

SYDNEY BUSINESS PARK STAGE 3

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN FOR BULK EARTHWORKS

LOT 4 IN DP 1210172, PART LOTS 50 AND 51 IN DP 1265695 HOLLINSWORTH ROAD MARSEN PARK NSW 2765

> REVISION 2 11 FEBRUARY 2021



### PREPARED BY:

# Marsden Park Developments Pty Ltd (Sydney Business Park)

15 Hollinsworth Road Marsden Park NSW 2026

## PREPARED FOR:

## **Department of Planning, Industry and Environment**

12 Darcy Street Parramatta NSW 2150

## **DOCUMENT CONTROL:**

Reference	Date	Prepared By	Authorised By
Rev 1	07/02/2021	Shek Yuen	Owen Walsh
Rev 2	11/02/2021	Shek Yuen	Owen Walsh

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### 1 Introduction

## 1.1 Project Scope

This Construction Environment Management Plan (CEMP) for the Bulk Earthworks of the Sydney Business Park Stage 3 project has been prepared by Marsden Park Developments Pty Ltd (MPD), as the developer of Sydney Business Park, in response to the requirements noted in SSD-10477, and in consultation with the Bulk Earthworks Head Contractor, Mulgoa Quarries.

This report is only relevant to the bulk earthworks under the State Significant Development Approval.

The Stage 3 Sydney Business Park Stage 3 Project consists of the construction of four warehouse and distribution facilities, ancillary parking and infrastructure, nine lot subdivision and two estate roads. The project is located at Lot 4 in DP 1210172 & Part Lots 50 and 51 in DP 1265695, Hollinsworth Road, Marsden Park and access to site is off Hollinsworth Road.

The Department of Planning, Industry and Environment issued the State Significant Development Consent Number SSD-10477 on 28 January 2021. The Consent includes the construction and operation of:

- Four warehouse and distribution facilities;
- Ancillary car parking, infrastructure provision and landscaping;
- Nine lot subdivision;
- Earthworks;
- Vegetation clearing; and
- Construction of two estate roads and associated infrastructure.

The BCA Consultant is Dean Goldsmith of Blackett Maguire + Goldsmith.

MPD will be responsible for the ongoing management of the CEMP for Bulk Earthworks and its implementation on the site and for any updates to this document.

Site Location & Layout is as per the below Figure 1.

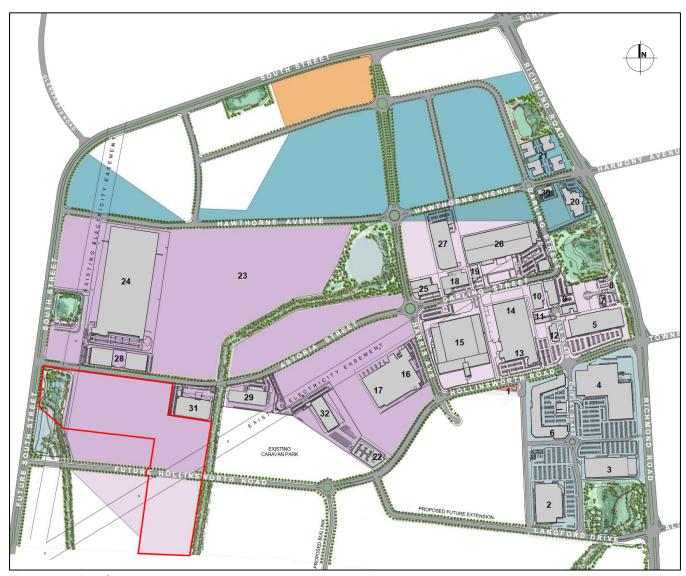


Figure 1 – Site Plan

## 1.2 Construction Environmental Management Plan for Bulk Earthworks

## 1.2.1 Scope

This Construction Environmental Management Plan (CEMP) has been prepared to satisfy the relevant conditions of consent for the Bulk Earthworks for Sydney Business Park Stage 3 SSD-10477. The specific requirements of these conditions, along with where these requirements have been addressed within this CEMP, are listed in **Table 1**.

Table 1 CEMP Background

No.	Condition	CEMP Section
C2	The Applicant must prepare a Construction Environmental Management Plan (CEMP) in accordance with the requirements of condition C1 and to the satisfaction of the Planning Secretary	This document
C1	Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:	
a)	Detailed baseline data	Refer to EIS
b)	details of: the relevant statutory requirements (including any relevant approval, licence or lease conditions); any relevant limits or performance measures and criteria; and	Section 3
	the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	
c)	a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	Section 3 & 4
d)	a program to monitor and report on the: impacts and environmental performance of the development; and effectiveness of the management measures set out pursuant to paragraph (b) above;	Section 4
e)	a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Section 4
f)	a program to investigate and implement ways to improve the environmental performance of the development over time;	Section 4
g	a protocol for managing and reporting any: incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria); complaint; failure to comply with statutory requirements; and	Section 4
h)	a protocol for periodic review of the plan.	Section 4
C3	As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:	
a)	Construction Traffic Management Plan (see Condition B1);	Appendix B

No.	Condition	CEMP Section
b)	Erosion and Sediment Control Plan (see condition B12)	Appendix I
c)	Construction Noise Management Plan (See condition B19)	Appendix K
d)	Unexpected Finds Protocol (See condition B45)	Appendix N
e)	Landscape Management Plan	Section 3
f)	Community Consultation and Complaints Handling	Appendix D

## 1.2.2 Aims and Objectives

The objectives of this Bulk Earthworks CEMP are to:

- Establish the framework for managing and mitigating the potential for adverse environmental impacts as a result of the bulk earthworks construction of the development;
- Clearly and concisely document the commitments made in the relevant specialist impact assessments and/or management plans that are required to be implemented and/or complied with during the bulk earthworks phase;
- Clearly and concisely document the conditions imposed by SSD-10477, along with any other approvals, that are required to be implemented and/or complied with during the bulk earthworks phase; and
- Assist to establish the development in a manner that avoids (where possible) or minimises impact to the surrounding environment and populace.

## 1.2.3 Consultation

In accordance with condition C4 of Development Consent SSD-10477, this CEMP shall be submitted to the planning secretary for review and feedback. The CEMP will be updated to address any issues or requests received from the Planning Secretary.

Copies of all consultation correspondence is appended as Appendix G.

### 2 CONSTRUCTION BRIEF

### 2.1 Overview

The Development is located at Hollinsworth Road, Marsden Park within the Stage 3 of the Sydney Business Park estate. The works consist of the construction and operation of:

- Four warehouse and distribution facilities:
- Ancillary car parking, infrastructure provision and landscaping;
- Nine lot subdivision;
- Earthworks;
- Vegetation clearing; and
- Construction of two estate roads and associated infrastructure.

This CEMP addresses only the bulk earthworks to be completed to the stages illustrated within Development Consent SSD-10477. All earthworks completed are to be consistent with approved engineering plans.

## 2.2 Construction Activities and Timing

Works are to include the construction of the Temporary On Site Detention basin as per Condition B14 as the primary piece of work, and then will follow with the Bulk Earthworks of the Sydney Business Park Stage 3 area as per the plans in Appendix O. Soil and Erosion control will be implemented as per details provided in Appendix I.

Constructions of the project is scheduled to commence immediately following approval of all required documentation and issue of required construction certification, which is anticipated to be in by 15/02/2021 (pending approvals) and the works will span approximately two months from commencement.

The Construction Program is provided in Appendix F.

## 2.3 Construction Hours

Construction hours for the site will be in accordance with conditions B15 and B16 of Development Consent SSD-10477, which are to be:

- 7am to 6pm Mondays to Fridays (inclusive);
- 8am to 1pm Saturdays; and
- Work on Sundays and Public Holidays is prohibited.

### 2.4 Construction Vehicle Access Routes

All construction vehicles will be directed to enter and exit the site via the routes shown in Figure 2 and as per the Construction Traffic Management Plan (see Appendix B). These routes represent the shortest route between the local and regional road network and will therefore minimise traffic and transport-related impacts during the bulk earthworks phase. A copy of the approved routes will be distributed to all drivers prior to commencing work.



Figure 2 – Construction Vehicle Access Routes

The number of vehicles permitted for the Bulk Earthworks will not exceed the requirements of condition B6 being:

- 24 total traffic movements (12 in, 12 out) for the delivery and removal of equipment (graders, dozers, excavator, scrapers etc);
- 30 daily traffic movements (15 in, 15 out) for construction staff light vehicles; and
- No truck movements on Richmond Road for the importation or exportation of fill materials outside of the site.

## 2.5 Construction Site Access

All access to the site by construction personnel will be via Hollinsworth Road. Generally, on-site access will be limited to deliveries and heavy vehicles, with contractors provided sufficient car parking facilities on site, in accordance with the relevant Australian Standard, to ensure that traffic associated with the development does not utilise public and residential streets or public parking. All vehicles will enter and exit in a forward direction. Emergency vehicle access to and from site will be available at all times during the bulk earthworks phase. This process would be implemented through emergency protocols as detailed in the project management plan.

## 2.6 Construction Contact Details

Table 2 lists the key contacts during the bulk earthworks phase of the Development.

