provided by the Building Act 2011/NCC 2019.

LEGEND

-  Site Boundary
-  Asset Protection Zone
-  Accessway



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1. PROPOSAL DETAILS

1.1 Introduction

Purpose of this Plan

The purpose of this BMP is to assess the suitability of the proposal and its location for the intended use and identify the measures to avoid an increase in the threat of bushfire and reduce the vulnerability of people and property (to the degree necessary) from potentially significant adverse bushfire impacts.

Site and Proposal Description

Address	Lot 319 Quarry Road Wedgefield Industrial Estate Port Hedland			
Local Government Area	Town of Port Hedland			
Local Planning Scheme Zone	Town of Port Hedland – local Planning Scheme #7 - Industrial Development Zone			
Bushfire Season	1 November and 31 March, as per the fire break notice but seasonal FDI is highest from October to February.			
Development proposal	Workshop to service heavy vehicles and mining equipment			
Building class	Class 8			
Lot size	2.1 ha			
Land description site	A regular shaped urban/industrial lot. The site is vacant and flat The site is classed as low threat, cleared surfaces.			
Adjoining Land uses	North	East	South	West
Within 150 m	Hardstand/excluded AS 3959:2018 2.2.3.2 (e)	Low threat AS 3959:2018, cl. 2.2.3.2(e) up to 57 m followed by shrubland	Low threat AS 3959:2018, cl. 2.2.3.2(e) up to 28 m followed by shrubland	Hardstand/excluded AS 3959:2018 2.2.3.2 (e)
Within 2.0 km	Shrubland	Shrubland	shrubland	Industrial estate (low threat AS 3959:2018, cl. 2.2.3.2(e).
Road Access	Access to the site is from Quarry Road, via Wallwork Road.			
Water supply	The site has access to a reticulated water supply.			
Tele communications	The site is within the Telstra 4G - 5G network			
Emergency services	The nearest fire brigade is South Hedland Fire & Rescue, Hamilton Rd, South Hedland			



Minor Development	N/A
Unavoidable development	N/A
Vulnerable Development	N/A
High risk land use	The proposal does not exhibit the potential to expose the community, firefighters or the surrounding environment to dangerous and un controlled substances during a bushfire event.



Plate 1: Site in Locality (the site is 7.2 km south of Port Hedland)



Plate 2: OBRM Bushfire Prone Area (Pink area)

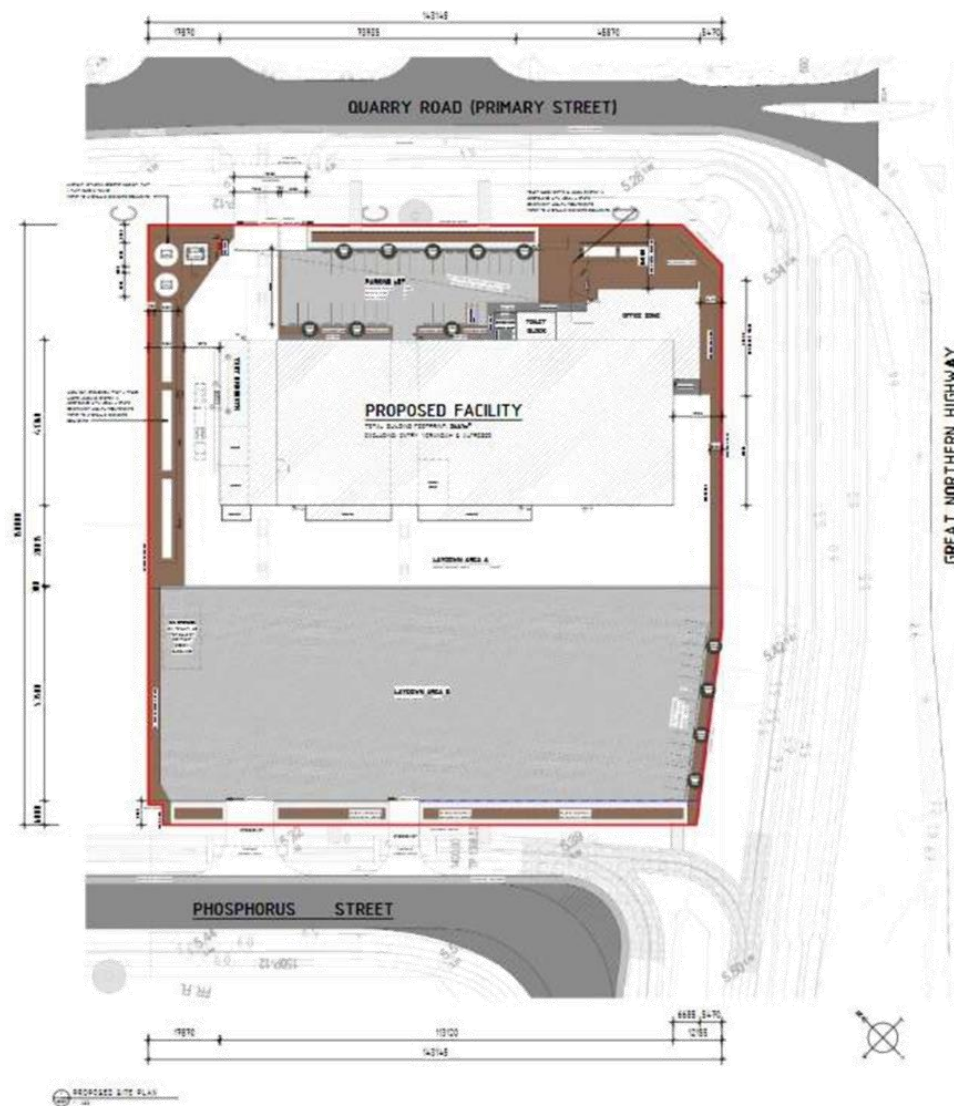


Plate 3: Site Plan

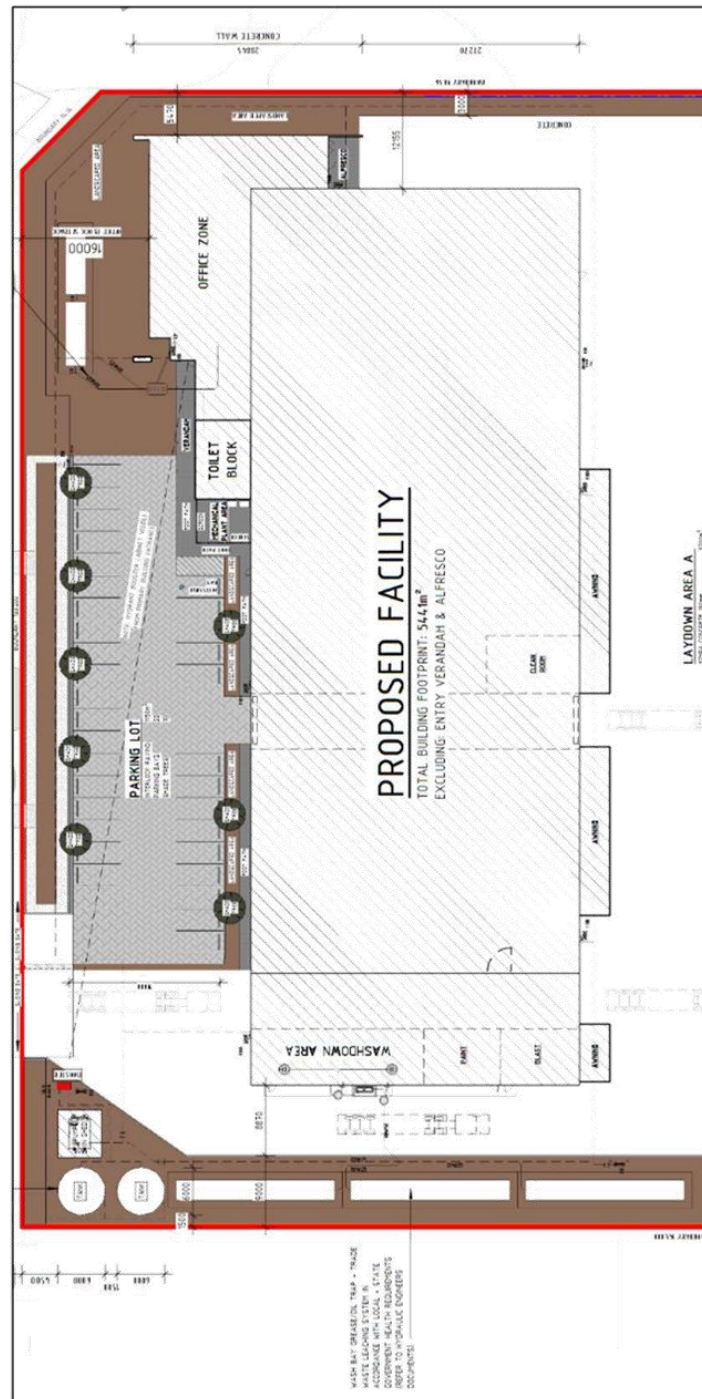


Plate 4: Building (workshop and office) with boundary setbacks



1.2 Regulatory Compliance Requirements

Planning and Development Act 2005 - SPP 3.7

On 7 December 2015, the State Government introduced by Gazette, a state map of Bushfire Prone Areas by order under the *Fire and Emergency Services Act 1998* and introduced development controls in Bushfire Prone Areas through the *Planning and Development Act 2005*. These controls were authorised by State Planning Policy 3.7 (Planning in Bushfire Prone Areas) regulations introduced under Part 10A Schedule 2 of the *Planning and Development (Local Planning Scheme) Regulations 2015* and guided by the *Guidelines for Planning in Bushfire Prone Areas*.

The State Planning Policy, Regulations, and Guidelines now form the foundation for fire risk management planning in WA at a community and land development level. The Policy Intent of SPP 3.7 is *to preserve life and reduce the impact of bushfire on property and infrastructure*.

Building Act 2011

The proposal is a Class 8 building for the purpose of the *Building Act 2011*. The *Building Act 2011*, utilising the National Construction Code 2019 applies AS 3959:2018 construction requirements only upon class 1, 2, 3, and 10a buildings. The construction requirements in AS 3959:2018 are often exceeded by the construction requirement for other classes of buildings. In instances where it does not, then a higher standard can be volunteered.

Bushfires Act 1954

Section 33 of the *Bushfires Act 1954* recognises the responsibility of all landowners to prevent the spread of bushfire. The Local Government issues a Firebreak Notice annually. It can also issue a notice upon the landowner to act as and when specified in the notice with respect **to anything which is upon the land**, and which in the opinion of the local government or its duly authorised officer, is or is likely to be, conducive to the outbreak of a bushfire or the spread or extension of a bushfire.

An owner who fails to comply with a notice is guilty of an offence (Penalty: \$5,000). The local government may in addition carry out the required works of the notice and recover the costs incurred by application to a Court.

Ecological legislation

It is an offence to clear native vegetation without the authority of a permit or an exemption (regulated vegetation).

(WA) Environment Protection Act 1986 and Environmental Protection (clearing native vegetation) Regulation 2004

(WA) Biodiversity Conservation Act 2016 and Bio-diversity Conservation Regulations 2018

(Commonwealth) Environment Protection Biodiversity Conservation Act 1999

The Commonwealth Environment Protection Biodiversity Conservation Act 1999 provides for the protection of matters of national environmental significance. National environment law does not generally regulate fire prevention measures taken by state and territory governments, but no specific exemptions are provided.

In this instance no clearing or modification of regulated vegetation is proposed.



2. ENVIRONMENTAL CONSIDERATIONS

2.1 Native Vegetation – Modification and Clearing

A fundamental consideration in the assessment of development under SPP 3.7 is to avoid instances where bushfire risk management measures would conflict with or be limited by other biodiversity management measures.

In accordance with the Department of Planning Lands and Heritage template (BMP template to support a BAL Contour Assessment) a review of the listed databases has been undertaken as part of this assessment to identify whether restrictions or other specific considerations may apply that would affect the implementation of any bushfire protection initiatives that may otherwise be identified.

Table 1: Ecological database assessment.

Is the land affected by:	Yes/No/NA	If yes - describe
Conservation Wetland or buffer (DBCA-019 DBCA-017)	No	
RAMSAR Wetland (DBCA-010)	No	
Threatened and Priority Flora (DBCA-036)	No	
Threatened and Priority Fauna (DBCA-037)	No	
Threatened Ecological Communities (DBCA-038)	No	
Bush Forever (COP-071)	No	
Environmentally Sensitive Area (DWER-046)	No	
Regionally Significant Natural Areas (DWER-070)	No	
Conservation Covenant (DPIRD-023)	N/A	
Does the proposal require the removal of restricted vegetation?	Yes	No

No clearing of regulated vegetation is required.

The proposal imposes no impact upon the adjoining classified vegetation, either in the establishment of an Asset Protection Zone or increased expectations of fuel management.

2.2 Re-vegetation/Landscape Plans

The site will be entirely developed, paved surfaces for roads and building and landscaped managed open spaces for amenity.

The site is to be maintained as low threat.

The site is within an industrial area with road verges left in a nominal condition and a low bushfire threat, the exception being drainage swales parallel to the road. There are no plans to landscape the road reserve adjacent the site, including the area between the site and the drainage swale that is parallel to Wallwork Road.



3. BUSHFIRE ASSESSMENT

3.1 Bushfire Attack Level Assessment (Inputs)

The following assessment has applied the methodologies described in AS 3959:2018, the Guidelines, and has used the Fire Protection Association Australia accredited practitioner methodology for the preparation of Bushfire Attack Level (BAL) assessments.

All vegetation within 150 m (context) of the subject building has been classified following Clause 2.2.3 (AS 3959:2018) to determine the predominant vegetation affecting the behaviour at the locality. The Bushfire Attack Level is determined by the **predominant** vegetation within 100 m of the site boundary (for subdivision), or around the development site (building envelope) or the external face from a habitable building.

The classifications of vegetation used in AS 3959:2018 are based on foliage cover, measured as a percentage of a hectare and by the fuel (vegetation) height.

Foliage cover: The portion of the ground that would be shaded by foliage when the sun is shining directly overhead, expressed as a percentage for each stratum or identifiable layer of vegetation

AS 3959:2018

Layer/ Stratum	Description	Hazard
Bark	Tight/fine – course/ribbon	Spotting and ember attack potential associated with forest
Canopy	Trees taller than 6 m (forest)	Influences the flame height
Elevated fuel	Trees and Shrubs up to 6 m	Influences the flame height
Near surface	Grasses and shrubs taller than 100 mm and up to 2 m	Influences the rate of spread and canopy ignition
Surface	On ground material, leaves, twigs, bark	Influences the rate of spread

From CFA (Vic) Overall fuel assessment guide 2010

AS 3959:2018 prescribes six categories of Bushfire Attack Level (BAL): BAL-LOW, BAL-12.5, BAL-19, BAL-29, BAL-40, and BAL-FZ. In addition, BAL-FZ describes only performance solutions where the separation from classified vegetation (on completion) is less than 10 m. The BAL level is used for determining the siting of development (to be less than BAL-40) and in turn the construction standard that is equivalent to the BAL at the proposed building location.