**Table 2** Construction Contacts List

Location / Personnel (Estate Bulk Earthworks)	Contact Details
Client – Infrastructure Director – Michael Gray	0425 343 672

Location / Personnel (Estate Bulk Earthworks)	Contact Details
Principal Contractor - Site Manager — Max Sarkis	0407 327 745

**Table 3** Lists the contact details for the regulatory authorities that have an interest in the bulk earthworks phase of the Development.

**Table 3** Regulatory Authority Contact List

Regulatory Authority / Stakeholder	Key Contact	Contact Details		
Department of Planning, Industry and Environment (DPIE)	Development Assessment Unit and/or Compliance Unit	1300 305 695 or 02 9228 6111 Email: information@planning.nsw.gov.au		
Environment Protection Email: in		131 555 Email: info@environmen	131 555 Email: info@environment.nsw.gov.au	
Authority (EPA)	Head office (Sydney)	02 9995 5000		
Blacktown City Council	Main switchboard	02 9839 6000 Email: council@blacktown.nsw.gov.au		
NSW Health	NSW Ministry of Health (Sydney)	02 9391 9000		
SafeWork NSW	Incident Notification Hotline	131 050  Select Option 3 to report a "Serious Incident or Fatality" – this will result in the incident being recorded and the appropriate person being contacted.		
Emergency Services	NSW Police NSW Fire and Rescue NSW Ambulance Service	131 444 1300 729 579	In case of emergency 000	
WaterNSW	Incident Notification Number (24 hour) -	1800 061 069		

## 3 CONSTRUCTION ENVIRONMENTAL MANAGEMENT

## 3.1 Environmental & Sustainability Policies

Mulgoa Quarries (Head Contractor) maintains an Environmental Management Plan (Appendix E) which states that the long-term philosophy includes a sustainable approach to the environment, as well as proper consideration for the social and economic responsibilities to the wider community.

## 3.2 Roles and Responsibilities of Key Personnel

The key personnel responsible for environmental management during construction are listed in **Table 4**.

 Table 4
 Personnel Responsible for Environmental Management

Role	Responsibilities
MPD Development Director	<ul> <li>Ensure all works comply with relevant regulatory and project requirements;</li> <li>Ensure the requirements of the CEMP are fully implemented;</li> <li>Provide guidance in the regular review of this CEMP; and</li> <li>Ensure complaints are resolved satisfactorily.</li> </ul>
Mulgoa Quarries Project Manager	<ul> <li>Plan construction works in a manner that avoids or minimises impact to the environment;</li> <li>Ensure the requirements of this CEMP are fully implemented;</li> <li>Ensure construction personnel manage construction works in accordance</li> <li>with statutory and approval requirements;</li> <li>Ensure environmental management procedures and protection measures are implemented;</li> <li>Ensure all project personnel attend an induction prior to commencing works; and</li> <li>Stop work immediately if an unacceptable impact on the environment is likely to occur.</li> </ul>
Mulgoa Quarries Site Manager (reports to Project Manager)	<ul> <li>Implement and ensure compliance to this CEMP during all site works;</li> <li>Implement all environmental plans and procedures on site as required;</li> <li>Co-ordination and interface of all on-site activities;</li> <li>Establish and maintain site environmental measures;</li> <li>Review all subcontractor management plans submitted prior to works;</li> <li>commencing including obtaining all necessary approvals;</li> <li>Management of all inspection checklists; and</li> <li>Coordination of environmental daily audits.</li> </ul>
Mulgoa Quarries Safety, Health and Environment Officer	<ul> <li>Instruct relevant company personnel in the application of the Environmental Management Plan;</li> <li>Provide guidance for personnel on the procedures required under the Environmental Management Plan;</li> <li>Provide guidance on compliance with standards and legislation;</li> <li>Conduct internal audits of the Environmental Management Systems &amp; Procedures; and</li> <li>Ensure site environmental inspections are being conducted daily.</li> </ul>
Wider Project Team (reports to Project Manager)	<ul> <li>Comply with all relevant requirements of this CEMP as instructed by the project team;</li> <li>Participate in daily environmental audits as required;</li> <li>Participate in mandatory project &amp; environmental inductions;</li> <li>Regularly review and rectify as required any project environmental controls currently in place; and</li> <li>Stop any activity when there is a risk to the environment and report it to the Project Manager, Site Manage or WH&amp;S Manager.</li> </ul>

Role	Responsibilities	
	<ul> <li>Ensure familiarity, implementation and compliance with this CEMP and appended management plans;</li> </ul>	
	Support the commitment to environmental management and compliance;	
All employees and sub-contractors	<ul> <li>Work in a manner that will not harm the environment or impact on surrounding receptors;</li> </ul>	
Sub contractors	<ul> <li>Report all environmental incidents and complaints to Site Management without delay; and</li> </ul>	
	<ul> <li>Report any inappropriate construction practices and/or environmental management practices to Site Management without delay.</li> </ul>	

## 3.3 Development Consent

The bulk earthworks will be constructed in accordance with Development Consent "Terms of Consent", Conditions A2, A3 & A4. Development Consent SSD-10477 (Appendix A) imposes a number of Specific Environmental Conditions applicable to the bulk earthworks phase of the proposed project. The conditions & comments/actions are listed in **Table 5** below.

**Table 5** Specific Environmental Conditions

PART B -	PART B - SPECIFIC ENVIRONMENTAL CONDITIONS - Only the conditions applicable during construction			
No	Condition	Comments / Actions		
PART A -	PART A - ADMINISTRATIVE CONDITIONS			
OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT				
A1	In addition to meeting the specific performance criteria established in this consent, all reasonable and feasible measures must be implemented to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from the construction and operation of the development	Noted		

NOTIFICATION OF COMMENCEMENT				
A6	The date of commencement of each of the following phases of the development must be notified to the Department in writing, at least one month before that date, or as otherwise agreed by the Planning Secretary:  (a) construction;  (b) operation of each warehouse building  (c) cessation of operations.	Refer to Appendix F for Construction Programme. Updated notification issued to DPIE on 11/02/2021.		
A7	If the construction or operation of the development is to be staged, the Department must be notified in writing at least one month before the commencement of each stage, of the date of commencement and the development to be carried out in that stage.	Noted		
EVIDENCE	OF CONSULTATION			
A8	<ul> <li>Where conditions of this consent require consultation with an identified party, the applicant must: <ul> <li>a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval; and</li> <li>b) provide details of the consultation undertaken including: <ul> <li>i. the outcome of that consultation, matters resolved and unresolved; and</li> <li>ii. details of any disagreement remaining between the party consulted and the applicant and how the applicant has addressed the matters not resolved</li> </ul> </li> </ul></li></ul>	Consultation provided in Appendix G		
STAGING,	COMBINING AND UPDATING STRATEGIES, PLANS OR PROGRAMS			
A9	<ul> <li>(a) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program);</li> <li>(b) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined); and</li> <li>(c) update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).</li> </ul>	Noted. Staging as per EIS and Notification issue to DPIE on 02/02/2021		

PROTECTION OF PUBLIC INFRASTRUCTURE			
A12	Before the commencement of construction, the Applicant must:  (a) consult with the relevant owner and provider of services that are likely to be affected by the development to make suitable arrangements for access to, diversion, protection and support of the affected infrastructure;  (b) prepare a dilapidation report identifying the condition of all public infrastructure in the vicinity of the site (including roads, gutters and footpaths); and  (c) submit a copy of the dilapidation report to the Planning Secretary and Council.	Dilapidation Report provided in Appendix H	
A13	Unless the Applicant and the applicable authority agree otherwise, the Applicant must:  (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by carrying out the development; and  (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.  RAL ADEQUACY	Noted	
A15	All new buildings and structures, and any alterations or additions to existing buildings and structures, that are part of the development, must be constructed in accordance with the relevant requirements of the BCA.  Note:  Under the former Part 4A of the EP&A Act or Part 6 of the EP&A Act as applies from 1 September 2019, the applicant is required to obtain construction and occupation certificates for the proposed building works  Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.	Noted	

SUBDIV	ISION	
A16	Prior to the issuing of a Subdivision Certificate for any stage of the development, detailed work-as-executed drawings shall be prepared and signed by a Registered Surveyor, which show the finished surface levels of the access road, internal roads, drainage and any areas of fill, carried out under this consent. The work-as-executed drawing must be submitted to the Certifier and Council prior to the issue of a Subdivision Certificate.	Noted
A17	Prior to the issuing of a Subdivision Certificate for any stage of the development, the Applicant must provide to the Certifier evidence that all matters required to be registered on title, including easements, have been lodged for registration or registered at the Land Registry Services.	Noted
A18	Prior to the issuing of a Subdivision Certificate for any stage of the development, a certificate from an electricity and telecommunications provider must be submitted to the Certifier certifying that satisfactory service arrangements to the site have been established.	Noted
COMPL	IANCE	
A19	The applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development	Noted
SPECIA	INFRASTRUCTURE CONTRIBUTION	
A20	The Applicant is to make a Special Infrastructure Contribution in accordance with the Environmental Planning and Assessment (Special Infrastructure Contribution - Western Sydney Growth Areas) Determination 2011 (as in force when this consent becomes operative).	Agreed. Payable prior to OC.
A21	Prior to the issuing of any Occupation Certificate for works in relation to the development the subject of this consent, the Applicant must provide the Certifier with written evidence from the Planning Secretary that the liability to make the special infrastructure contribution for the development (or that part of the development for which the certificate is sought) has been discharged, or that arrangements are in force with respect to the discharge of the liability.  Note: More information about the special infrastructure contribution can be found on the Department's website at: http://www.planning.nsw.gov.au/Policy-and-	Noted
	Legislation/Infrastructure/Infrastructure-Funding/Special-Infrastructure-	
	Contributions-SIC	
CONTR	BUTIONS TO COUNCIL  Before the issuing of an Occupation Certificate for any part of the	1
A22	development, a contribution under section 7.11 of the EP&A Act of \$9,068,279.00 (adjusted on a quarterly basis (from the date of this consent), to account for movements in the Australian Bureau of Statistics Consumer Price Index – Building Construction (NSW)), must be paid to Council.	Agreed. Payable prior to OC.

OPERATION OF PLANT AND EQUIPMENT				
A23	All plant and equipment used on site, or to monitor the performance of the development must be:  (a) maintained in a proper and efficient condition; and	Noted		
7.23		. roteu		
	(b) operated in a proper and efficient manner.			
TRANSGR	ID REQUIREMENTS			
	Prior to commencement of works within the TransGrid easement the Applicant must submit Final design plans to TransGrid. The final design plans must demonstrate:			
A24	(a) a vertical clearance of 8.0 m over the roadway	Noted		
	(b) fencing within the easement to not exceed 2.5 m in height			
	(c) a dust management plan is in place to ensure excessive dust is not deposited on the towers or insulators.			
A25	Height restrictions shall be applied to cranes, elevated work platforms and any other plant and equipment proposed to operate on the easement. This restriction applies to all mobile plant and equipment capable of exceeding a height of 4.2 m	Noted		
A26	Prior to the issue of any Occupation Certificate, all fencing on the TransGrid easement shall be earthed and every second panel isolated from the next pair of fencing panels. Consultation with TransGrid is required for further instructions on the required earthing for the boundary fence.	Noted		
A27	The Applicant must formally notify TransGrid of any amendments or modifications to the development, including to ground surface levels within the easement.	Noted		
EXTERNA	WALLS AND CLADDING			
A28	The external walls of all buildings including additions to existing buildings must comply with the relevant requirements of the BCA.			
	Prior to the issuing of:			
	(a) any Construction Certificate relating to the construction of external walls (including the installation of finishes			
	and claddings such as synthetic or aluminium composite panels); and	Noted.		
A29	(b) an Occupation Certificate,	Required prior		
	the Applicant must provide the Certifier with documented evidence that the products and systems proposed for use or used in the construction of external walls (including finishes and claddings such as synthetic or aluminium composite panels) comply with the requirements of the BCA.	to building CC.		
A30	The Applicant must provide a copy of the documentation given to the Certifying Authority to the Planning Secretary within seven days after the Certifying Authority accepts it.			

UTILITIES AND SERVICES			
A31	Before the construction of any utility works associated with the development, the Applicant must obtain relevant approvals from service providers.	Noted	
A32	Before the commencement of operation of the development, the Applicant must obtain a Compliance Certificate for water and sewerage infrastructure servicing of the site under section 73 of the <i>Sydney Water Act 1994</i> .	Noted	
A33	Before the issue of any Occupation Certificate for any stage of the development, the Applicant (whether or not a constitutional corporation) is to provide evidence, satisfactory to the Certifying Authority, that arrangements have been made for:  (a) the installation of fibre-ready facilities to all individual lots and/or premises in a real estate development project to enable fibre to be readily connected to any premises that is being or may be constructed on those lots; and  (b) the provision of fixed-line telecommunications infrastructure in the fibre-ready facilities to all individual lots and/or premises in a real estate development project demonstrated through an agreement with a carrier.	Noted	
A34	The Applicant must demonstrate that the carrier has confirmed in writing they are satisfied that the fibre ready facilities are fit for purpose.	Noted	
MONITO	DRING AND ENVIRONMENTAL AUDITS	T	
A37	Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, Annual Review and independent environmental auditing.  Note: For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance	Noted	
	with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.		

PART B -	SPECIFIC ENVIRONMENTAL CONDITIONS				
TRAFFIC,	TRAFFIC, ACCESS AND PARKING				
B1	Construction Traffic Management Plan Prior to the commencement of construction, the Applicant must prepare a Construction Traffic Management Plan for the development to the satisfaction of the Planning Secretary. The plan must form part of the CEMP required by condition C2 and must:  (a) be prepared by a suitably qualified and experienced person(s);  (b) be prepared in consultation with Council;  (c) detail the measures that are to be implemented to ensure road safety and network efficiency during construction  (d) detail heavy vehicle routes, access points and parking arrangements;  (e) include a Driver Code of Conduct to:  (i) minimise the impacts of construction on the local and regional road network;  (ii) minimise conflicts with other road users;  (iii) minimise road traffic noise; and  (iv) ensure truck drivers use specified routes;  (f) include a program to monitor the effectiveness of these measures; and if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to	See Section 3.5 & CTMP in Appendix B			
B2	routes.  The Applicant must:  (a) not commence construction until the Construction Traffic     Management Plan required by condition B1 is approved by the     Planning Secretary; and  (b) Implement the most recent version of the Construction Traffic     Management Plan approved by the Planning Secretary for the duration     of construction.	Noted			
ROADWO	RKS AND ACCESS				
В3	Prior to the commencement of operation of the development, the Applicant must complete the construction of the north-south collector road between Hollinsworth Road and Astoria Street and the extension of Hollinsworth Road to the western side of the site, to the satisfaction of Council. The Applicant must obtain approval all works in the existing public road reserve under section 138 of the Roads Act 1993.	Noted			
B4	The Applicant must ensure the vehicle crossovers from Hollinsworth Road to the site are built so they comply with the AUSTROADS Guide to Traffic Engineering Practice, Part 5: Intersections at Grade, Section 6.2 – Sight Distance and AS2890	Noted			

INTERSEC	TION WORKS	
B5	The Applicant must undertake upgrade works to the Hollinsworth Road and Richmond Road intersection to the satisfaction of TfNSW. As part of these upgrade works, the Applicant must:  (a) submit concept civil design and Traffic Control Signal (TCS) plans to the satisfaction of TfNSW prior to the issue of a Construction Certificate for any stage of the development. The concept design plans must include:  (i) a left turn slip lane from Hollinsworth Road onto Richmond Road; and (ii) an additional right turn lane on the south bound approach to the intersection on Richmond Road (b) provide written evidence to the Planning Secretary demonstrating the detailed design plans have been approved by TfNSW; (c) enter into a Works Authorisation Deed (WAD) with TfNSW prior to the issue of an Occupation Certificate to undertake these intersection upgrade works; and (d) complete the intersection upgrade works to the satisfaction of TfNSW on Hollinsworth Road and Richmond Road prior to the commencement of operation of the final stage of the development.	MPD are working with TfNSW and this is to be issued prior to first building CC.
B6	Notwithstanding the requirements specified in condition B5(a) and B5(b), the Applicant may carry out early preparatory construction works (including tree clearing, earthworks, retaining walls and infrastructure provision) prior to satisfying the requirements of condition B5(a) subject to traffic movements to and from the site not exceeding the following limits:  (a) 24 total traffic movements (12 in, 12 out) for the delivery and removal of equipment (graders, dozers, excavator, scrapers etc);  (b) 30 daily traffic movements (15 in, 15 out) for construction staff light vehicles; and  (c) No truck movements on Richmond Road for the importation or exportation of fill materials outside of the site.	Noted. Bulk Earthworks CC to comply.
PARKING		
В7	The Applicant must provide sufficient parking facilities on-site, including for heavy vehicles and for site personnel, to ensure that traffic associated with the development does not utilise public and residential streets or public parking facilities.	Noted

OPERATIN	IG CONDITIONS	
	The Applicant must ensure:	
B8	The Applicant must ensure:  (a) internal roads, driveways and parking (including grades, turn paths, sight distance requirements, aisle widths, aisle lengths and parking bay dimensions) associated with the development are constructed and maintained in accordance with the latest version of AS 2890.1:2004  Parking facilities Off-street car parking (Standards Australia, 2004) and AS 2890.2:2002 Parking facilities Off-street commercial vehicle facilities (Standards Australia, 2002);  (b) the swept path of the longest vehicle entering and exiting the site, as well as manoeuvrability through the site, is in accordance with the relevant AUSTROADS guidelines;  (c) the development does not result in any vehicles queuing on the public road network;  (d) heavy vehicles and bins associated with the development are not parked on local roads or footpaths in the vicinity of the site;  (e) all vehicles are wholly contained on site before being required to stop;  (f) all loading and unloading of materials is carried out on-site;  (g) all trucks entering or leaving the site with loads have their loads covered and do not track dirt onto the public road network;  (h) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times;  (i) there shall be no heavy vehicle movements along the driveway between Warehouse 2 and the eastern boundary between the hours of 10:00 pm and 7:00 am; and  (j) all roller doors/shutters on the eastern elevation of Warehouse 2 shall be closed between the hours of 10:00 pm and 7:00 am.	Noted.
WORK PL	ACE TRAVEL PLAN	
В9	Prior to the commencement of operation of any part of the development, the Applicant must prepare a Work Place Travel Plan to the satisfaction of the Planning Secretary. The Work Place Travel Plan must:  (a) be prepared in consultation with TfNSW; (b) outline facilities and measures to promote public transport usage, such as car share schemes and employee incentives; and (c) describe pedestrian and bicycle linkages and end of trip facilities available on-site.	Noted
B10	The Applicant must:  (a) not commence operation until the Work Place Travel Plan is approved by the Planning Secretary; and  (b) implement the most recent version of the Work Place Travel Plan approved by the Planning Secretary for	Noted