This assessment has followed the guidance of AS 3959:2018. This includes:

- A recognition of excluded vegetation types described at cl.2.2.3.2 (e) and (f), but the underlying vegetation should still be classed e.g. an orchard may be excluded but not the grassland within it.
- A separate plot is applied if there is a variation in the slope greater than 5.0°
- For various vegetation classes a representation that is less than 10%, does not constitute the predominant class. Foliage cover referred to in AS3859:2018 for various classes is based on the foliage cover for that class as a percentage of a ha. (shadow cast is not representative of foliage cover).
- The measurement point and the most influential vegetation class (presenting the highest BAL at the building) is used for the determination of the BAL at the building (Figure 2.2 AS 3959:2018).
- Consideration of the predominant vegetation is to consider the likelihood of regeneration.
- Orchards, and single tree rows (planted in a row less than 10 m wide) is determined by underlying the near surface fuel.

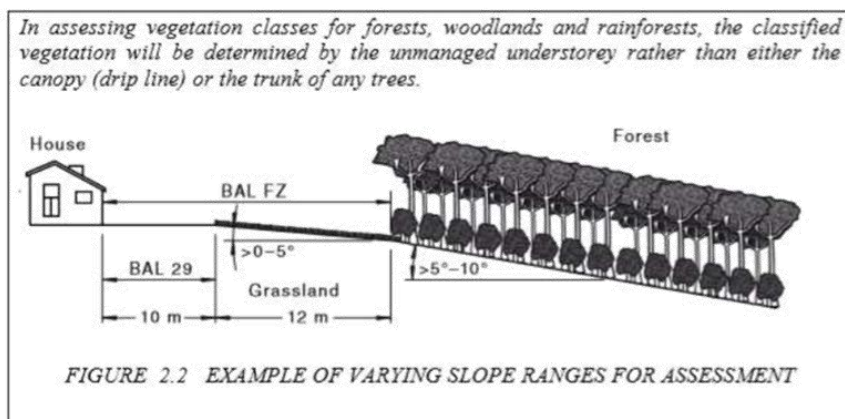


Plate 5: Effective Slope and measurement taken from AS 3959:2018

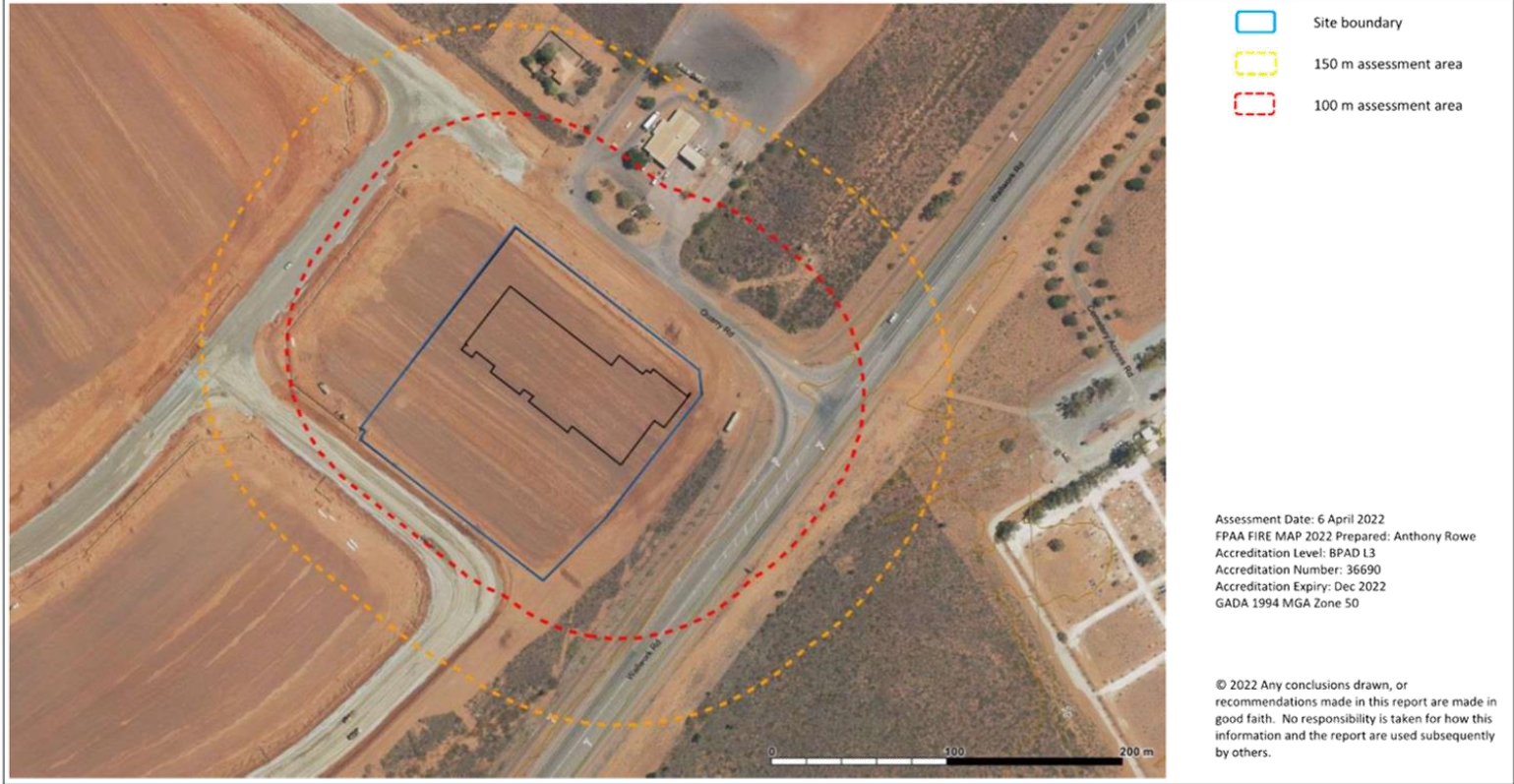
Effective slope under each vegetation plot was assessed in accordance with the methodology detailed in AS 3959:2018 Construction of buildings in bushfire prone areas (AS 3959) (Standards Australia, 2018 Bushfire Fuels). Slope data was measured on site and cross referenced with Landgate elevation data.



Photo evidence Site Assessment & Site Plans

The assessment of this site / development was undertaken on 6 April 2022 by a BPAD Accredited Practitioner for the purpose of determining the Bushfire Attack Level in accordance with AS 3959:2018 Simplified Procedure (Method 1).

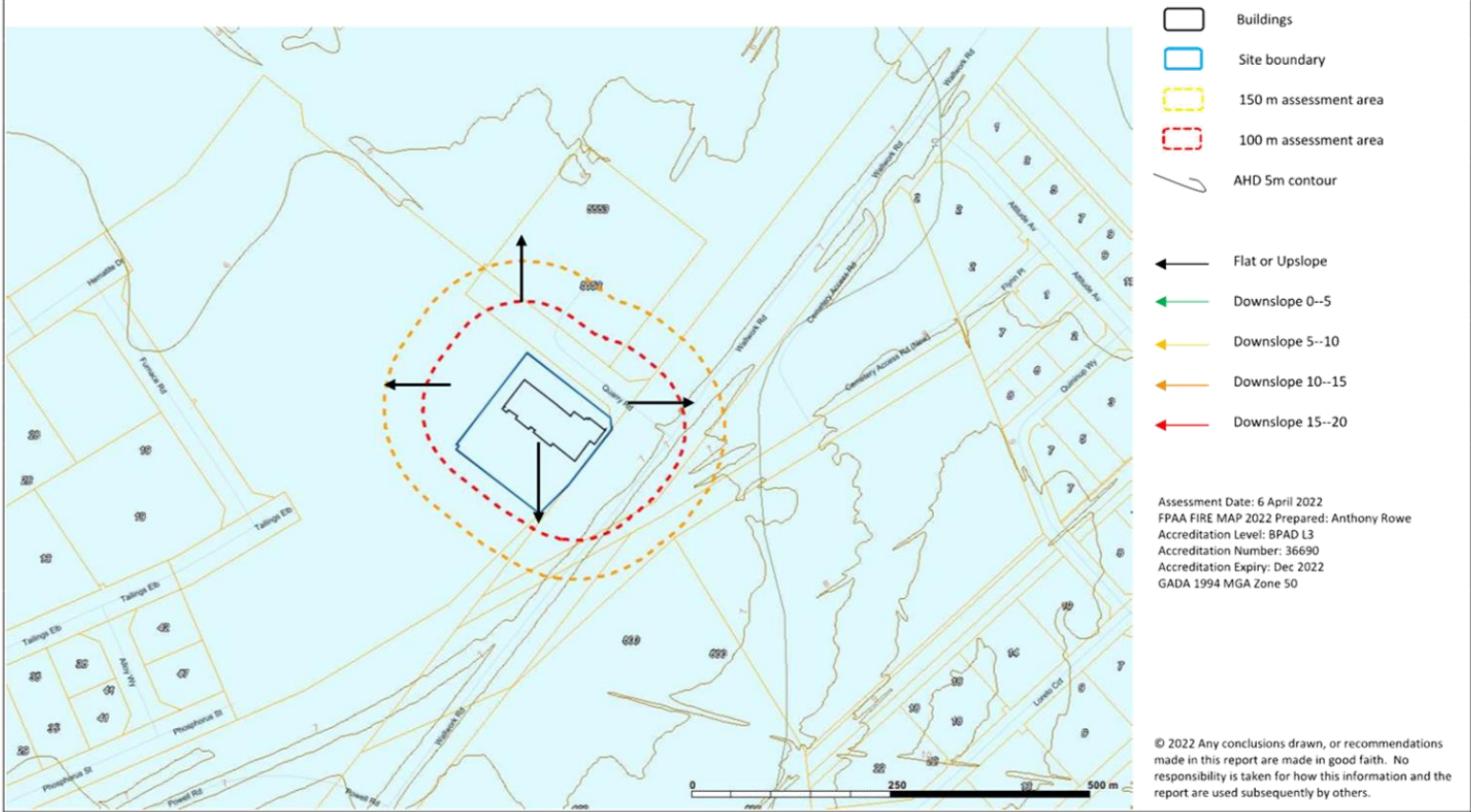
Figure 1: Location



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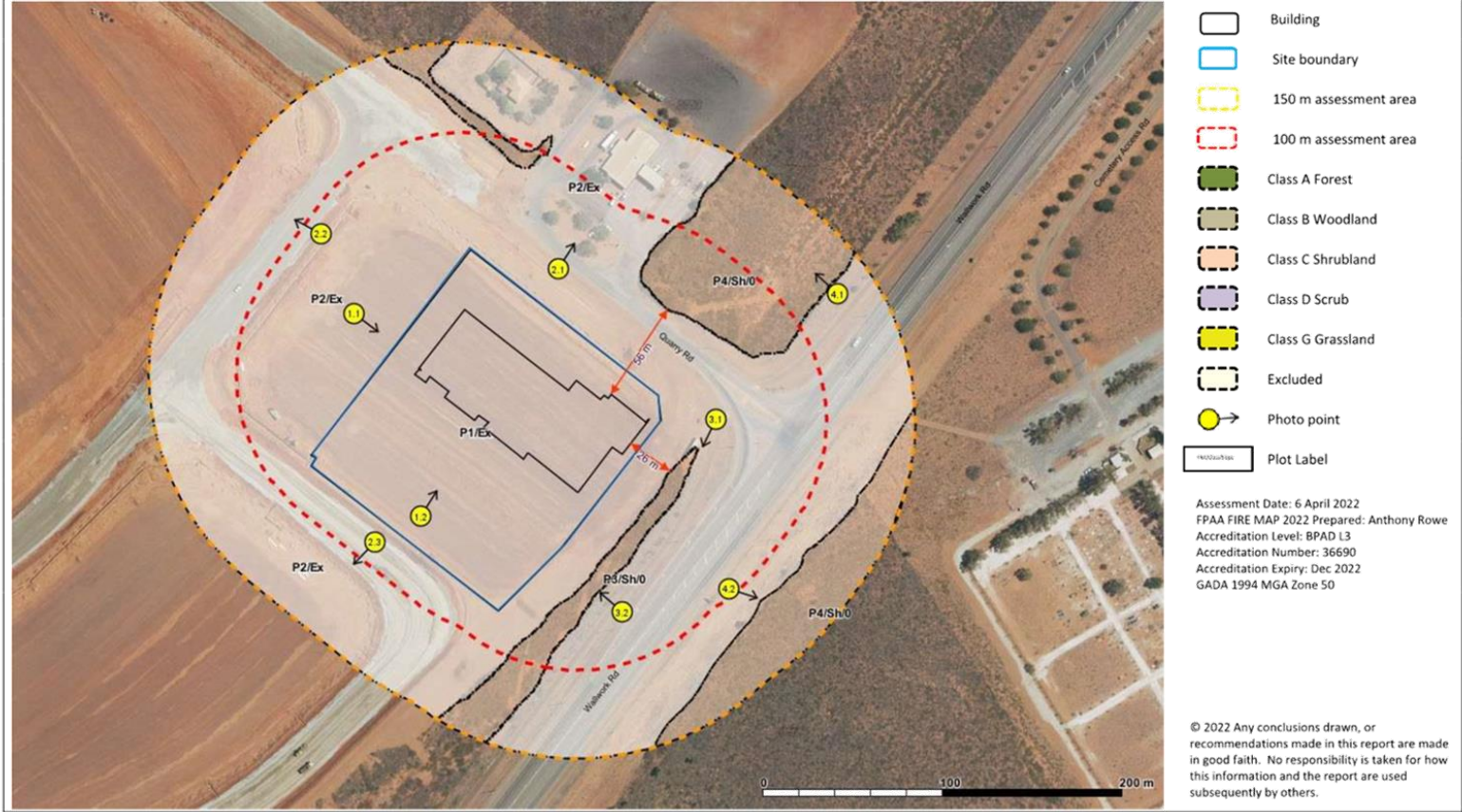
Figure 2: Topography





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Figure 3: Vegetation Classification



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PLOT: 1					
Vegetation Classification		PHOTO ID: 1.1		PHOTO ID: 1.2	
Excludable - 2.2.3.2(e) Non Vegetated Areas					
Slope					
Upslope					
Description (AS 3959)					
2.2.3.2 Exclusions – Low threat vegetation and non-vegetated areas					
e) Non-vegetated areas, that is, areas permanently cleared of vegetation, including waterways, exposed beaches, roads, footpaths, buildings and rocky outcrops.					
Observation/Justification for classification		PHOTO ID: 1.3		PHOTO ID: 1.4	
Fuel Hazard	Surface	Near surface	Elevated	Bark	
Low	✓	✓	✓	✓	
Moderate					
High					
Very High					
Extreme					
Post development					
The site is to be developed/retained as a low threat area.					
Comment: The site is clear of vegetation an comprises a cleared surface.					

PLOT: 2					
Vegetation Classification		PHOTO ID: 2.1		PHOTO ID: 2.2	
Excludable - 2.2.3.2(e) Non Vegetated Areas					
Slope					
Upslope					
Description (AS 3959)					
2.2.3.2 Exclusions – Low threat vegetation and non-vegetated areas					
e) Non-vegetated areas, that is, areas permanently cleared of vegetation, including waterways, exposed beaches, roads, footpaths, buildings and rocky outcrops.					
Observation/Justification for classification					
Fuel Hazard	Surface	Near surface	Elevated	Bark	
Low	✓	✓	✓	✓	
Moderate					
High					
Very High					
Extreme					
Post development					
Adjoining area is retained for commercial industrial land use.					
Comment: the adjoining land has been cleared of vegetation, siteworks prepared ready for industrial development.					