SOILS, WATER QUALITY AND HYDROLOGY				
B11	Erosion & Sediment Control Prior to the commencement of any construction or other surface disturbance the Applicant must install and maintain suitable erosion and sediment control measures on-site, in accordance with the relevant requirements of the Managing Urban Stormwater: Soils and Construction - Volume 1: Blue Book (Landcom, 2004) guideline and the Erosion and Sediment Control Plan included in the CEMP required by condition C2.	Erosion and sediment control is to be managed in accordance with the Sediment and Erosion Control Plan provided in Appendix I. These works are to be installed prior to bulk earthworks commencing, and maintained throughout the duration of the project.		
B12	The Applicant must not commence any construction works on site until the temporary sediment basin in the Basin A area has been commissioned.	Noted		
B13	Prior to the commencement of operation of any stage of the development, the Applicant must design, install and operate a stormwater management system for the development. The system must:  (a) be designed by a suitably qualified and experienced person; (b) be prepared in consultation with Council; (c) be generally in accordance with:  (i) the conceptual design in the EIS and RTS; (ii) Council's Works Specification - Civil (Current Version); (iii) Council's Engineering Guide for Development (Current Version); (iv) Council's On-Site Detention General Guidelines and Checklist; and (v) Council's WSUD Standard Drawings A(BS)175M (Current Version); (d) be in accordance with applicable Australian Standards; (e) ensure post-development flow velocities of the relevant stormwater and drainage works match pre-development flow velocities; and (f) ensure that the system capacity has been designed in accordance with Australian Rainfall and Runoff (Engineers Australia, 2016) and Managing Urban Stormwater: Council Handbook (EPA, 1997) guidelines.	Noted. Appendix I, Appendix L, and Appendix O.		

TEMPORA	ARY ON-SITE DETENTION DURING CONSTRUCTION	
B14	Prior to the issue of a Construction Certificate for any stage of the development, the Applicant must provide stormwater detention in accordance with Council's Engineering Guide for Development. Basin A, including flow diversion line L4.1, or the interim stormwater works, must be completed to Council's satisfaction prior to construction of any stage of the development as follows:  a) Basin A and the associated flow diversion line are to be constructed in accordance with Council Plan Number E37/2V, or the latest version of that plan.  b) the proposed interim stormwater detention works are to be in accordance with the volumes and flow rates described in Orion Consulting Stormwater Management and Servicing Report, Sydney Business Park Stage 3, Astoria Street Marsden park, Revision D, October 2020; and c) the design levels for the interim stormwater detention works are to be coordinated with Council Plan E37/2V, or the latest version of that plan.	Noted. Appendix F details Temporary On- Site Detention Basin sequencing first.
NOISE	piaii.	<u> </u>
B15& B16	Hours of work  The Applicant must comply with the hours detailed in Table 1, unless otherwise agreed in writing by the Planning Secretary.  Earthworks and construction  Monday – Friday 7 am to 6 pm  Saturday 8 am to 1 pm  Operation Monday – Sunday 24 hours  Works outside of the hours identified in condition B15 may be undertaken in the following circumstances:  (a) works that are inaudible at the nearest sensitive receivers; (b) works agreed to in writing by the Planning Secretary; (c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or (d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.	Noted Refer Section 3.9
B17	Construction Noise Limits  The development must be constructed to achieve the construction noise management levels detailed in the Interim Construction Noise Guideline (DECC, 2009) (as may be updated or replaced from time to time). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the management and mitigation measures in the Appendix 2.	Noted Refer Appendix K
B18	The Applicant must prepare a Construction Noise Management Plan for the development to the satisfaction of the Planning Secretary. The Plan must form part of a CEMP in accordance with condition C2 and must  (a) be prepared by a suitably qualified and experienced noise expert;  (b) be approved by the Planning Secretary prior to the commencement of construction of each stage of the development;	Refer to Section 3.9 & Appendix K

	(c) describe procedures for achieving the noise management levels in EPA's Interim Construction Noise Guideline (DECC, 2009) (as may be updated or replaced from time to time);					
	(d) describe the measures to be implemented to manage high noise generating works such as piling, in close proximity to sensitive receivers;					
	, ,	e strategies that anaging high nois		eloped with the o	community	
	` '	be the communi gies in condition	•	undertaken to d	evelop the	
	, -,	e a complaints n mented for the c		tem that would levelopment.	be	
	The Applicant mu	st:				
B19	<ul> <li>(a) not commence construction of any relevant stage until the Construction Noise Management Plan required by condition B18 is approved by the Planning Secretary; and</li> <li>(b) implement the most recent version of the Construction Noise Management Plan approved by the Planning Secretary for the duration of construction.</li> </ul>					Noted Refer Section 3.9
	Operational Noise Limits  The Applicant must ensure that noise generated by operation of the development does not exceed the noise limits in Table 2.  Table 2 Noise Limits (dB(A))					
	Location	Day L <sub>Angiperiod)</sub>	Evening Languerood	Night LARG(period)	Night L <sub>vernax</sub>	
	I5 – 140 Hollinsworth Road, Marsden Park <sup>1</sup>	46	46	43	N/A	
	All residential properties to the north of the site <sup>1</sup>	40	35	35	52	
B20	All residential properties to the south of the site <sup>1</sup>	40	38	35	52	Noted
	<ol> <li>Noise generat accordance with including noise-cannoying noise close fresidential sense.</li> <li>Noise limit app traffic noise generated assessed in according to the free free free free free free free fr</li></ol>					
		adiloc With the p		, LI / LIVOVV NOCU		
B21	Noise Walls  The Applicant must construct the noise walls shown in Drawing GA-505, Revision P1 of the EIS, prior to the commencement of operation of any part of the development.				Noted	
B22	Noise Verification Report  A Noise Verification Report must be submitted to the satisfaction of the Planning Secretary at the following stages of the development:				Noted for Warehouse 2 & 3	

		T
	(a) prior to the final detailed design of Warehouse 2 and Warehouse 3 to confirm the noise mitigation measures required for their operation; and	
	(b) within three months of the commencement of operation of all four warehouses.	
	The Noise Verification Reports required by condition B22 must be prepared by a suitably qualified and experienced acoustic consultant and include:	
	(a) an analysis of compliance with noise limits specified in condition B22 undertaken to the satisfaction of the Planning Secretary and in accordance with the Noise Policy for Industry (EPA, 2017);	
B23	(b) a detailed maximum noise level event assessment for residential receiver R13 (refer Appendix 2) in accordance with the Noise Policy for Industry (EPA, 2017);	Noted for Warehouse 2 &
	(c) an assessment of the performance and effectiveness of applied noise mitigation measures together with a review and if necessary, re-assessment of mitigation measures identified; and	3
	(d) identification of additional noise control measures to be implemented to address any exceedances of the limits specified in condition B20 and when these measures are to be implemented and how their effectiveness is to be measured and reported to the Planning Secretary.	
ABORIGIN	IAL HERITAGE	
	Before the commencement of any clearing or construction works for the development, the Applicant must prepare an ACHMP for the development to protect and manage extant Aboriginal sites and objects located within the project area. The plan must form part of the CEMP required by Condition C2 and must:	
B24	(a) be prepared by a suitably qualified and experienced expert in consultation with the Registered Aboriginal Parties;	Appendix M
	(b) be submitted to the satisfaction of the Planning Secretary prior to construction of any part of the development; and	
	(c) include a long-term care and control management procedure for any aboriginal objects from the project area, including any extant sites.	
B25	The Applicant must:  (a) not commence construction until the ACHMP is approved by the Planning Secretary; and  (b) implement the most recent version of the ACHMP approved by the Planning Secretary for the duration of the development.	Issued to DPIE on 02/02/2021 for approval.

UNEXPE	CTED FINDS PROTOCOL	
B26	If any item or object of Aboriginal heritage significance is identified on site:  (a) all work in the immediate vicinity of the suspected Aboriginal item or object must cease immediately;  (b) a 10 m wide buffer area around the suspected item or object must be cordoned off; and  (c) the EES must be contacted immediately.	Refer to Appendix N
B27	Work in the immediate vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the <i>National Parks</i> and Wildlife Act 1974.	Noted
FIRE PR	OTECTION AND MANAGEMENT	
B28	Throughout the duration of the development, the Applicant must manage the whole site as an inner protection area as outlined in Section 4.1.3 and Appendix 5 of 'Planning for Bushfire Protection 2006' and the NSW Rural Fire Services' publication 'Standards for asset protection zones'.	Noted
B29	The Applicant must ensure each warehouse building and the identified elevations and building elements in the development complies with the NASH Standard (1.7.14 updated) 'National Standard Steel Framed Construction in Bushfire Areas - 2014' as appropriate or the specified bushfire attack levels (BAL) under Australian Standard AS3959-2009 'Construction of buildings in bush fire-prone areas' for:  Warehouse 2 - must be non-combustible and comply with Sections 3 and 5 (BAL 12.5) Australian Standard AS3959-2018 Construction of buildings in bush fire-prone areas or NASH Standard (1.7.14 updated) National Standard Steel Framed Construction in Bushfire Areas – 2014 as appropriate, and Section 7.5 of Planning for Bush Fire Protection 2019; and  Warehouse 4 - must comply with the Bushfire Attack Level (BAL) Plan (as shown in Figure 4 of the Bush Fire Report prepared by Eco Logical Australia, project no. 20SYD-16423, ver. 5, dated 8 December 2020) and the corresponding sections of the Australian Standard AS3959-2018 Construction of buildings in bushfire-prone areas or the relevant BAL requirements of the NASH Standard - Steel Framed Construction in Bushfire Areas (incorporating amendment A - 2015). New construction	Noted
B30	must also comply with the construction requirements in Section 7.5 of Planning for Bush Fire Protection 2019. BAL 12.5 is also applicable to the northern half of the building;  Access  Property access roads and public access roads must comply with the general	Noted
B31	requirements of Table 5.3b of <i>Planning for Bush Fire Protection 2019</i> .  Prior to the commencement of operation of the development, the Applicant must prepare a Bush Fire Emergency Management and Evacuation Plan in accordance with Development Planning: A Guide to Developing a Bush Fire Emergency Management and Evacuation Plan December (2014).	Noted

HAZARDS	S AND RISK		
B32	Dangerous Goods The quantities of dangerous good present at any time on-site or transported to and from the development must be kept below the screening threshold quantities listed in the Department's Hazardous and Offensive Development Application Guidelines Applying SEPP 33 (January 2011).		
B33	Dangerous goods, as defined by the Australian Dangerous Goods Code, must be stored and handled strictly in accordance with:  (d) all relevant Australian Standards;  (e) for liquids, a minimum bund volume requirement of 110% of the volume of the largest single stored volume within the bund; and  (f) the Environment Protection Manual for Authorised Officers: Bunding and Spill Management – technical bulletin (EPA, 1997).	Noted. Refer to Section 3.11	
B34	In the event of an inconsistency between the requirements (d) to (f), the most stringent requirement must prevail to the extent of the inconsistency	Noted	
B35	Bunding The Applicant must store all chemicals, fuels and oils used on-site in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, and/or EPA's Storing and Handling of Liquids: Environmental Protection – Participants Manual (Department of Environment and Climate Change, 2007).	Noted	
WASTE	1		
B36	The collection of waste generated during operation of the development must be undertaken between 7 am to 10 pm Monday to Friday.	Noted	
B37	The Applicant must:  (a) implement suitable measures to manage pests, vermin and declared priority weeds on the site; and  (b) inspect the site on a regular basis to ensure that these measures are working effectively, and that pests, vermin or priority weeds are not present on site in sufficient numbers to pose an environmental hazard or cause the loss of amenity in the surrounding area.	Noted	
B38	Prior to the commencement of construction of each warehouse, the Applicant must obtain agreement from Council for the design of the waste storage area for each warehouse.	Noted	
B39	Waste must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties.	Noted	

CONTAMINATION						
	Unexpected	d Finds				
B44	Prior to the unexpected material is a CEMP in accass contaminates of the the site.	Appendix N				
	Asbestos;					
B45	The Application remediation disposed on with the research.	Noted				
	(a)					
	(b)					
	(c)					
	(d)					
VISUAL A	MENITY	2014	•			
	Prior a Lan lands The p Mana must					
	(a)	(a) be prepared by a suitably qualified and experienced person(s);				
	(b)	detai	I the species to be planted on-site;			
	(c)	inclu	de a Street Tree Plan which must:	Noted. To be		
		(i)	include cross-sections showing dimensions of tree pits;	provided as		
B46		(ii)	detail tree species	part of each building and		
		(iii)	detail root protection barriers	civil works		
		(iv)	detail soil specifications	CEMP/CC.		
		(v)	detail the location of tree pits in relation to services, intersections and future driveway, light poles, stormwater pits, sewerage infrastructure and utilities; and			
		(vi)	detail street tree maintenance.			
	(d)	describe the monitoring and maintenance measures to manage revegetation and landscaping works; and				
	(e)		onsistent with the Applicant's Management and Mitigation sures at Appendix 3.			

	Landscaping	
B47	The Applicant must:	Noted. To be provided as part of each building and civil works CEMP/CC.
	(a) not commence operation until the Landscape Management Plan is approved by the Planning Secretary.	
	<ul><li>(b) must implement the most recent version of the Landscape</li><li>Management Plan approved by the Planning Secretary; and</li></ul>	
	(c) maintain the landscaping and vegetation on the site in accordance with the approved Landscape Management Plan required by condition B46 for the life of the development.	
B48	Lighting	
	The Applicant must ensure the lighting associated with the development:	
	(a) complies with the latest version of AS 4282-1997 - Control of the obtrusive effects of outdoor lighting (Standards Australia, 1997); and	Noted
	(b) is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.	
	Signage and Fencing	
B49	All signage and fencing must be erected in accordance with the development plans included in the RTS.	Noted
	Note: This condition does not apply to temporary construction and safety related signage and fencing.	
COMMUI	NITY ENGAGEMENT	Г
B50	The Applicant must consult with the community regularly throughout the development, including consultation with the nearby sensitive receivers identified in Appendix 2, relevant regulatory authorities, Registered Aboriginal Parties and other interested stakeholders.	Noted

## 3.4 Compliance and Other Requirements

MPD has identified the main legal, compliance and other regulatory requirements applicable to environmental management on the Sydney Business Park Stage 3, to ensure that activities are planned and managed to achieve regulatory compliance at all times.

The key legal and other requirements have been identified based on:

- a planning review of applicable instruments and the development consent; and
- feedback from the regulatory compliance and environmental performance of Sydney Business Park to date.

It is noted that the legal and other requirements register is not intended to provide a comprehensive description of the requirements of each instrument, nor an exhaustive list of legal requirements. It is also noted that legislation is subject to regular change and as such the information contained in the register may not be the most up-to-date.

Consequently, readers should not rely on the information in the register for regulatory compliance.

It is recommended that readers consult the NSW Government's legislative website, www.legislation.nsw.gov.au, for full copies of current legislation.

Instrument	Key Applicable Provisions		
Environmental Planning	Requires approval for certain (most) development;		
and Assessment Act 1979	Requires construction certificates and occupation certificates for building works		
Protection of the	Makes it an offence to pollute land, water or air;		
Environment Operations Act 1997	Requires environmental protection licences for certain facilities (note the Sydney Business Park Stage 3 development does not require a licence)		
Roads Act 1993	Requires consent from Council and/or the TNSW for works on public roads		
Biodiversity Conservation Act 2016	Provides protection measures for threatened species, populations and endangered ecological communities (note. The Sydney Business Park Stage 3 site is biocertified under the former Threatened Species Conservation Act 1995)		
Contaminated Land Management Act 1997	Provides provisions for management of contaminated land (nb. assessments have indicated that the Sydney Business Park Stage 3 development is suitable for its commercial/industrial land use)		
National Parks and Wildlife Act 1974	Provides protection measures for Aboriginal sites in accordance with the ACHMP.		
	Conditions B26 and B27 of the development consent require that works are to cease and EES consulted if any item or object of Aboriginal heritage significance is identified on site		
Heritage Act 1977	Provides protection measures for non-indigenous heritage items (nb. assessments have indicated that the Sydney Business Park Stage 3 site does not contain and known heritage items)		
Water Management Act 2000	Requires approvals to use groundwater or surface water or to undertake water management works or activities		
Noise Policy for Industry (EPA, 2017)	Provides procedures and guidance for noise monitoring and assessment		
Waste Classification Guideline (EPA, 2014)	Provides guidance for classification and management of waste		

Storing and Handling of Liquids: Environmental Protection – Participants Manual (EPA, 2007)	Provides guidance for storage and handling of liquids  Condition B35 of the development consent requires that all chemicals, fuels and oils are stored in appropriately bunded areas in accordance with the guideline
State Environmental Planning Policy No.33 – Hazardous and Offensive Development (SEPP 33), and the Applying SEPP 33 Guidelines (DPE, 2011)	Provides definitions and thresholds for hazardous and offensive industry Condition B32 and B33 of the development consent requires that quantities of dangerous goods stored and handled on site are below the threshold quantities in the Applying SEPP 33 guidelines at all times
Compliance Reporting Post Approval Requirements (DPE, 2018)	Provides guidance for undertaking compliance reporting  Conditions C11 and C12 of the development consent require compliance reporting in accordance with the guidelines
Independent Audit Post Approval Requirements (DPE, 2018)	Provides guidance for undertaking independent audits  Conditions A37 and C13 of the development consent require independent auditing in accordance with the guidelines

## 3.5 Environmental Management

## 3.5.1 Roles and Responsibilities

Mulgoa Quarries project staffs are required to:

- Lead by example;
- Encourage and support workers to work safely and with care for the environment; and
- Set priorities that reinforce safe and environmentally aware activities; and display ownership of areas under their control and assist project team members in overall EH&S management.

#### 3.5.2 Risk Assessment

Mulgoa Quarries environmental risk assessments and safe work method statement shall be used as the tool to identify risks to the environment associated with the scope of the work being undertaken by Mulgoa Quarries or its subcontractors.