PLOT: 3					
Vegetation Classification		PHOTO ID: 3.1		PHOTO ID: 3.2	
Class C Shrubland - Low shrubland C-12		 <p>North East Elevation 20°22'30"S, 118°36'27"E x 16m ▲ 32m</p>		 <p>South East Elevation 20°22'34"S, 118°36'24"E x 16m ▲ 30m</p>	
Slope					
Flat					
Description (AS 3959)					
<p>Shrubs <2 m high; greater than 30% foliage cover. Understoreys may contain grasses. Acacia and Casuarina often dominant in the arid and semi-arid zones</p>					
Observation/Justification for classification					
Fuel Hazard	Surface	Near surface	Elevated	Bark	
Low	✓		✓	✓	
Moderate		✓			
High					
Very High					
Extreme					
Post development					
Shrubland to be retained					
Comment: Narrow shrubland swale south of the site. Shrubs less than 2 m tall.					

PLOT: 4					
Vegetation Classification		PHOTO ID: 4.1		PHOTO ID: 4.2	
Class C Shrubland - Low shrubland C-12					
Slope					
Flat					
Description (AS 3959)					
<p>Shrubs <2 m high; greater than 30% foliage cover. Understoreys may contain grasses. Acacia and Casuarina often dominant in the arid and semi-arid zones</p>					
Observation/Justification for classification					
Fuel Hazard	Surface	Near surface	Elevated	Bark	
Low	✓		✓	✓	
Moderate		✓			
High					
Very High					
Extreme					
Post development					
Shrubland to be retained					
Comment: Shrubland east and south of the site separated from the site by a public road.					

**POTENTIAL BUSHFIRE IMPACT - Outputs**

In accordance with SPP 3.7, a BAL Contour Map has been prepared to illustrate the potential radiant heat impacts and associated BAL ratings for the facility.

Table: 2.1

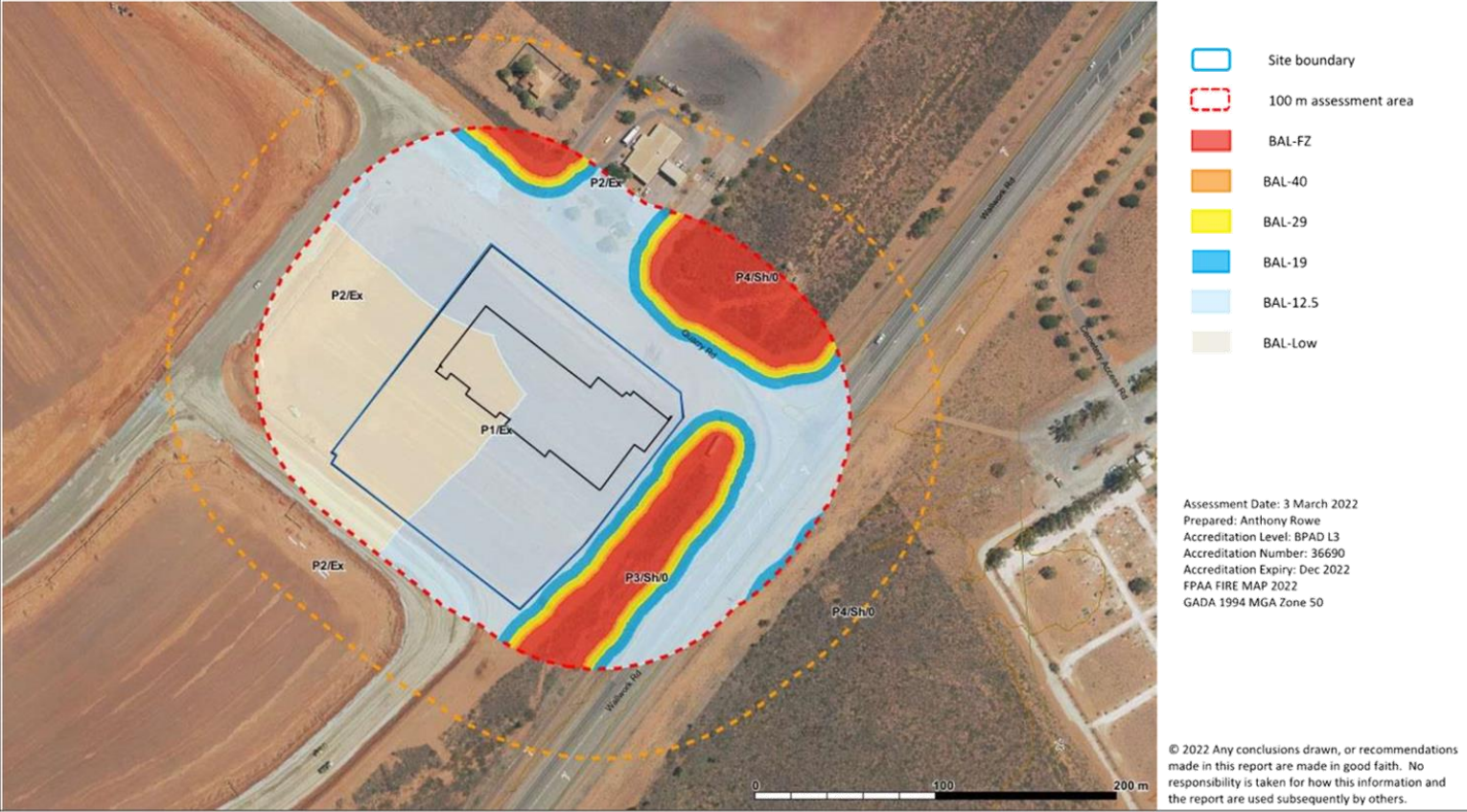
Manufacturing Facility

Plot no.	Vegetation Classification	Effective slope	Separation m	BAL
1	Excluded	Flat/Upslope	N/A	BAL -Low
2	Excluded	Flat/Upslope	N/A	BAL - Low
3	Shrubland	Flat/Upslope	26 m	BAL – 12.5
4	Shrubland	Flat/Upslope	56 m	BAL – 12.5

The BAL level at the Workshop/Office facility is BAL-12.5. The BAL contours are illustrated in Figure 4.



Figure 4: BAL Contour



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4. IDENTIFICATION OF BUSHFIRE HAZARD ISSUES

Bushfire Behaviour

Sustainable fire combustion depends upon the availability of fuel, oxygen, and heat. Removal of any one of the three aspects will extinguish or not sustain a fire. Fuel management, the management of vegetation, is the most practical means of control.

Bushfire behaviour, as it increases in intensity and speed of travel, can exceed human control measures and when this occurs the risk increases to humans and property. Bushfire behaviour is a result of climate, topography, and the availability of bushfire fuel (vegetation).

- Climate (drought and season) & weather (temperature, humidity, wind, atmospheric instability).

Wind

Bushfires are influenced by the wind direction and the speed. The wind direction generally determines the direction of the fire and wind speed, along with ground slope, generally determines the speed a fire will travel over ground. As wind strength increases it increases the availability of oxygen allowing the fire intensity to increase.

Atmospheric conditions determine the potential for the uplift of embers and particles that can be distributed by the prevailing wind direction well ahead of the fire, up to 9 km, to create spot fires that can advance the location of the fire front.

Fire Danger Index FDI

FDI is an indicator of potential fire intensity and behaviour based upon weather conditions; temperature, humidity, and wind speed, together with climate measures, drought factor representing the dryness of the ground fuels.

The FDI is an indicator of the potential for house loss and fatalities.

The FDI is used as a basis for determining the required design performance of a building.

- Topography (slope of the ground, aspect) – fire travels faster uphill, and in some conditions may determine the direction of the fire. The landform can also channel and increase the windspeed at a locality and create turbulence. It is measured as 0.0° or in slope increments of 5.0°.
- Vegetation (horizontal and vertical structure, flammability, mass, and availability). Measured as a vegetation classification, or an exclusion, in AS 3959 (Method 1). The arrangement of fuel has a greater effect upon the intensity of a fire than just its mass; its exposure to oxygen is referred to as its availability in a bushfire.

It is assumed that a bushfire will achieve a steady-state and be fully developed to maximum intensity over a 100 m (minimum) fire run. Grass fires travel faster (GFDI) than a forest canopy fire, but a forest canopy fire can eject a higher level of embers and also eject them over a greater distance, up to 5 km.

Crown fires occur when the ground fire is intense, and conversely, when ground fuels are managed, the resultant fire intensity may not be sufficient to involve the crown or sustain a fire.

Fuel reduction initiatives such as slashing and controlled burns are intended to reduce the fuel availability to a level where the intensity of the fire remains controllable.

Climate

The nearest weather station to the site is at Port Hedland 7 km west of the site.

The Bushfire Danger Season has traditionally been between November and April each year, but recent climatic conditions have caused fire danger conditions to be present either side of this period.



Severe bushfire conditions FDI 50+, occur mostly between October and February. Extreme and Catastrophic conditions occur mostly in the afternoon and typically with a strong north west direction (BoM Port Hedland). A bushfire can however come from any direction.

The wind roses below (Plates 6 and 7) for November (averaged) recorded at 9 am and 3 pm. illustrate the winds are strongest and most frequent from the east in the morning. Afternoon winds are generally stronger and of higher frequency from the south west, with a westerly component.

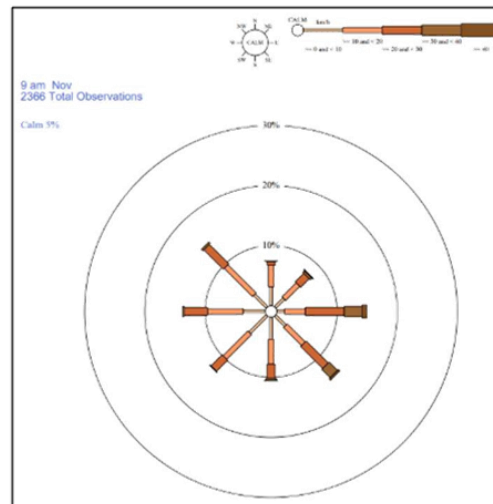


Plate 6: BoM weather data, prevailing wind directions as at 9 am

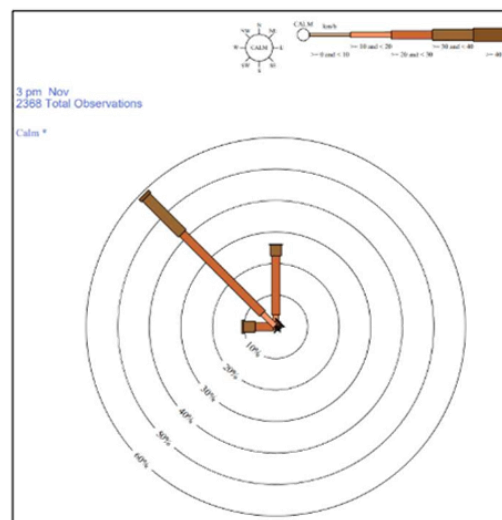


Plate 7: BoM weather data, prevailing wind directions as at 3 pm

Site Context



Plate 8: Illustrates the surrounding area within 5 km is predominantly Shrubland

DBCA fire history last year burnt

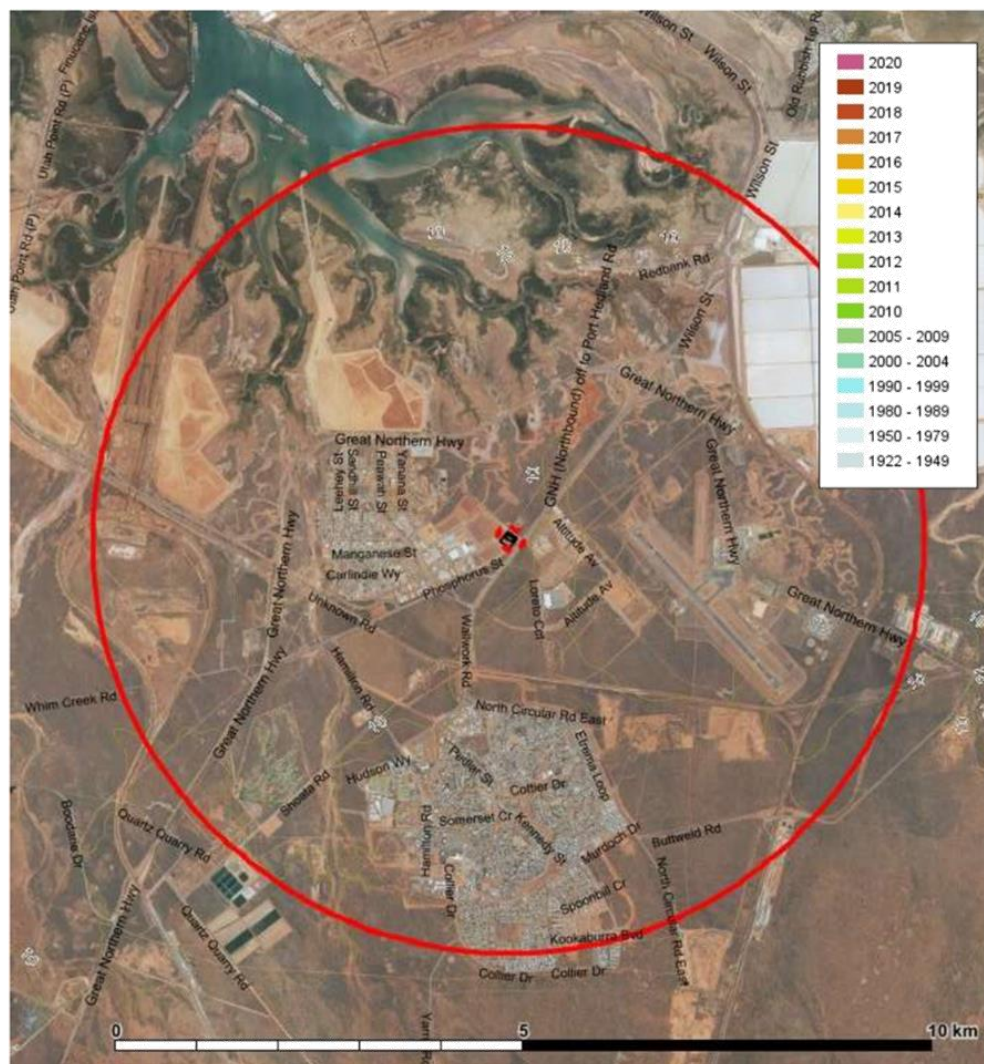


Plate 9: Illustrates no landscape fire history has been recorded in the area (indicative only due to inaccuracies in historic reporting)

The fire history identifies the site has not been affected by a landscape fire, the likelihood is therefore classed as rare (National Emergency Risk Assessment Guideline (NERAG 2020)).

The site is within a comparatively level area, not expected to cause anomalies in the fire behaviour. Bushfire fuels (shrub) is expected to be retained to the north, east and south.

The site is separated from direct flame contact but may be affected by a dispersed ember attack from fires through shrub.