#### 3.5.3 Reporting

When deemed necessary, the supervisor will inspect (and document) the site and, providing particular attention to the following matters:

- Daily visual inspection of sediment and erosion controls;
- Ensure that all controls operate effectively and initiate repair as required;
- Remove spilled soil (or other materials);
- Construct additional erosion and/or sediment control works as might become necessary to ensure the desired protection is given; and
- Maintain erosion and sediment control measures in a functioning condition until all earthwork activities are completed and the site is rehabilitated.

## 3.5.4 Training and Induction

Environmental awareness education and training in site requirements will be included in the site induction as detailed in the Environmental Management Plan (see Appendix E).

Subcontractor training and induction will be in accordance with Mulgoa Quarries Site Safety Management Plan induction protocols.

### 3.6 Construction Traffic Management

Construction traffic will be managed in accordance with the *Construction Traffic Management Plan (CTMP)* prepared to fulfil condition C3(a) of Development Consent SSD-10477 and contained within Appendix B.

### 3.7 Utilities

As per condition A32, relevant approvals from service providers shall be obtained from council prior to the construction of any utility works.

Compliance certificates for water and sewerage infrastructure servicing of the site under section 73 of the Sydney Water Act 1994 will be obtained prior to operation of the development.

## 3.8 Soil, Water Quality & Hydrology

The soil, water quality & hydrology will be managed according to *Stormwater Management Plan (SWMP)* provided by Orion which will assist to ensure appropriate soil and water management during the construction.

### 3.9 Noise

As per the conditions B15 to B19 of the Development Consent, the construction noise at site will be managed in accordance with relevant criteria. Construction works must be constructed to achieve the construction noise management levels details in the table below:

**Table 6** Construction Noise Management Levels

Receiver Location	Receiver Type	Noise Management Level dB LAeq (15min)
I1 – 376 South St Marsden Park	Industrial	70
I2 – 25 Harris Ave Marsden Park	Industrial	70
13 – 22 Astoria St Marsden Park	Industrial	70
I4 – 19 Astoria St Marsden Park	Industrial	70
I5 – 140 Hollinsowrth Road Marsden Park	Caravan Park in Industrial Zone	70
I6 – 105 Hollinsworth Road Marsden Park	Residence in Industrial Zone	70
W7 – 45 Hollinsowrth Road Marsden Park	Pace of Worship	55
18 – 23 Hollinsworth Rd Marsden Park	Industrial	70
19 – 24 Hollinsworth Rd Marsden Park	Industrial	70
R10 – 372 Dortmund Cr Marsden Park	Residential	45
R11 – 67B Amelia Way Bidwell	Residential	45
R12 – 11 Pine Cr Bidwell	Residential	45
R13 – 15 Loranthus Cr Bidwell	Residential	45
R14 – 8 Amaryllis Way Bidwell	Residential	45

To minimise the level of vibration and noise that is generated from construction activities on site and its impact on the surrounding businesses and workers, operating hours should not occur outside the approved hours.

The intent is for all works to be conducted within normal operating hours:

- 7am to 6pm Mondays to Fridays (inclusive);
- 8am to 1pm Saturdays; and
- Work on Sundays and Public Holidays is prohibited.

## 3.10 Waste Management

Construction waste will be managed in accordance with the *Waste Management Plan* WMP (Marsden Park Developments 2019 as per condition B36 to B39 of Development Consent SSD-10477.

All attempts will be made to minimise construction waste generation and implement reuse/recycling opportunities. MPD's overall objective is to achieve a minimum of (70%) for recycled waste (by weight) generated by the Project.

## 3.11 Hazards & Risk

The environmental controls that will be implemented to minimise the potential for environmental incidents relating to the storage, handling and transport of potentially hazardous goods are presented in **Table 7**.

**Table 7** Environmental Management Controls for Dangerous Goods

	Environmental Management Control	Person Responsible	Timing/ Frequency	Reference/ Notes
on-site or must be listed in	tities of dangerous goods present at any time r transported to and from the development kept below the screening threshold quantities the Department's Hazardous and Offensive ent Application Guidelines Applying SEPP 33 011).			Condition B32
Dangerous goods, as defined by the Australian Dangerous Goods Code, must be stored and handled strictly in accordance with:  (a) all relevant Australian Standards;		Site Management	On-going throughout construction	
(b)	for liquids, a minimum bund volume requirement of 110% of the volume of the largest single stored volume within the bund; and			Condition B35
(c)	the Environment Protection Manual for Authorised Officers: Bunding and Spill Management – technical bulletin (EPA, 1997).			

## 3.12 Competencies Training

### 3.12.1 Site and Environmental Induction

All personnel, including subcontractors are required to attend a compulsory site induction that includes an environmental component prior to commencement on site. The WH&S manager (or delegated person) will conduct the environmental component of the site induction.

The environmental component will include an overview of:

- Relevant details of the CEMP including purposes and objectives;
- Key environmental issues, i.e. protection of areas, dust and noise management;
- Conditions of environmental licences, permits and approvals;
- Specific environmental management requirements and responsibilities;
- Mitigation measures for the control of environmental issues;
- · Incident response and reporting requirements; and
- Information relating to the location of environmental constraints.

A record of all project and environmental inductions will be maintained and kept on site. The WH&S Manager may authorise amendments to inductions where required to address project changes, legislative changes or amendments to the CEMP.

## 3.12.2 Toolbox Talks, Training & Awareness

Toolbox talks will be used to raise awareness and educate project staff on construction related environmental issues. The toolbox talks will be used to ensure environmental awareness continues during construction.

Toolbox talks will be tailored to specific environmental issues including:

- Erosion and sedimentation control;
- Hours of work;
- Emergency and spill response;
- Aboriginal heritage;
- Noise & vibration;
- On-site water management;
- Housekeeping;
- Concrete washout;
- Dewatering; and
- Dust control.

Toolbox attendance is mandatory and attendees of toolbox talks are required to sign an attendance form. Records of toolbox talks will be maintained on site.

### 3.13 Environmental Complaints

## 3.13.1 Objective & Responsibility

Responsibility involves the handling of all environmental complaints relative to the construction. It is the assessment from the complaint being effectively received, handled and addressed.

In the event of an environmental complaint, the implementation of appropriate management and handling techniques are the responsibility of the site manager. **Section 3.12** outlines the toolbox talks and inductions that should be used to ensure that contractors are aware of an understand their obligation for incident response.

### 3.13.2 Handling Procedure

Upon becoming aware of a complaint, the protocol outlined below must be followed.

#### I. Receive

Typically, complaints are first brought to attention either by person or by telephone. A formal written complaint should be requested even though this should instigate investigative action.

The complainant's name, address and contact details, along with the nature of the complaint, must be requested. If the complainant refuses to supply the requested information, a note should be made on the form and complainant advised of this.

The site manager must be notified for all complaints taken by receipt, either verbal or written, by staff members. All contact details are provided in **Table 2**, where the site manager will be available 24 hours a day, seven days a weeks and has the authority to stop or direct works.

## II. Investigate

Investigation should take place to establish the legitimacy of the complaint and the cause of the problem. Any abnormality or incident that may have been established within the monitoring information provided around the time of the complaint must be identified and reviewed.

If the complaint is due to an incident, the notification requirements and handling procedures outlined in **Section 4.3.1** should be followed.

### III. Remedial Action

Once the complaint has been confirmed, remedial action must be implemented to fix the cause of the complaint and mitigate any further impact.

#### IV. Inform

Relevant authorities must be notified of all remedial action that is to take place post establishment of the complaint.

## V. Record

All assessments varying from investigation to remedial actions must be documented so that any similar complaints within the future can be avoided. Every complaint received must be completed in the complaint form which should be maintained for at least four years. The complaint should also be recorded within the Complaints Register.

### VI. Preventative Action

Once the complaint has been suitably handled, appropriate measures should be identified and implemented to negate the possibility of re-occurrence.

## 3.13.3 Complaints Register

A Complaints Register is to be maintained for the site should contain the following:

- A copy of the environmental complaint handling procedure;
- Blank hard copies of the Complaint Form; and
- Copies of all completed Complaint Forms, which are to be maintained on-site for at least four years after the event to which they relate.

Complaints made that are relevant to the project must be actioned immediately and effectively. All complaints are to be dealt with in accordance with the above mentioned procedure. Complaints register must be updated regularly. All items are to be closed out before progressing with any further work on site.

# 4 Environmental Actions

# 4.1 Relevant Conditions of Consent

Development Consent SSD-10477 imposes a number of conditions on Environmental Management, Reporting & Auditing Requirements. The conditions applicable to the bulk earthworks phase are listed in Table below.