The consequence given the masonry construction is expected to be insignificant (NERAG – cause no extended delay in operation) unless the building is open during the event to enable embers to ignite flammable materials inside or if flammable materials are stored adjacent to opening (windows and doors) that if ignited could overwhelm the resistance of the adjacent material.



5. BUSHFIRE PROTECTION MEASURES

5.1 Guidelines for Planning in Bushfire Prone Areas Version 1.4 (the Guidelines)

The Guidelines apply to development applications located within designated bushfire prone areas. The Guidelines provide supporting information for implementation of SPP 3.7. Specifically, they provide the Bushfire Protection Criteria to be addressed for all applications.

5.2.1 Bushfire Protection Criteria

The bushfire risk mitigation strategies detailed in (Table 2 below) are designed to comply with the Bushfire Protection Criteria detailed in Guidelines for Planning in Bushfire Prone Areas Version 1.3 (the Guidelines) Appendix 4 (WAPC, 2017).

Where discrepancy occurs between State and Local bushfire planning provisions, the higher standard of mitigation has been selected.

**Table 2: Bushfire Protection Criteria assessment.**

For each of the elements listed within Appendix 4 of the Guidelines for Planning in bushfire-prone areas (V1.4), the 'intent' must be achieved either by the proposal meeting the acceptable solutions; or where these acceptable solutions cannot be fully met, then by a performance-based solution that can achieve the 'intent.'

The following table also follows Guidelines for Planning in bushfire-prone areas (V1.4) which now list certain items to be considered in a development application, as distinct from a Strategic document or a subdivision proposal.

✓	Acceptable solution provided	C	An Acceptable Solution to be conditioned
N/A	Not Applicable	P	Performance Principle solution see 5.2

Bushfire Protection Criteria	Method of Compliance	AS	PP	Proposed Bushfire Management Strategies
Element 1: location To ensure that strategic planning proposals, subdivision, and development applications are located in areas with the least possible risk of bushfire to facilitate the protection of people, property, and infrastructure	A1.1 Development location The strategic planning proposal, subdivision, and development application is located in an area that is or will, on completion, be subject to either a moderate or low bushfire hazard level, or BAL-29 or below.	✓		The site is within an area that is predominantly low shrubland which is a moderate bushfire hazard level (compliant). The Acceptable Solution for Element 1 can be achieved by satisfying Element 2, 'to ensure the potential radiant heat impact of a bushfire does not exceed 29kW/m ² (BAL-29) in all circumstances'. The site is entirely less than a BAL level of BAL 29. <u>Development Response</u> Compliance acknowledged.



Bushfire Protection Criteria	Method of Compliance	AS	PP	Proposed Bushfire Management Strategies
Element 2: Siting and Design To ensure that the siting and design of development minimises the level of bushfire impact	A2.1 Asset Protection Zone Every habitable building is surrounded by, and every proposed lot can achieve, an APZ depicted on submitted plans, which meets the following requirements: <ul style="list-style-type: none"> Width: Measured from any external wall or supporting post or column of the proposed building, and of sufficient size to ensure the potential radiant heat impact of a bushfire does not exceed 29kW/m² (BAL-29) in all circumstances. Location: the APZ should be contained solely within the boundaries of the lot on which the building is situated, except in instances where the neighbouring lot or lots will be managed in a low-fuel state on an ongoing basis, in perpetuity (see explanatory notes). Management: the APZ is managed in accordance with the requirements of 'Standards for Asset Protection Zones.' (see Schedule 1). 	C		The Acceptable solution A2.1 requires that the development site can achieve on completion a BAL not exceeding BAL-29, by an APZ within the boundaries of the lot. The site will be established and maintained as low threat: buildings and paved surfaces. The site upon completion and through operation is considered a low threat. Fuel stores have been located within a BAL Low area. <u>Development Response</u> Compliance acknowledged.
Element 3: Vehicular Access To ensure that the vehicular access serving a subdivision/ development is available and safe during a bushfire event	A3.1 Public roads The minimum requirements under this acceptable solution are applicable to all proposed and existing public roads. Public roads are to meet the minimum technical requirements in Table 6, Column 1. The trafficable (carriageway/pavement) width is to be in accordance with the relevant class of road in the Local Government Guidelines for Subdivisional Development (IPWEA Subdivision Guidelines), Liveable Neighbourhoods, Aust Road standards and/or any applicable standards for the local government area.	N/A		The public road providing the primary access to Quarry Road (through road) is compliant with the technical requirement for construction in Table 6, Column 1. Quarry Road connects to Wallwork Road which is a through road and part of the heavy vehicle road network. <u>Development Response</u> Compliance acknowledged.



Bushfire Protection Criteria	Method of Compliance	AS	PP	Proposed Bushfire Management Strategies
	A3.2a Multiple access routes Public road access is to be provided in two different directions to at least two different suitable destinations with an all-weather surface (two-way access). If the public road access to the subject site is via a no-through road which cannot be avoided due to demonstrated site constraints, the road access is to be a maximum of 200 metres from the subject lot(s) boundary to an intersection where two-way access is provided. The no-through road may exceed 200 metres if it is demonstrated that an alternative access, including an emergency access way, cannot be provided due to site constraints and the following requirements are met: the no-through road travels towards a suitable destination; and the balance of the no-through road, that is greater than 200 metres from the subject site, is wholly within BAL-LOW, or is within a residential built-out area – Figure 23	✓		Quarry Road is a through road servicing the industrial estate north west of the site. Quarry Road connects to Wallwork Road which is a through road and part of the heavy vehicle road network. <u>Development response</u> Compliance acknowledged.
	A3.2b Emergency access way Where it is demonstrated that A3.2a cannot be achieved due to site constraints, or where an alternative design option does not exist, an emergency access way can be considered as an acceptable solution. An emergency access way is to meet all the following requirements: requirements in Table 6, Column 2; provides a through connection to a public road; be no more than 500 metres in length; and must be signposted	N/A		The proposal has not relied upon an Emergency Accessway for compliance. <u>Development response</u> Compliance acknowledged.



Bushfire Protection Criteria	Method of Compliance	AS	PP	Proposed Bushfire Management Strategies
	<p>A3.6 Private driveways</p> <p>There are no private driveway technical requirements where the private driveway is: within a lot serviced by reticulated water; no greater than 70 metres in length between the most distant external part of the development site and the public road measured as a hose lay; and accessed by a public road where the road speed limit is not greater than 70 km/h. In circumstances where all of the above conditions are not met, or the private driveway is in a non-reticulated water area, the private driveway is to meet all the following require: requirements in Table 6, Column 4; passing bays every 200 metres with a minimum length of 20 metres and a minimum additional trafficable width of two metres (i.e. the combined trafficable width of the passing bay and constructed private driveway to be a minimum six metres); and turn-around area as shown in Figure 28 and within 30 metres of the habitable building.</p>	✓		<p>The site on completion is a hardstand area and a Perimeter Vehicle Access (PVA) of 18 m has been provided around the manufacturing facility.</p> <p>The hardstand area should be marked for heavy vehicle manoeuvring routes including maintaining a clearance from on site hydrants to maintain their availability.</p> <p>(Hydrants are to be clearly identified and accessible – as addressed by the <i>Building Act 2011</i>)</p> <p><u>Development response</u></p> <p>Conditioned - access to be maintained in accordance with Table 6 column 4 and vehicle manoeuvring area be clearly identified and remain un obstructed at all times (i.e. avoid the storage of materials in the PVA).</p>



Bushfire Protection Criteria	Method of Compliance	AS	PP	Proposed Bushfire Management Strategies
Element 4: Water To ensure that water is available to enable people, property and infrastructure to be defended from bushfire	A4.2 Provision of water for firefighting purposes Where a reticulated water supply is existing or proposed, hydrant connection(s) should be provided in accordance with the specifications of the relevant water supply authority. Where these specifications cannot be met, then the following applies: The provision of a water tank(s), in accordance with the requirements of Schedule 2; and Where the provision of a strategic water tank(s) is applicable, then the following requirements apply: – land to be ceded free of cost to the local government for the placement of the tank(s); – the lot or road reserve where the tank is to be located is identified on the plan of subdivision; – tank capacity, construction, and fittings, provided in accordance with the requirements of Schedule 2; and – a strategic water tank is to be located no more than 10 minutes from the subject site (at legal road speeds). Where a subdivision includes an existing habitable building(s) that is to be retained, a water supply should be provided to this existing habitable building(s), in accordance with the requirements listed above.	✓		The site has access to a reticulated water supply and firefighting hydrants are to be provided following the requirement of the <i>Building Act 2011</i> , to address a structural fire. The site is a low threat, not placing demands upon the placements of the hydrants. In this instance the consequence of a bushfire is the potential to cause a structural fire. <u>Development response</u> Compliance acknowledged.



5.2 Bushfire Management Strategies

No further bushfire management strategies to those addressed under the bushfire protection criteria are required.

It would be prudent for the applicant to adopt BAL 29 construction measures in the buildings to protect from the radiant heat and ember attack. This advice has been provided but it is at the discretion of the applicant to pursue.

5.3 Spatial representation of the bushfire management strategies

Further to the assessment against the bushfire protection criteria, the key features demonstrating compliance should be represented spatially in the *Spatial representation of the bushfire management strategies*. It represents the required bushfire risk management measures that must be implemented and maintained.

The Spatial representation of the bushfire management strategies is provided in Figure EX1.



6. RESPONSIBILITIES FOR IMPLEMENTATION AND MANAGEMENT OF THE BUSHFIRE MEASURES

The details contained within the planning application authorised by the responsible decision maker are enforceable under section 214 of the *Planning and Development Act 2005*.

The Advisory Notes **do not** form part of the Development Proposal and are not enforceable.

Owner

- | | |
|---|---------------------------------|
| 1. The site will be maintained consistent with the description of low threat provided in AS 3959:2018 at cl. 2.2.3.2 (e). Amenity landscaping that may be undertaken on the site should have regard to the spatial arrangement described in the Asset Protection Zone standard (Guidelines for Planning in Bushfire Prone Areas V1.4). | Prior to occupation and ongoing |
| 2. Vehicle movement areas within the site access are to be provided in accordance with the technical requirement in Table 6 column 4 (Guidelines for Planning in Bushfire Prone Areas V1.4) to be clearly identified and remain unobstructed at all times (i.e. avoid the storage of materials and obstruction in the PVA and obstruction of access to hydrants). | Prior to occupation and ongoing |

Notifications

- | | |
|---|---------------------|
| 1. A notification, pursuant to Section 165 of the Planning and Development Act 2005, is to be placed on the certificate(s) of title of the proposed lot(s) with a Bushfire Attack Level (BAL) rating of 12.5 or above, advising of the existence of a hazard or other factor. | Prior to occupation |
|---|---------------------|

Notice of this notification is to be included on the diagram or plan of survey (deposited plan). The notification is to state as follows:

"This land is within a bushfire prone area as designated by an Order made by the Fire and Emergency Services Commissioner and is/ may be subject to a Bushfire Management Plan. Additional planning and building requirements may apply to development on this land"

Advisory notes

1. It is at the applicant's discretion to construct the building to incorporate the BAL construction standards applicable to the BAL at the location of each building where a higher fire resistance level is not provided by the *Building Act 2011/NCC 2019*. Particular regard may be given to the construction, to avoid the potential for ember attack, by avoiding gaps >2mm in the external surfaces and combustible material less than 400 mm above the ground.
2. The landowner acknowledges their duty of care to protect any visitors to the site from harm, from a bushfire affecting the property and for the safe direction of evacuation from the site
3. The landowner acknowledges the placement of flammable objects within close proximity to a building may expose the building to a direct flame contact that may result in the ignition of the building.
4. The landowner is responsible for availing themselves of any promotions and information to assist owners in preparing for and responding to a bushfire event as may be made by the Town of Port Hedland or the Department Fire and Emergency Services.
5. Where there is conflict between this Bushfire Management Plan and the Town Firebreak Notice the higher level of bushfire protection will prevail.



APPENDIX 1 – REFERENCES

ENVISION BUSHFIRE PROTECTION BUSSELTON I PERTH
E: admin@envisionbp.com.au T: 0428 066 147

**GENERAL REFERENCES**

SA Department of Environment and Natural Resources, Government of South Australia, 2012 *Overall Fuel Hazard Guide for South Australia*

Standards Australia, *AS 3959:2018 Construction of buildings in bushfire-prone areas*, Sydney

Western Australian Planning Commission (WAPC) *Position Statement: Planning in bushfire prone areas – Demonstrating Element 1: Location and Element 2: Siting and design* November 2019

WA Department of Planning Land and Heritage 2016, *Visual Guide for bushfire risk assessment in Western Australia*

Western Australian Planning Commission (WAPC) 2015, *State Planning Policy 3.7 Planning in Bushfire Prone Areas*, Western Australian Planning Commission, Perth, Perth

Western Australian Planning Commission and Department of Fire and Emergency Services (WAPC and DFES) 2017, *Guidelines for Planning in Bushfire Prone Areas Version 1.4*, Western Australia

Online references

Office of Bushfire Risk management (OBRM), Map of Bush Fire Prone Areas, viewed February 2022, <
<https://maps.slip.wa.gov.au/landgate/bushfireprone/>>



Port Hedland Visitors Centre

Quarterly Report
October – December 2021

Report Prepared by
JULIE ARIF and NINA PANGAHAS

Report Date: 28 January 2022



Port Hedland
VISITOR CENTRE

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1. Income and expenditure statements

The operating cost of the Visitors Centre has been within the parameters laid out in the contract.

The wages and salaries for the year have been in the parameters of the budget.

1.1. Statement of Variations

Nothing to report.

1.2. Audited Income Expenditure Statements

Nothing to report.

2. Statement of Capital Expenditure and Maintenance Items

2.1. Capital Expenditure Capital Expenditure Maintenance Items

Project/ Capital Work	Contractor	Start Date	End Date	Budget
Nothing to report.				

2.2. Maintenance Items

Date Reported	Issue	Contractor	Date Rectified	Notes
October	Deep coil cleans to Server Room AC and Main Entrance AC. Also unblocked Server Room drain.	Oresome Air	20/10/2021	

3. Key Performance Indicators

- 15,000 visitors supported through the Visitor Centre
- 1000 people hosted on formal tours operated through the Visitor Centre
- Gold/A1 Tourism accreditation maintained (or equivalent)
- Development of a web presence and digital strategy to educate and attract visitors to the local area
- Development and distribution of up-to-date tourism documents promoting Port Hedland and the Pilbara region.
- Execution of a program to greet and engage Cruise Ship visitors that also engages local businesses and community organisations.

4. Statement of Marketing Activities, Programs, and Initiatives

4.1. Statement of Marketing Expenses

Refer to financial statements.

4.2. Programs and Initiatives

The weather started to warm up, visitor numbers have declined, and tour operator, Pilbara Tours, headed back south for the summer and Christmas break.

At this time of the year, the main clients to the Visitor Centre were residents.

Wedge Street Footpath Markets.

The markets continue to grow in popularity with the number of stalls and attendees increasing even after the peak of the tourist season. Many residents have now got into the habit of attending the monthly markets and browsing the businesses that are open on that day. Community feedback was positive.