Table 8 Environmental Management, Reporting & Auditing Requirements

No	Condition			Comment
ENVIRO	NMENTAL M	ANAC	GEMENT	
	Manageme			
	Mana accor			
	(a)	(a) detailed baseline data;		
	(b)	details of:		
		(i)	the relevant statutory requirements (including any relevant approval, licence or lease conditions);	
		(ii)	any relevant limits or performance measures and criteria; and	
		(iii)	the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	
	(c)	relev	scription of the measures to be implemented to comply with the vant statutory requirements, limits, or performance measures criteria;	
	(d)	a pro	ogram to monitor and report on the:	
C1		(i)	impacts and environmental performance of the development; and	See Table 1 in
		(ii)	effectiveness of the management measures set out pursuant to paragraph (c) above;	Section 1.2
	(e)	cons	ntingency plan to manage any unpredicted impacts and their sequences and to ensure that ongoing impacts reduce to levels w relevant impact assessment criteria as quickly as possible;	
	(f)		ogram to investigate and implement ways to improve the ronmental performance of the development over time;	
	(g)	a pro	otocol for managing and reporting any:	
		(i)	incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);	
		(ii)	complaint;	
		(iii)	failure to comply with statutory requirements; and	
	(h)	a pro	otocol for periodic review of the plan.	
	Note:		e Planning Secretary may waive some of these requirements if ey are unnecessary or unwarranted for particular management ans	

CONST	RUCTION ENVIRONMENTAL MANAGEMENT PLAN	
C2	The Applicant must prepare a Construction Environmental Management Plan (CEMP) in accordance with the requirements of condition C1 and to the satisfaction of the Planning Secretary.	This document
C3	As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:  (a) Construction Traffic Management Plan (see Condition B1 and B2)  (b) Erosion and Sediment Control Plan (see Condition B11 and B12);  (c) Construction Noise Management Plan (see Condition B18);  (d) Unexpected Finds Protocol (see Condition B44);  (e) Landscape Management Plan (see Condition B46); and  (f) Community Consultation and Complaints Handling.	Refer Section 3.5, Appendix B, Appendix L, Appendix I, Appendix K, Appendix D, Appendix N
C4	The Applicant must:  (a) not commence construction of the development until the CEMP is approved by the Planning Secretary; and  (b) carry out the construction of the development in accordance with the CEMP approved by the Planning Secretary and as revised and approved by the Planning Secretary from time to time.	Noted
REVISION	ON OF STRATEGIES, PLANS AND PROGRAMS	
C5	<ul> <li>Within three months of:</li> <li>(a) the submission of a Compliance Report under condition 12;</li> <li>(b) the submission of an incident report under condition C8</li> <li>(c) the approval of any modification of the conditions of this consent; or</li> <li>(d) the issue of a direction of the Planning Secretary under condition A2(b) which requires a review,</li> </ul>	Noted
C6	If necessary to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Planning Secretary. Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review	Noted

REPOR	TING AND AUDITING		
	Incident Notification, Reporting and Response		
C7	The Planning Secretary must be notified in writing via the Major Projects website immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 4.		
C8	Non-Compliance Notification The Planning Secretary must be notified in writing to the Major Projects website	Noted	
С9	within seven days after the Applicant becomes aware of any non-compliance.  A non-compliance notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.		
C10	A non-compliance which has been notified as an incident does not need to also be notified as non-compliance.	Noted	
C11	Within three months after the first year of commencement of operation, and in the same month each subsequent year (or such other timing as agreed by the Planning Secretary), the Applicant must submit a Compliance Report to the Planning Secretary reviewing the environmental performance of the development to the satisfaction of the Planning Secretary. Compliance Reports must be prepared in accordance with the Compliance Reporting Post Approval Requirements (Department 2020) and must also:  (a) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and  (b) describe what measures will be implemented over the next year to improve the environmental performance of the development	Noted	
C12	The Applicant must make each Compliance Report publicly available no later than 60 days after submitting it to the Planning Secretary and notify the Planning Secretary in writing at least 7 days before this is done.	Noted	
C13	Monitoring and Environmental Audits  Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance reporting and independent auditing.  Note: For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.		

ACCESS TO INFORMATION					
	At least 48 hours before the commencement of construction until the completion of all works under this consent, the Applicant must:				
	(a) make the following information and documents (as they are				
	obtained or approved) publicly available on its website:				
		(i)	the documents referred to in Condition A2 of this consent;		
		(ii)	all current statutory approvals for the development;		
		(iii)	all approved strategies, plans and programs required under the conditions of this consent;		
		(iv)	the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged;		
		(v)	regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent;		
C14		(vi)	a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;	Noted See Section 4.4	
		(vii)	a summary of the current stage and progress of the development;		
		(viii)	contact details to enquire about the development or to make a complaint;		
		(ix)	a complaints register, updated monthly;		
		(x)	the Compliance Report of the development;		
		(xi)	audit reports prepared as part of any Independent Audit of the development and the Applicant's response to the recommendations in any audit report;		
		(xii)	any other matter required by the Planning Secretary; and		
	(b)		such information up to date, to the satisfaction of the Planning etary.		

**Table 9** lists the contact details for authorities which must be notified once an incident has been established.. The person reporting the environmental incident should provide the following key details:

- Location of the pollution incident/emergency;
- Nature of the pollution incident/emergency;
- Their name and contact details; and
- Details of any required assistance

Table 9 Regulatory Authority Contact Details for Environmental Incidents

Regulatory Authority	Contact Details		
Department of Planning, Industry and Environment (DPIE)	1300 305 695 or 02 9228 6111 Email: compliance@planning.nsw.gov.au		
Environment Protection Authority (EPA)	Environmental Line – 131 555 Email: info@environment.nsw.gov.au		
SafeWork NSW	Incident Notification Hotline – 131 050 Select Option 3 to report a "Serious Incident or Fatality" – this will result in the incident being recorded and the appropriate person being contacted.		
Local Authority – Blacktown City Council	T: +61 2 9427 8100 Email: council@blacktown.nsw.gov.au		
Emergency Services	Emergency – 000 NSW Fire and Rescue – 000 or 1300 729 579		
NSW Health	02 9391 9000		

# 4.2 Management Plans

The Construction Environmental Management Plan - CEMP (This Document) is compiled to fulfil the condition C2 of consent conditions & in accordance with the requirements of condition C1. As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:

- Construction Traffic Management Plan (see Condition B1 and B2);
- Erosion and Sediment Control Plan (see Condition B11 and B12);
- Construction Noise Management Plan (see Condition 08);
- Unexpected Finds Protocol (see Condition B26);
- Landscape Management Plan (see Condition 06); and
- Community Consultation and Complaints Handling.

These management plans have been prepared in accordance with relevant guidelines, and include the following requirements, as applicable to the project:

- Details of relevant statutory requirements & any relevant limits or performance measures and criteria; and
  the specific performance indicators that are proposed to be used to judge the performance of, or guide the
  implementation of, the development or any management measures;
- A description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;
- A program to monitor and report on the: impacts and environmental performance of the development; and effectiveness of the management measures set out pursuant to paragraph above;

- A contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing
  impacts reduce to levels below relevant impact assessment criteria as quickly as possible;
- A program to investigate and implement ways to improve the environmental performance of the development over time;
- A protocol for managing and reporting any: incident and any non-compliance (specifically including any
  exceedance of the impact assessment criteria and performance criteria); complaint; failure to comply with
  statutory requirements; and
- A protocol for periodic review of the plan.

## 4.3 Reporting and Auditing

## 4.3.1 Incident Handling Procedure

Upon becoming aware of an environmental incident, the procedure outlined below must be followed:

#### I. Preventative Action

Where possible and safe to do so, immediate action should be taken to prevent, stop, contain and/or minimise the environmental impact of the incident.

Locations of emergency assembly areas must be made aware to contractors within site inductions and regular toolbox talks in the even that the incident requires the evacuation of the site.

#### II. Assistance

It is essential that Fire and Rescue NSW be contacted immediately for emergency assistance in the event that adequate internal resources are not available.

## III. Notify

It is imperative that a duty is notified to relevant authorities if an incident is established on site.

Fire and Rescue NSW will typically take over in the event of a serious incident or emergency, therefore it is imperative that you follow all instructions provided.

## IV. Investigate

Undertake immediate investigative work to determine the cause of the emergency.

## V. Remedial Action

Where possible, remedial action is to be implemented to understand the nature of the emergency. In some instances, an external consultation may be required to provide input into the matter.

## VI. Record

It is imperative that an honest assessment of the situation is carried out and documented in order to minimise the potential for similar events in the future. On this basis, every environmental incident is to be recorded in an Incident and Hazard Report. A copy of the completed report should be maintained for at least four years.

Condition C8 of Development Consent SSD-10477 requires that the relevant authorities be provided with a detailed report.

## VII. Preventative Action

Once the incident or emergency has been suitably handled, appropriate measures should be identified and implemented to negate the possibility of re-occurrence.

## 4.3.2 Incidents Register

An Environmental Incidents Register is to be maintained for the Development. The register should contain the following:

- A copy of the environmental incident notification requirements and handling procedure noted in section 4.3.1
- Site evacuation procedures;
- A separate reference sheet containing the contact details for the Site Manager, Project Manager and other Owners' Facility Managers and the contact details for the regulatory authorities listed above in Appendix E;
- Blank hard copies of the Incident and Hazard Report; and
- Copies of all completed Incident and Hazard Reports, which are to be maintained on-site for at least four years after the event to which they relate.

## 4.3.3 Environmental Monitoring and Auditing

Any condition that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance reporting and independent auditing.

# 4.4 Access to Information

As per condition C14 the below table summarises the means of providing the information publicly available.