Date	Stalls	Attendees (Approx.)
18 April	8	400
16 May	7	600
20 June	7	950
18 July	9	500
15 August	7	500
19 Sept	18	600
17 Oct	19	800-1,000
12 Nov		1,500 – 2,000

The markets have consistently increased visitation to the Centre; the highest recorded visitation being on the 17th of October during the week-long Heritage Festival (618 walk in visitors) and on 12 November (833) as part of the Port side Christmas Festival led by The Junction and Courthouse Gallery + Studio.

A comparative walk-in traffic before and after the market is shown below:

Day before	Market Day	Day after
17 April – 36	18 April - 152	19 April - 40
15 May – 91	16 May - 158	17 May - 99
19 June - 144	20 June - 278	21 June - 182
17 July - 179	18 July - 356	19 July 240
14 Aug – no data	15 Aug – no data	16 Aug – no data
18 Sept – no data	19 Sept – no data	20 Sept – no data
16 Oct - 49	17 Oct - 618	18 Oct - 74
11 Nov - 83	12 Nov - 833	13 Nov - 69

125 years of Port Hedland – Port Hedland Heritage Festival held on 16-22 October

A week-long celebration led by the Port Hedland Historical Society was held from 16-22 October 2021.

On 17 October, a larger than usual Wedge Street Footpath Market was held to celebrate the 125th birthday of Port Hedland. The Visitor Centre organised 4 events over a period of 10 days with the assistance of a community grant of \$2,500 from FMG and financial assistance from the Port Hedland Historical Society. Attendance over the 4 events at the Visitor Centre was approximately 1,500.

The market included parade of nations, cake cutting, and various kids entertainment. It created a fantastic community birthday party feel with balloons, cake, music, and party games for families to enjoy. In kind support came from Deputy Mayor Renae Coles who assisted in donating gifts for the prizes and in supplying character costumes and volunteers to wear them to create a fun party atmosphere. Children participated in a treasure hunt and visited all the stalls and businesses in the area and had their treasure card stamped to get a prize. Stallholders, businesses, parents, and children all enjoyed getting around to stalls and businesses that they might have overlooked without the treasure hunt. A huge birthday cake for Port Hedland was cut after the children all sang “Happy Birthday Port Hedland” and was distributed to the community attending the markets.

Also, during the week of the Festival, the Hedland Maritime Initiative and Pilbara Ports Authority held kids in-colouring competition and all entries were on public display at the Hedland Maritime Initiative office on the same day as the market. The Hedland Maritime Initiative office is located next to the Visitor Centre. The entries and the maritime displays contributed to the festivities and attracted community interests.



Parade of Nations

As part of the Wedge Street Footpath Market, the Visitor Centre organised the Parade of Nations to parade up Wedge Street from Dalgety House Museum to showcase the broad ethnic population of Port Hedland. The event was colourful with majority of the 25 participants waving the flags of their birth country. Countries represented included Turkey, Australia, USA, Ireland, Wales, Czechoslovakia, Poland, Sri Lanka, Philippines, Thailand, Yugoslavia, South Africa, and Italy.

**Port Hedland Then and Now exhibition**

The Visitor Centre, in collaboration with Hedland Camera Club, also put together a Now and Then Photographic exhibition; the opening night was held on 19 October followed by another night event on 20 October where Julie Arif shared her knowledge of the history of the town. Fifteen guests attended the opening night. Many thanks to Stuart Bell for coordinating the 2021 photos of Port Hedland. Thanks to the FMG grant which covered the cost of printing, mounting, and freighting the photos to Port Hedland. The exhibition was on show for 10 days and had a great response from all that viewed it and it generated a great deal of discussion about Port Hedland's past. It also had good exposure on Facebook.



A Brief History of Port Hedland

On Tuesday, 19 October, a visual and oral presentation was delivered to an audience of 25 people. The 1.5hr presentation showcased a timeline of Port Hedland's history from the original people – the Karriyarra people to this date in time 22 October 2021. Photos on the big screen were shared with the story of significant events that have shaped the town.

Port side Christmas Festival

This event was led by The Junction and Courthouse Gallery + Studio.

The November Wedge Street Footpath market was held in collaboration with The Junction and Courthouse Gallery +Studio to create the portside Christmas Festival that saw the West end come alive with the Christmas spirit. The Visitor Centre organised non "makers" market stalls along Wedge Street, music by Jan Gillingham and her music students, a roaming Santa, and the Find Santa Treasure Hunt for children. Estimated attendance was 1,500- 2,000 across the whole precinct with the door count at the Visitor Centre getting to 881 on that night.



Funky Christmas tree comp

For the third consecutive year, the Visitor Centre has organised the Funky Christmas Tree promotion to encourage businesses in Port Hedland to create a tree of interest that reflects the nature of their business. This year, 11 entries were received across the town with some very creative trees submitted. Voting attracted 286 votes for the favourite tree which was Pilbara Tools and Fasteners tree built out of the boxes with their products in them.

NWT Pick up Point

The Visitor Centre have agreed to be the pickup point for the weekly newspaper, the North West Telegraph as they currently do not have anyone to distribute the paper.

Santa's Mailbox

A Santa letterbox at the Visitor Centre was promoted to increase local visitation to the Visitor Centre. A total of 30 letters were received with personal replies sent to the letter writers.

KTA Tourism workshop held on 8 November

Julie Arif attended the workshop with WA Tourism to have some input with the strategic planning for tourism in WA, in particular tourism in the Pilbara.

Portside meeting/activities led by the The Junction

Julie Arif attended meeting on 26 October. John Hague also attended meeting/event.

Turtle daytime nesting tour and Reef walk

At this time of the year tours and tourists are very sparse. There are limited tours available which have been the free Care for Hedland Turtle Tours/ Daytime Nesting tours and hatchling tours. Free guided reef walks with Doris Teufel continued until the weather got too hot. The Visitor Centre have been facilitating these activities for the last 3 years by promoting the events and taking bookings for the nesting tours.

Thank you function

The Visitor Centre and Pilbara Tours hosted a Thank you function for the supporters, sponsors, and stakeholders which was held at the Dalgety House Museum Gardens on 6 October.

Media

Julie Arif attended the following interviews.

- 2 November interview with North West Telegraph re Visitor Centre activity for 125 birthday
- 2 Nov interview with Triple M re upcoming VC activities
- ABC Northwest WA re celebrating Christmas in Port Hedland - decorations, Funky Christmas tree

Pilbara Tourism Association (PTA) Annual General meeting

The Visitor Centre through John Hague hosted the PTA AGM, which was held at The Hub, Port Hedland Chamber of Commerce on 17 November.

Christmas hampers for the Seafarers

Staff from the Visitor Centre assisted in the yearly event of putting together 3,000 hampers for the seafarers for distribution on Christmas day.

COVID19 Policy

A policy has been approved in accordance with the government's public health orders.

Organisational change

John Hague has resigned from the Seafarers Centre effective 18 December 2021. John has remained connected with the Pilbara in his new role.

Book exchange

Remains available for those who wish to either exchange or buy second-hand books.

Yarning with a local

None held during this quarter.

4.3. Social Media**4.3.1. Facebook**

As in previous quarter, the Facebook audience were mainly women (77%) within the age bracket between 25-34 years old and 35-44 years old. They were from Port and South Hedland (975), Perth (516), Karratha (86), and Broome (43).

The Facebook Page has 2,725 followers.

The number of Australians reached, or those who had any content of Page or about Page entered their screen, was recorded at 12,311, down by about 6,000 compared with the previous quarter of 18,880.

The Visitor Centre delivered a total of 31 posts. The top 5 posts by engagement were those relating to Christmas related events and the announcement about Pilbara Tours' Big Fish Tour being featured at Channel 10.

Refer to Facebook insights for details (**Attachment 1**).

4.3.2. Instagram

Nothing to report

4.3.3. Example

Nothing to report

4.3.4. Membership

Nothing to report.

4.3.5. Products

Nothing to report.

4.3.6. Marketing Material Distribution

On display at the Visitor Centre are current tourism brochures promoting Western Australian tourist destinations, accommodation, services, and local information.

The Visitor Centre will order brochures in the first quarter in preparation for the 2022 tourist season.

5. Accreditation

The Visitor Centre received its Level One Western Australian Visitor Centre Accreditation in March 2020. The Centre is accredited until the end of December 2021. Renewal of accreditation is underway.

6. Visitor Centre Business Plan

The Business Plan will be updated.

7. Cruise Ship Engagement Plan

Subject to government policy due to COVID19 pandemic.

8. Statistics, Visitor Numbers

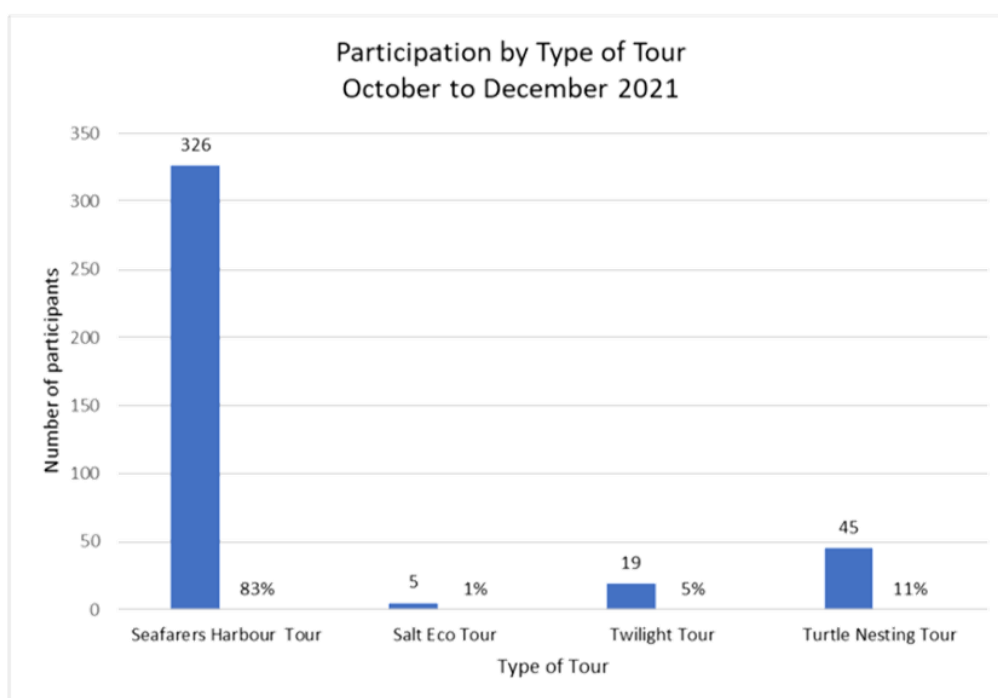
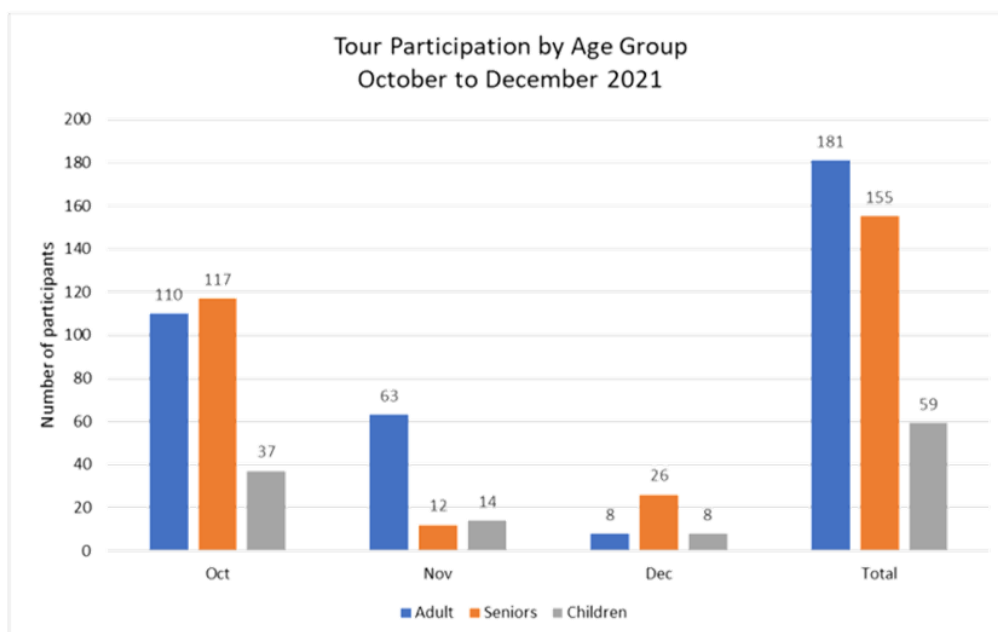
8.1. Tour Numbers

Year	Seafarers Centre Harbour Tour	Seafarers Centre Fortescue Tour	Town Discovery Tour	Salt Eco Tour	Twilight Industry Tour	Turtle Nesting Tour	Total
2019/2020	3676	578		368	572		5,194
2020 (ending 30 October)	937		9	106	403		1,455
	No tours from November 2020 to 31 March 2021 due to cyclone season, holiday closure, and shutdown period. Only corporate or group tours are run on request.						
April to June 2021	405	0	63	72	535		937
July to Sept 2021	1,939	0	77	209	796		3,021
Oct to Dec 2021	326	0	0	5	19	45	395

For this quarter, the Visitor Centre and the Seafarers Centre facilitated a total of 44 tours with a total of 395 participants, consisting of 181 adults (46%), 155 seniors (39%), and 59 children (15%).

The Seafarers Fortescue Tour remains suspended because of COVID19.

Graphs showing tour participation by age group and by type of tour are shown below:



8.2. Visitor Number

The Visitor Centre was closed from 23 December 2021 to 23 January 2022.

As in previous years, the onset of the summer season and Christmas holidays have contributed to the decline in the tourist numbers. Please refer to the next section 8.3 Walk in Traffic. It is worth noting that the Visitor Centre's participation in the Port Hedland Heritage Festival and Sunset Market, which was held in October and November respectively, has increased the visitor numbers on the day each of the event was held (17 October – 618 visitors; 20 October – 121 visitors and 12 November – 833 visitors).

The daily count of walk-in visitors from October to December is shown in **Attachment 2**.

8.3. Walk in Traffic

Month	Number	Daily Average
Oct	3,048	98
Nov	2,273	76
Dec	885	38
TOTAL	6,206	74

Year	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019			9,677	5,022	14,699
2020	4,138	1,984	8,839	3,564	18,525
2021	734	10,077	8,908*	6,206	25,925
Total	4,872	12,061	27,424	14,792	59,149

A snapshot of age groups of visitors from October to December is shown below. The number of older cohorts 60+ remained high in October and as expected it progressively declined in the summer period.

AGE CATEGORY

AGE	OCT	NOV	DEC	TOTAL	In Percent
<20	95	110	48	253	12%
20-30	192	210	81	483	24%
40-50	223	189	105	517	25%
60 +	516	184	81	781	38%
Total	1,026	693	315	2,034	100%

8.4. Telephone Enquiries

Month	Number	Daily Average
Oct	68	2
Nov	57	2
Dec	32	1
TOTAL	157	

Year	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2020	44	124	491	222	881
2021	111	391	468	157	1,016

It should be noted that the telephone enquiries were understated during the peak periods when the reception was busy which prevented recording of all telephone enquiries.

8.5. Email /Digital Mail

Month	Number	Average
Oct	20	
Nov	8	
Dec	2	
TOTAL	30	

Year	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019			46	62	108
2020	32	40	42	15	129
2021	6	40	37	30	113

8.6. Online/Website

Users are those who have initiated at least one session in the selected data range. New users are those who have used the website for the first time during the selected date range.

A comparative illustration of website users is shown below.

Period	Users (%)	Male	Female
Oct-Dec 2020	36%	54%	46%
Jan-Mar 2021	36%	41%	59%
Apr-June 2021	28%	43%	57%
July-Sept 2021	27%	42%	58%
Oct-Dec 2021	33%	41%	59%

In the last 12 months, the website users were consistently women (over 57%).
In terms of age profile, they belong to older cohorts 55-64 years old and 65+ combined. The younger group between 25-34 years old was consistently above 25% of the total website users.

Period	18-24	25-34	35-44	45-54	55-64	65+	Total
Oct-Dec 2020	9%	27%	18%	17%	15%	14%	100%
Jan-Mar 2021	14%	28%	14%	20%	13%	11%	100%
April-June 2021	13%	25%	13%	19%	15%	15%	100%
July-Sept 2021	11%	26%	14%	18%	16%	15%	100%
Oct-Dec 2021	16%	27%	17%	16%	14%	10%	100%

The website users were from Australia (86%), China (5%) and the United States (4%).

The number of users and new users this quarter is lower compared from the previous quarter.

Period	Users	New Users
Oct-Dec 2020	1,776	1,723
Jan-March 2021	1,534	1,511
April-June 2021	3,226	3,187
July-Sept 2021	2,974	2,930
Oct-Dec 2021	1,571	1,538

Refer to **Attachment 3** for Website Analytics.

8.7. Performance of sales against Visitor Numbers and overnight stays.

Nothing to report.

9. Prevailing Marketing Conditions

Due to COVID-19 and travel restrictions, Tourism WA is actively marketing the State to West Australians (intrastate market) and is working closely with each of the Regional Tourism Organisations to encourage Western Australians to go further and explore more of the State. [Intrastate campaigns - Tourism Western Australia](#) Accessed on 07 December 2021. Updates from the WA Tourism are being monitored by email and relevant information are communicated to the staff during staff meetings.

10. Customer Feed Back

10.1. Visitor Book

A compilation of visitors' feedback is shown in **Attachment 4**.

10.2. Online

Refer to item 10.1

10.3. RV Overflow site

The free use of RV Overflow continues to be an asset to tourism in Port Hedland. This comment by one of our visitors highlight the importance of this service:

"We stayed here because of the R.V. camp at racetrack and spent \$750 in town on supplies, fuel and tours. It would have been spent elsewhere if R.V. Camp was not available. Thanks very much!!!"

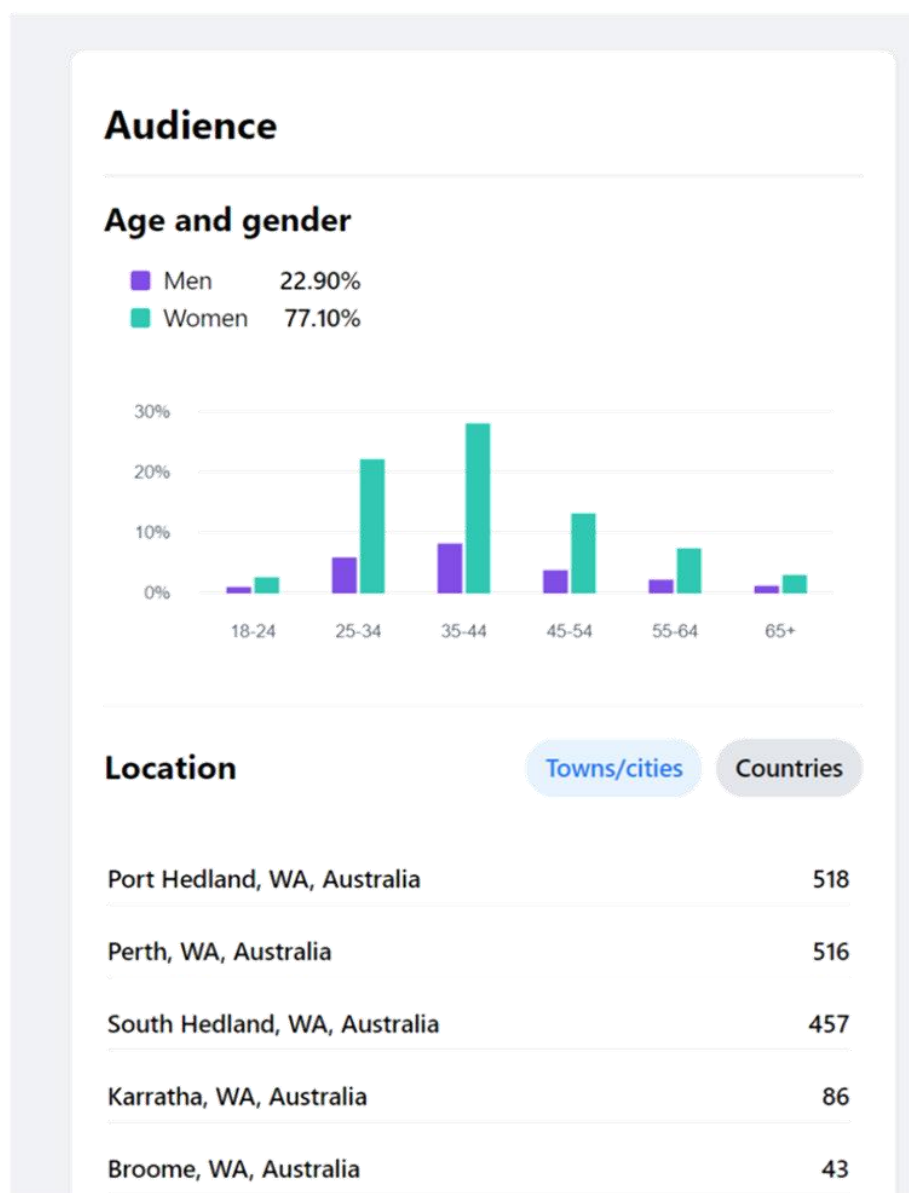
10.4. Tour Feedback

Refer to item 10.1

11. Incident Reports




Nothing to report.

**Attachment 1 – Port Hedland Visitor Centre Facebook insights,
October to December 2021**








Page overview

Discovery

 Post reach	12,311
 Post engagement	4,261
 New Page followers	11

Interactions

 Reactions	192
 Comments	70
 Shares	33
 Photo views	2,465
 Link clicks	393

Other

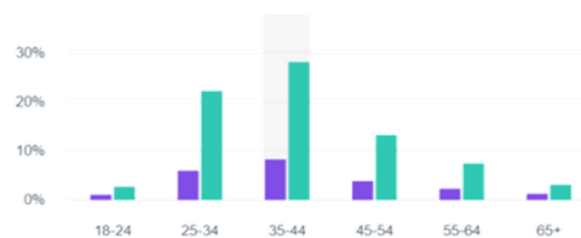
 Hide all posts	1
 Unfollows	0

Audience

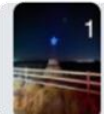
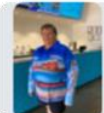



2,725 Facebook followers

Age and gender









 Men 22.90%
 Women 77.10%

















1. Top 5 posts, by engagement










Posts		Last 90 days	Engagement ▾
	The Funky Christmas Trees of Port Hedland are up in businesses around Port Hedland and now w... Tues, 7 Dec	Post reach 8273	Engagement 2308
	Thank you Doris Teufel for supplying the photos for our Port Hedland fishing shirt. These will... Mon, 25 Oct	Post reach 8279	Engagement 824
	Watch All 4 Adventure today (Sunday) at 4pm Channel 10 to see Pilbara Tours show off the Big Fis... Sun, 28 Nov	Post reach 7247	Engagement 655
	Just 31 days till Christmas, and the Port Hedland Visitor Centre has your gift giving covered,... Wed, 24 Nov	Post reach 3122	Engagement 577
	We would like to thank everyone who came along to the Portside Christmas Markets to make it a... Mon, 15 Nov	Post reach 5271	Engagement 400

2. Posts delivered from October to December 2021

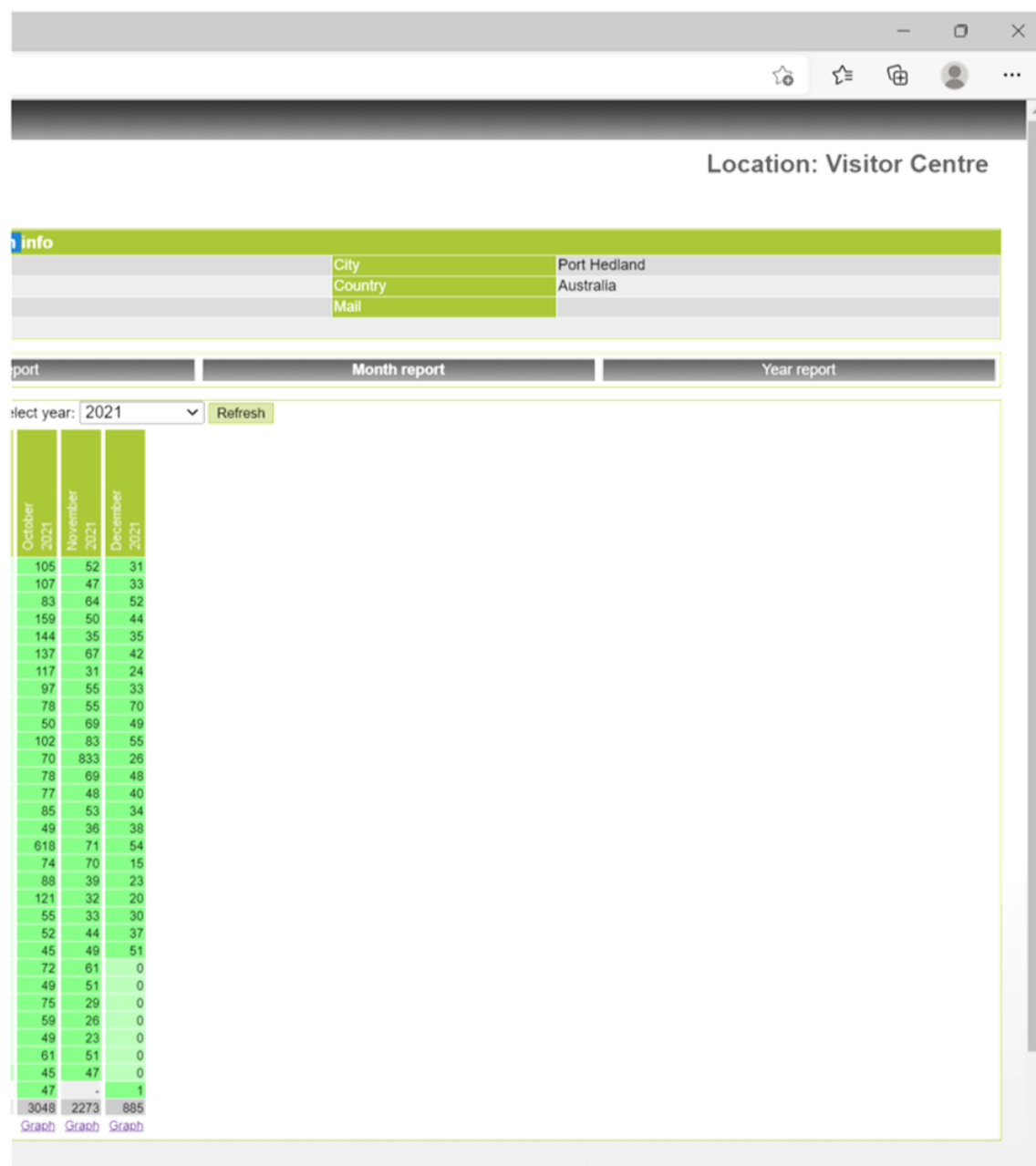
Posts			Last 90 days	Date ▾
	Only a few more days left to vote for the Funkiest Christmas Tree in Port Hedland. Finishes on Mond...	Post reach 2584	Engagement 309	Wed, 15 Dec
	We have forwarded on quite a few letter to Santa through his magic portal letter box here at the Port...	Post reach 224	Engagement 6	Wed, 8 Dec
	46 years ago on this day, the people of Port Hedland were still experiencing one of the worst...	Post reach 918	Engagement 100	Wed, 8 Dec
	The Funky Christmas Trees of Port Hedland are up in businesses around Port Hedland and now w...	Post reach 8273	Engagement 2308	Tues, 7 Dec
	This weeks North West Telegraph is available for pickup from the Visitors Centre now. Drop in, get...	Post reach 1539	Engagement 28	Thurs, 2 Dec
	Watch All 4 Adventure today (Sunday) at 4pm Channel 10 to see Pilbara Tours show off the Big Fis...	Post reach 7247	Engagement 655	Sun, 28 Nov
	Just 31 days till Christmas, and the Port Hedland Visitor Centre has your gift giving covered,...	Post reach 3122	Engagement 577	Wed, 24 Nov
	Wendy has been working hard to create our Funky Christmas Tree from the book exchange books a...	Post reach 1847	Engagement 61	Thurs, 18 Nov

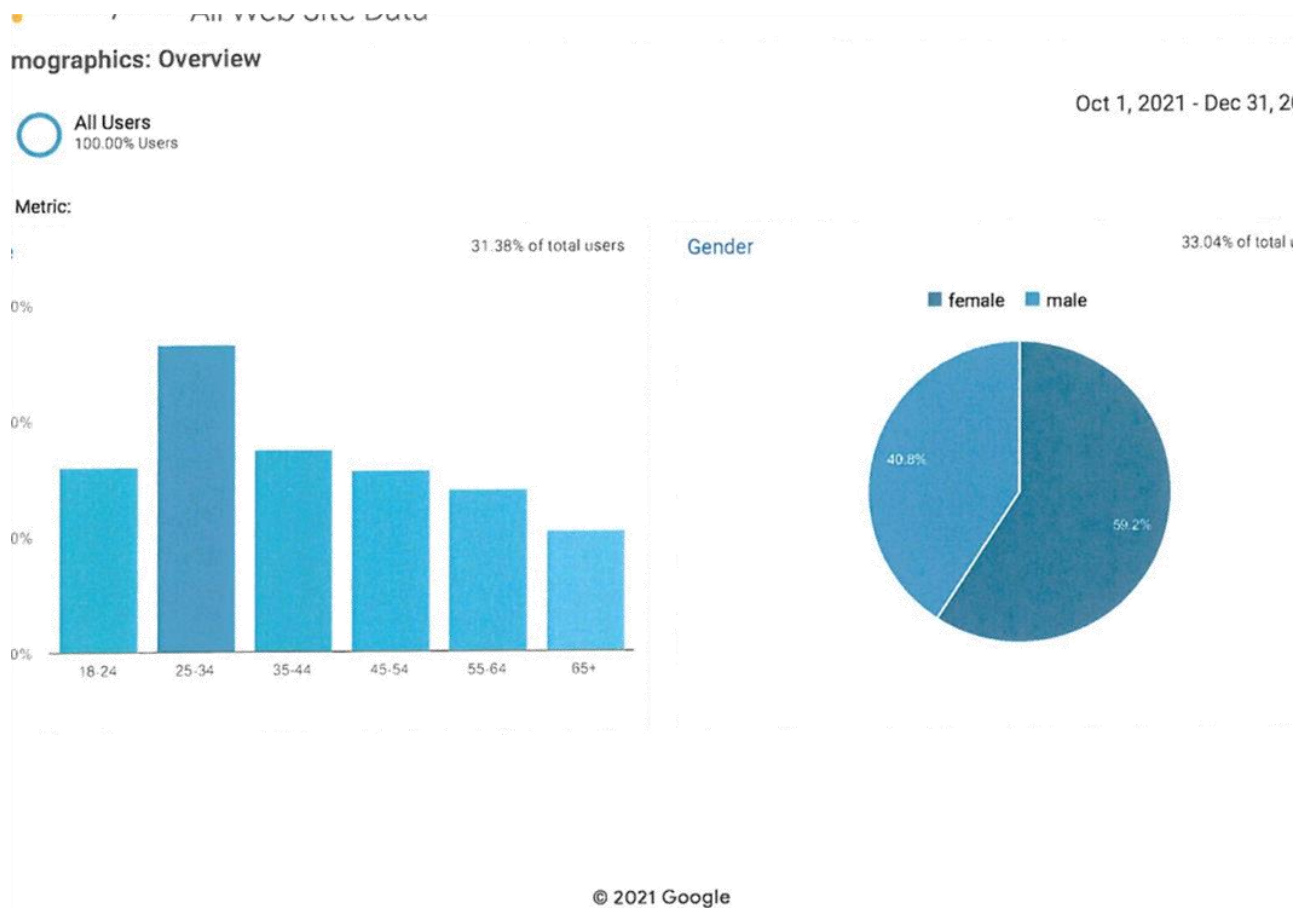
	Congratulations to Owen Olivares who won our Find Santa Competition winning all the local...	Post reach 835	Engagement 101
Wed, 17 Nov			
	Lots to see and do around Port Hedland this weekend.	Post reach 1187	Engagement 33
Wed, 17 Nov			
	We would like to thank everyone who came along to the Portside Christmas Markets to make it a...	Post reach 5271	Engagement 400
Mon, 15 Nov			
	Handed in to the Visitors Centre at the markets on Friday night. Will be taken to the bank if not...	Post reach 1080	Engagement 151
Mon, 15 Nov			
	Just arrived! The Visitors Centre is the Pick up Point for the North West Telegraph newspaper . Get...	Post reach 1076	Engagement 39
Wed, 10 Nov			
	Just in! The Hedland Camera Club 2022 calendar with stunning photos showcasing our amazing...	Post reach 2552	Engagement 110
Fri, 5 Nov			

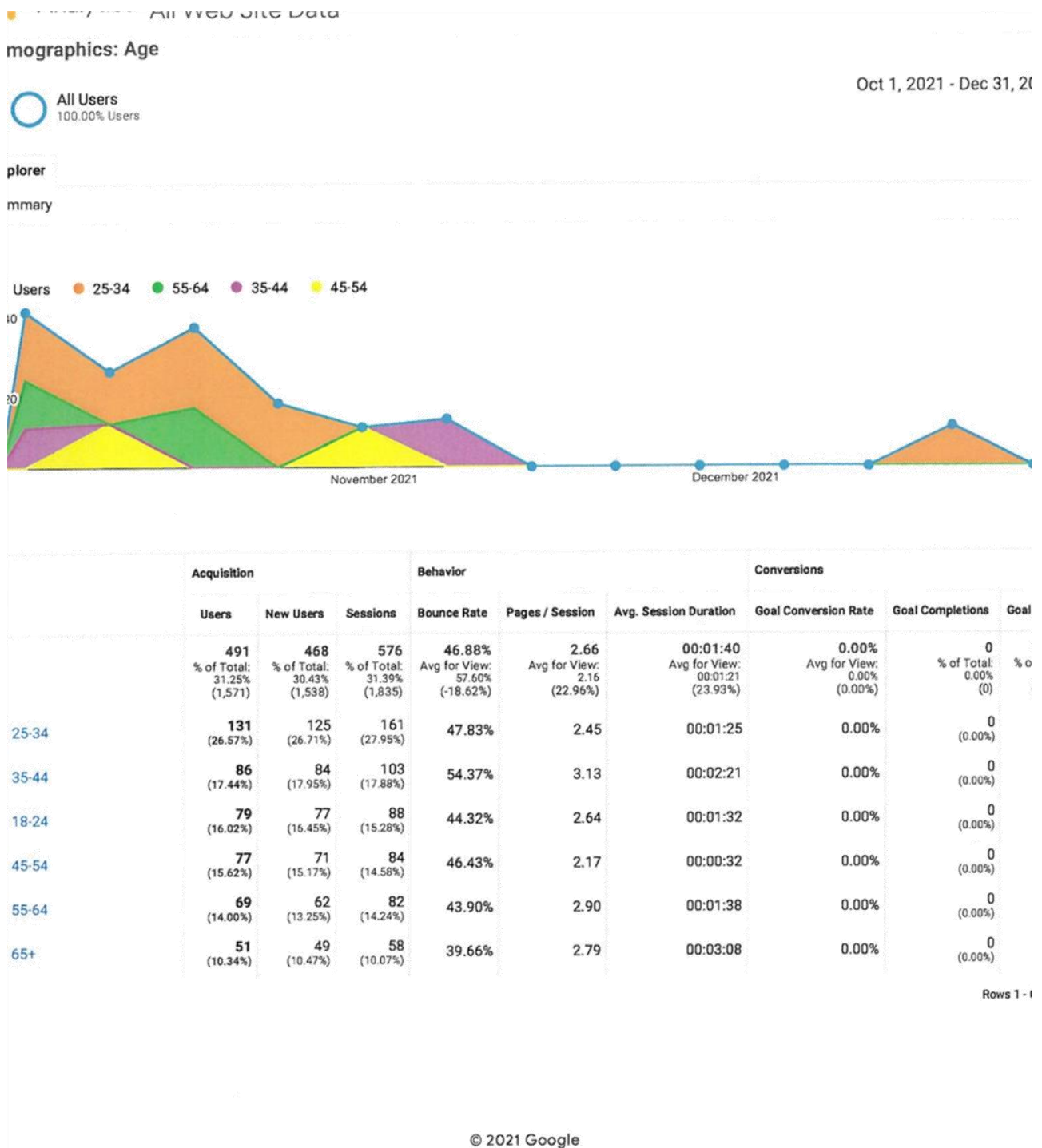
	Cleo is home! Never have we ever been so happy to throw something to landfill. Well done...	Post reach 1400	Engagement 163
Wed, 3 Nov			
	The Funky Christmas Tree promotion is back again for the third year running. Contact us to...	Post reach 2068	Engagement 43
Tues, 2 Nov			
	We have had a phone call from Santa asking if we wouldn't mind collecting his letters. Santa is...	Post reach 2552	Engagement 90
Mon, 1 Nov			
	Didn't get the local North West Telegraph paper this week? The Visitors Centre is a "pick up poin...	Post reach 1700	Engagement 29
Sun, 31 Oct			
	If you are in Hedland this weekend, come join us at turtle training! We are extremely lucky ...	Post reach 914	Engagement 47
Thurs, 28 Oct			
	Thank you Doris Teufel for supplying the photos for our Port Hedland fishing shirt. These will...	Post reach 8279	Engagement 824
Mon, 25 Oct			
	Twilight Christmas Wedge Street Footpath Markets.	Post reach 0	Engagement --
Mon, 25 Oct			
	October 25th, just 2 months till Christmas. Get a head start on your Christmas shopping and...	Post reach 409	Engagement 29
Mon, 25 Oct			

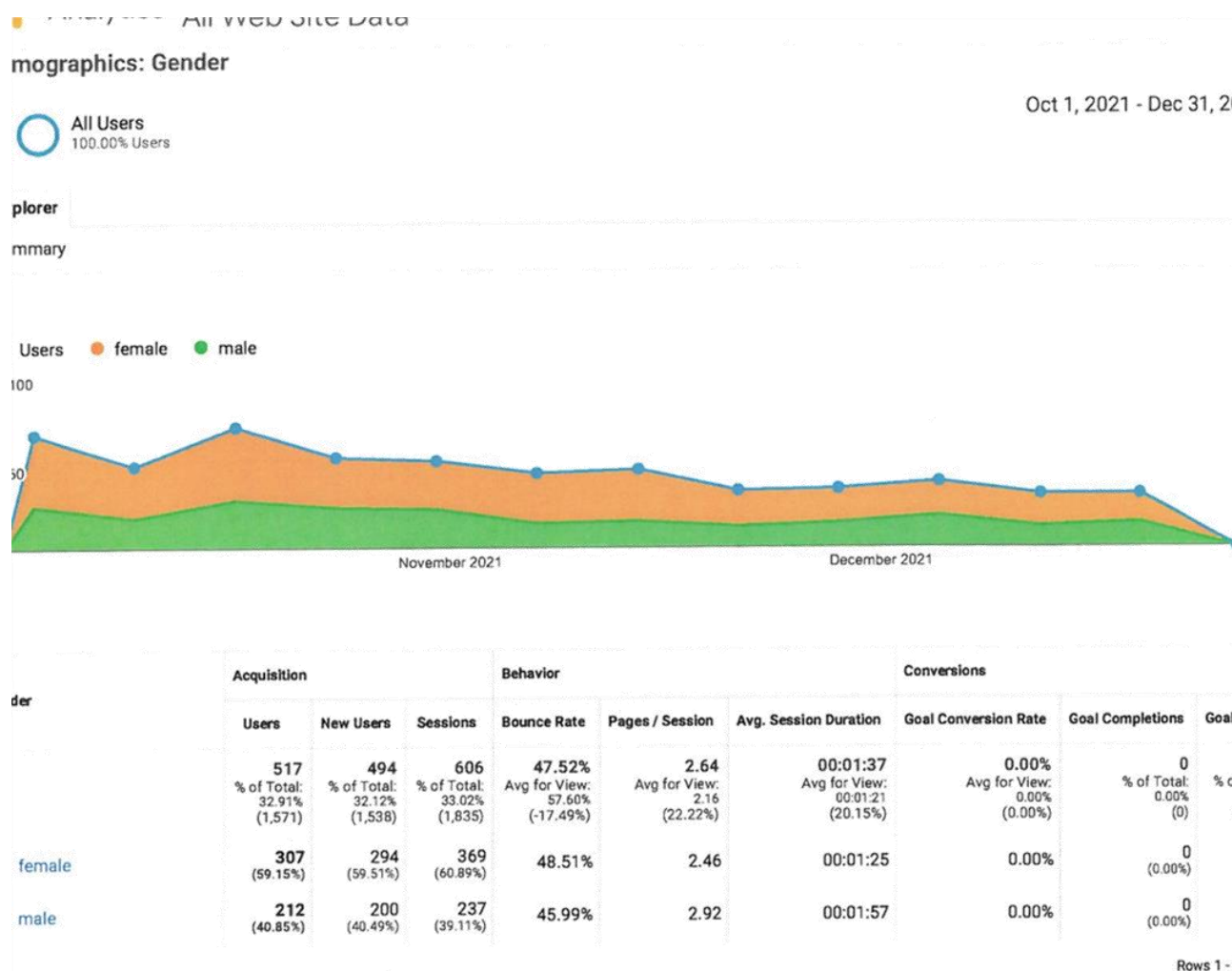
	The Wedge Street Footpath Markets are combining with the Courthouse Gallery makers... Sat, 23 Oct	Post reach 959	Engagement 62
	Port Hedland "Then and Now" exhibition opened last night. There are fantastic old Port Hedland... Tues, 19 Oct	Post reach 1895	Engagement 53
	Get your 125th birthday commemorative shirt or singlet from the Visitors Centre. The Pet... Wed, 13 Oct	Post reach 2685	Engagement 118
	Photograph Exhibition Port Hedland " Then and Now" Wed, 13 Oct	Post reach 0	Engagement --
	125th Birthday Wedge Street Footpath Markets Wed, 13 Oct	Post reach 0	Engagement --
	The birthday celebrations start this Saturday and continue all week. Checkout the activities below. Mon, 11 Oct	Post reach 1280	Engagement 60
	Next Sunday is the start of a week of celebrations to mark the 125th birthday of our town. The Wedg... Sun, 10 Oct	Post reach 569	Engagement 35
	-- Sat, 9 Oct	Post reach 237	Engagement 2
	October 9th is "Love your bookshop" Day. We don't have a bookshop in Port Hedland but th... Sat, 9 Oct	Post reach 1157	Engagement 34

Attachment 2. Walk in visitors – October to December 2021









© 2021 Google

All Web Site Data

ation

Oct 1, 2021 - Dec 31, 2021

All Users
100.00% Users

ip Overlay

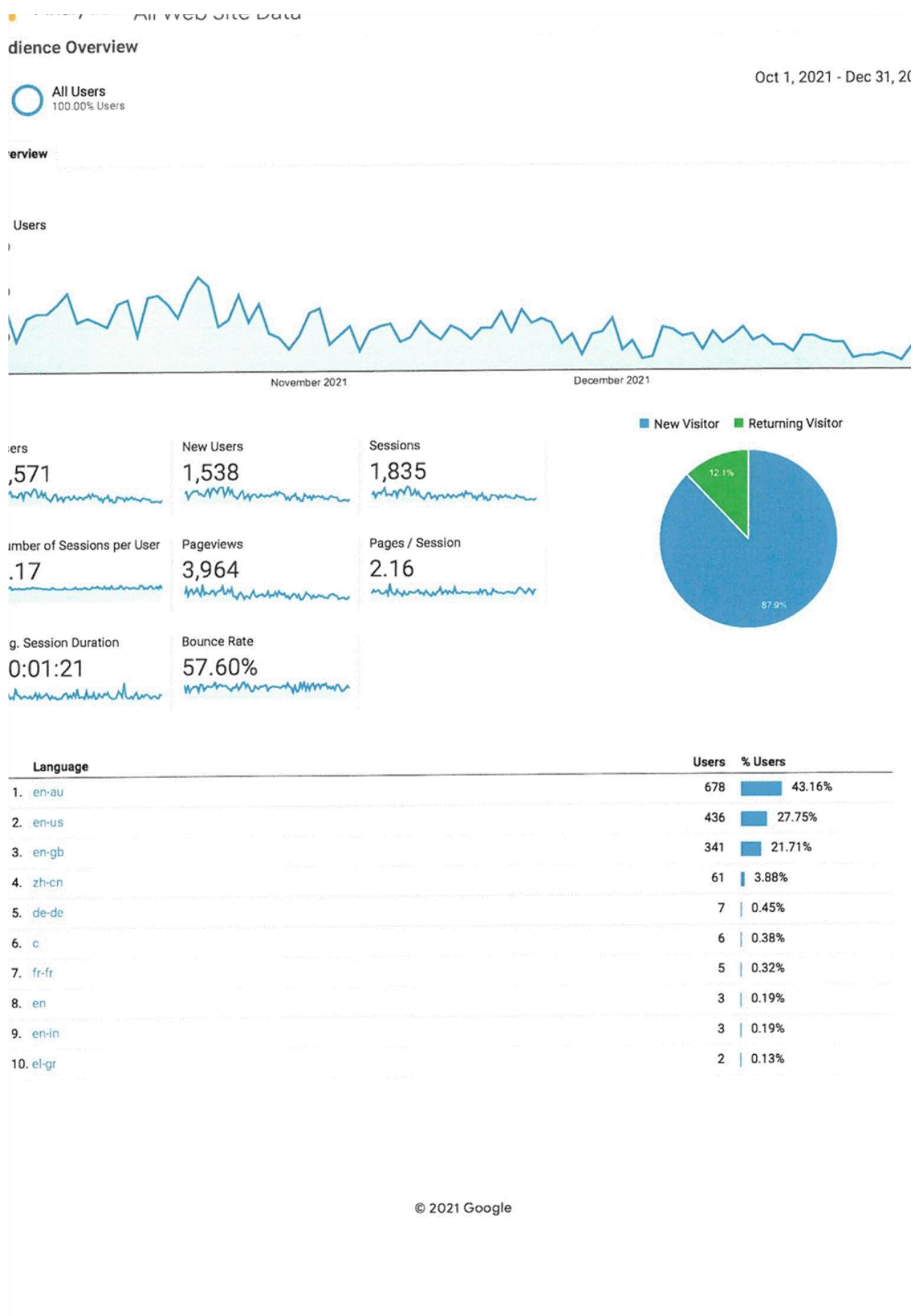
Summary



Country	Acquisition			Behavior			Conversions		
	Users	New Users	Sessions	Bounce Rate	Pages / Session	Avg. Session Duration	Goal Conversion Rate	Goal Completions	Goal
	1,571 (100.00%) (1,571)	1,538 (100.00%) (1,538)	1,835 (100.00%) (1,835)	57.60% Avg for View: 57.60% (0.00%)	2.16 Avg for View: 2.16 (0.00%)	00:01:21 Avg for View: 00:01:21 (0.00%)	0.00% Avg for View: 0.00% (0.00%)	0 (0.00%) (0)	0
Australia	1,355 (86.20%)	1,323 (86.02%)	1,610 (87.74%)	54.53%	2.26	00:01:29	0.00%	0 (0.00%)	0
China	73 (4.64%)	72 (4.68%)	73 (3.98%)	100.00%	1.00	00:00:00	0.00%	0 (0.00%)	0
United States	58 (3.69%)	58 (3.77%)	62 (3.38%)	88.71%	1.18	00:00:10	0.00%	0 (0.00%)	0
United Kingdom	11 (0.70%)	11 (0.72%)	12 (0.65%)	50.00%	2.08	00:01:43	0.00%	0 (0.00%)	0
New Zealand	11 (0.70%)	10 (0.65%)	12 (0.65%)	33.33%	1.83	00:00:24	0.00%	0 (0.00%)	0
Canada	8 (0.51%)	8 (0.52%)	8 (0.44%)	87.50%	1.38	00:01:12	0.00%	0 (0.00%)	0
Germany	6 (0.38%)	6 (0.39%)	6 (0.33%)	66.67%	1.83	00:00:19	0.00%	0 (0.00%)	0
Ireland	5 (0.32%)	5 (0.33%)	5 (0.27%)	0.00%	3.60	00:01:09	0.00%	0 (0.00%)	0
France	4 (0.25%)	4 (0.26%)	4 (0.22%)	75.00%	1.25	00:00:02	0.00%	0 (0.00%)	0
India	4 (0.25%)	4 (0.26%)	4 (0.22%)	75.00%	3.25	00:00:51	0.00%	0 (0.00%)	0

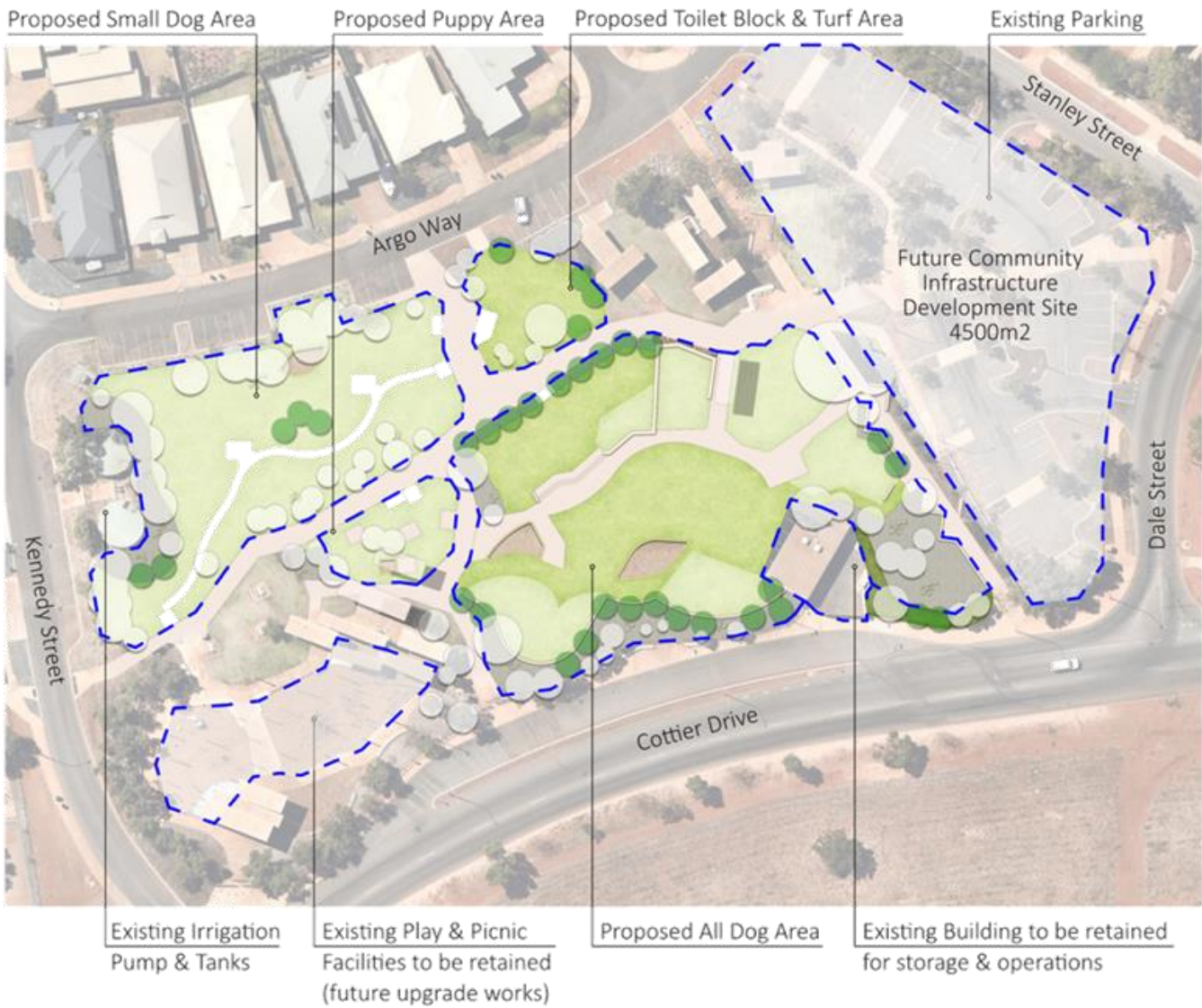
Rows 1 - 10

© 2021 Google



Attachment 4. Visitor Comments - October to December 2021			
- a selection from the Visitor Centre's Guest Book			
Date	Initial	State	Comment
1/10/2021	BF	Horsnam, Vic	Great Staff
1/10/2021	LH	Horsnam, Vic	Interesting and impressive vvv
4/10/2021	SK	WA	Great information on the Keesing ancestors
4/10/2021	GSH	Adelaide, SA	Interesting, rich in resources in WA
5/10/2021	DD	Elimbah, QLD	Good info. Thanks
7/10/2021	AT	Ontario, Canada	Great info station
12/10/2021	P and M	Phillip Island, Vic	We stayed here because of the R.V. camp at race track and spent \$750 in town on supplies, fuel and tours. It would have been spent elsewhere if R.V. Camp was not available. Thanks very much!!!
13/10/2021	NP	Darwin	Thank you. Interesting place.
23/10/2021	PE	Perth	Friendly staff. Thank you.
24/10/2021	MK		Great hospitality
31/10/2021	CD	Perth	Very helpful
7/11/2021	J&P	Darwin	Fantastic, great help
12/11/2021	DTK		Lots of cute things kept it up.
14/11/2021	MH	Perth	Worked here for 2 years, happy memories.
28/11/2021	SP	Mandurah. WA	Thanks for the hospo!
28/11/2021	OS	The Big Cap	Good infor and help, thanks.

Marquee Park, South Hedland - Dog Park
Landscape Site Plan



Existing landscape & facilities



Existing landscape treatment



Associative images

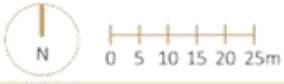


Existing seating



Existing landscape treatment

Drawing Number	TPH01: MP01	Revision	D
Date	March 2022	Scale	Refer scale bar



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0438 880 124

Landscape Architecture
Urban Design
Play Spaces
Residential Landscapes



Marquee Park, South Hedland - Dog Park

Case Study #01 - Annies Landing Dog Park, Ellenbrook WA



Drawing Number	TPH01: MP02	Revision	A
Date	December 2021	Scale	Refer scale bar

N

0 10 20m

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Marquee Park, South Hedland - Dog Park

Case Study #02 - Edgar Griffith Dog Exercise Park, Wanneroo WA



Informative signage at entry points



Drawing Number	TPH01: MP03	Revision	A
Date	December 2021	Scale	Refer scale bar

N

0 10 20m

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Play Spaces
Residential Landscapes

Considered
Space

Marquee Park, South Hedland - Dog Park

Case Study #03 - Elcar Park Dog Exercise Area, Joondalup WA



- General notes:
- Small & all dog areas
 - Signage
 - Irrigated turf
 - Multiple double gate entry exit points per zone
 - 1x water fountain and dog bowl per zone
 - 1x bin per exit point
 - Tree and mulch only gardenbeds (no shrubs)
 - Dog agility equipment including:
 - Timber logs
 - Rock / boulder mounds



Drawing Number	TPH01: MP04	Revision	A
Date	December 2021	Scale	Refer scale bar



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Marquee Park, South Hedland - Dog Park
Case Study #04 - Whiteman Park Dog Park, Whiteman WA



Drawing Number	TPH01: MP05	Revision	A
Date	December 2021	Scale	Refer scale bar

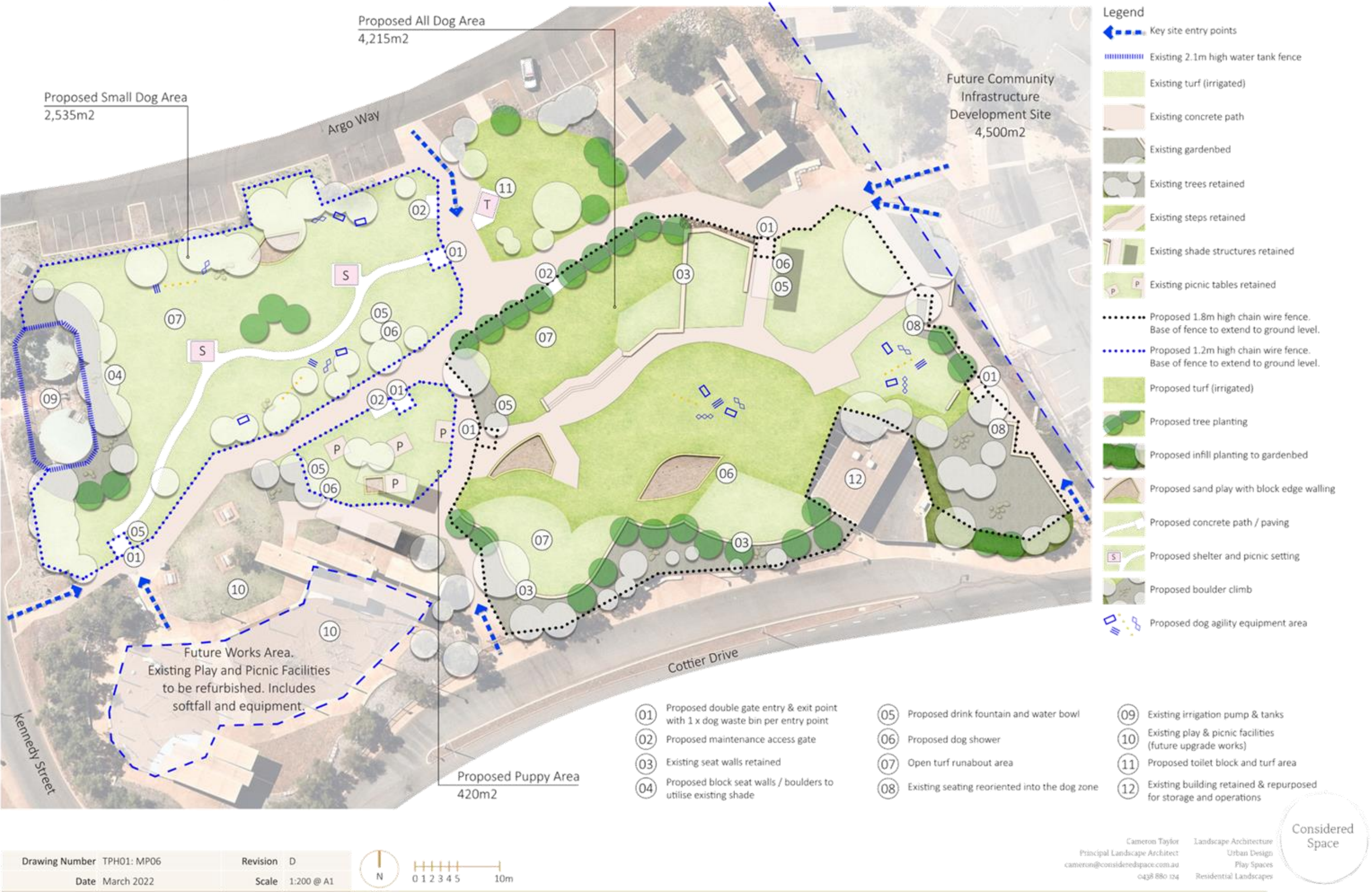
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Landscape Architecture
Urban Design
Play Spaces
Residential Landscapes



Marquee Park, South Hedland - Dog Park

Landscape Masterplan



Marquee Park, South Hedland - Dog Park
Associated Images



Proposed shade trees



Chain wire double entry gate. Extend to ground level



Dog ramp & table



Agility equipment run



Concrete culvert tunnel & ladder climb



Weave posts



Bench seating within dog play zones



Chain wire boundary fence. Extend to ground level.



Dog shower



Concrete culvert tunnel



Formal sunken sand pit



Boulder agility run



Block wall seating under existing trees



Open turf runabout areas



Self-closing spring gate



Boulder climb



Water fountain & bowl



Maintenance access gate

Drawing Number	TPH01: MP07	Revision	A
Date	December 2021	Scale	n/a

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Landscape Architecture
Urban Design
Play Spaces
Residential Landscapes

Considered
Space