Table 10 Access to Information

Information	Timing / Frequency	References / Notes / Availability
The following information will be made publicly available on Sydney Business Park website and the information kept up to date:		
(i) the documents referred to in condition A2 of this consent and the final layout plans for the development;		
(ii) Conditions of consent		
(iii) Any written directions of planning secretary		
(iv) EIS response to submission		Planning Portal
(v) Development Layout		Website
(vi) Management & mitigation measures		
(ii) all current statutory approvals for the development;		
(vii) all approved strategies, plans and programs required under the conditions of this consent;		
(iv) the proposed staging plans for the development if the construction, of the development is to be staged;		
(v) Marsden Park Developments will report environmental performances throughout the bulk earthworks phase during regular management meetings and toolbox talks. Items to be discussed include:		
Results of any monitoring activities undertaken;	Quarterly or as	Planning Portal
<ul> <li>Any environmental incidents that have occurred during the previous period, including the management / corrective actions taken; and</li> </ul>	needed	Website
Any complaints that have been received during the previous period, including any management / corrective actions taken.		
(vi) Marsden Park Developments will submit a summary of the current stage and progress of the development to LOGOS	Monthly	Planning Portal Website
(vii) Marsden Park Developments will display the contact details to enquire about the development or to make a complaint;	Throughout the project	Will be displayed on site entrance & Planning Portal Website
(viii) Marsden Park Developments will maintain a complaints register, updated monthly;	Monthly	Planning Portal Website
(ix) the Compliance Report of the development;	Quarterly or as needed	Planning Portal Website
(x) any other matter required by the Planning Secretary		

## 4.5 Bulk Earthworks CEMP Review

In accordance with condition C1 of Development Consent SSD-10477, this CEMP will be reviewed and, if necessary, revised within three months of the following:

- The determination of a modification; or
- The submission of an incident report.

Additionally, the CEMP will be reviewed and, if necessary, revised in the following circumstances:

- Where there is any change to the scope of the Development's construction activities;
- Where it is identified that the environmental performance of the bulk earthworks phase is not meeting the objectives of the CEMP; and/or
- At the request of the DPIE or other relevant government agency.

All employees and sub-contractors will be informed of any revisions to the CEMP by Site Management during toolbox talks.

## 5 REFERENCES

- MPD (2021) Construction Traffic Management Plan;
- Orion (2020) Stormwater Management Plan;
- MPD (2021) Waste Management Plan;
- MPD (2021) Community Consultation and Complaints Management Plan;
- Environment Protection Authority (2014) Waste Classification Guidelines; and
- Interim Construction Noise Guidelines (ICNG).

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

# **APPENDIX A**

Development Consent to SSD-10477

# **Development Consent**

# Section 4.38 of the Environmental Planning and Assessment Act 1979

As delegate of the Minister for Planning and Public Spaces under delegation executed on 9 March 2020, I approve the Development Application referred to in Schedule 1, subject to the conditions specified in Schedule 2.

These conditions are required to:

- prevent, minimise, or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- · require regular monitoring and reporting; and
- provide for the ongoing environmental management of the development

Mike Young

**Executive Director** 

Michael M

**Energy, Industry and Compliance** 

Sydney 28 January 2021

**SCHEDULE 1** 

Application Number: SSD-10477

Applicant: Marsden Park Developments Pty Ltd

Consent Authority: Minister for Planning and Public Spaces

Site: Astoria Street, Marsden Park, Blacktown local government

area

Lot 4 DP 1210172

Part Lots 50 and 51 DP 1265695

**Development:**Construction and operation of Sydney Business Park, Stage 3, including:

- four warehouse and distribution facilities
- ancillary car parking, infrastructure provision and landscaping
- nine lot subdivision
- earthworks
- vegetation clearing
- construction of two estate roads and associated infrastructure.

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# **DEFINITIONS**

	22
Applicant	Marsden Park Developments Pty Ltd, or any person carrying out any development to which this consent applies
BCA	Building Code of Australia
BC Act	Biodiversity Conservation Act 2016
Calendar year	A period of 12 months commencing on 1 January
Certifier	A person who is authorised by or under section 6 of the EP&A Act to issue Part 6 certificates
CEMP	Construction Environmental Management Plan
Conditions of this consent	Conditions contained in Schedule 2 of this document
Construction	The demolition and removal of buildings or works, the carrying out of works for the purpose of the development, including bulk earthworks, and erection of buildings and other infrastructure permitted by this consent.
Council	Blacktown City Council
Day	The period from 7 am to 6 pm on Monday to Saturday, and 8 am to 6 pm on Sundays and Public Holidays
Decommissioning	The controlled process of safely retiring a facility from service, including decontamination, dismantling and disposal after the cessation of operations.
Demolition	The deconstruction and removal of buildings, sheds and other structures on the site
Department	NSW Department of Planning, Industry and Environment
Development	The development described in Schedule 1, the EIS and Response to Submissions, including the works and activities comprising of four warehouse and distribution facilities, ancillary car parking, infrastructure provision and landscaping, nine lot subdivision, earthworks, vegetation clearing, construction of two estate roads and associated infrastructure.
Development layout	The plans at Appendix 1 of this consent
DPIE	Department of Planning, Industry and Environment
Earthworks	Bulk earthworks, site levelling, import and compaction of fill material, excavation for installation of drainage and services, to prepare the site for construction
EES	Environment, Energy and Science Group (former Office of Environment and Heritage)
EIS	The Environmental Impact Statement titled 'Stage 3 Facilities, Sydney Business Park Environmental Impact Statement' prepared by PJEP Environmental Planning Pty Ltd and dated August 2020
Environment	As defined in section 1.4 of the EP&A Act
EPA	NSW Environment Protection Authority
EP&A Act	Environmental Planning and Assessment Act 1979
EP&A Regulation	Environmental Planning and Assessment Regulation 2000
EPL	Environment Protection Licence under the POEO Act
Evening	The period from 6 pm to 10 pm
Heritage	Encompasses both Aboriginal and historic heritage including sites that predate European settlement, and a shared history since European settlement
Heritage item	An item as defined under the <i>Heritage Act 1977</i> , and assessed as being of local, State and/ or National heritage significance, and/or an Aboriginal Object or Aboriginal Place as defined under the <i>National Parks and Wildlife Act 1974</i> , the World Heritage List, or the National Heritage List or Commonwealth Heritage List under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth), or anything identified as a heritage item under the conditions of this consent
Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance

	Note: "material harm" is defined in this consent
Land	Has the same meaning as the definition of the term in section 1.4 of the EP&A Act
Material harm	Is harm that:
materiai narm	<ul> <li>a) involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or</li> <li>b) results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)</li> </ul>
Minister	NSW Minister for Planning and Public Spaces (or delegate)
Mitigation	Activities associated with reducing the impacts of the development prior to or during those impacts occurring
Monitoring	Any monitoring required under this consent must be undertaken in accordance with section 9.40 of the EP&A Act
Night	The period from 10 pm to 7 am on Monday to Saturday and 10 pm to 8 am on Sundays and Public Holidays
Non-compliance	An occurrence, set of circumstances or development that is a breach of this consent
Operation	The use of the warehouse and distribution facility as described in the EIS and RTS
Principal Certifier	Principal Certifier in accordance with the EP&A Act
Planning Secretary	Planning Secretary under the EP&A Act, or nominee
POEO Act	Protection of the Environment Operations Act 1997
Reasonable	Means applying judgement in arriving at a decision, taking into account: mitigation benefits, costs of mitigation versus benefits provided, community views, and the nature and extent of potential improvements.
Registered Aboriginal Parties	Means the Aboriginal persons identified in accordance with the document entitled "Aboriginal cultural heritage consultation requirements for proponents 2010" (DECCW)
Rehabilitation	The restoration of land disturbed by the development to a good condition, to ensure it is safe, stable and non-polluting.
Response to Submissions	The Applicant's response to issues raised in submissions received in relation to the application for consent for the development under the EP&A Act and includes the document titled 'Stage 3 Facilities, Sydney Business Park Response to Submissions' prepared by PJEP Environmental Planning Pty Ltd and dated November 2020 and the 'Stage 3 Facilities, Sydney Business Park Supplementary Response to Submissions' prepared by PJEP Environmental Planning Pty Ltd and dated December 2020
Sensitive receivers	A location where people are likely to work, occupy or reside, including a dwelling, school, hospital, office or public recreational area
Site	The land defined in Schedule 1
TfNSW	Transport for New South Wales
VENM	Virgin Excavated Natural Material
Waste	Has the same meaning as the definition of the term in the Dictionary to the POEO Act
Year	A period of 12 consecutive months

#### **SCHEDULE 2**

## PART A ADMINISTRATIVE CONDITIONS

#### **OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT**

A1. In addition to meeting the specific performance measures and criteria in this consent, all reasonable and feasible measures must be implemented to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from the construction and operation of the development, and any rehabilitation required under this consent.

#### **TERMS OF CONSENT**

- A2. The development may only be carried out:
  - (a) in compliance with the conditions of this consent;
  - (b) in accordance with all written directions of the Planning Secretary:
  - (c) in accordance with the EIS and Response to Submissions;
  - (d) in accordance with the Development Layout in Appendix 1; and
  - (e) in accordance with the management and mitigation measures in Appendix 3.
- A3. Consistent with the requirements in this consent, the Planning Secretary may make written directions to the Applicant in relation to:
  - (a) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the Planning Secretary; and
  - (b) the implementation of any actions or measures contained in any such document referred to in condition A3(a).
- A4. The conditions of this consent and directions of the Planning Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document listed in condition A2(c) or A2(e). In the event of an inconsistency, ambiguity or conflict between any of the documents listed in condition A2(c) or A2(e), the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.

#### LIMITS OF CONSENT

#### Lapsing

A5. This consent lapses five years after the date from which it operates, unless the development has physically commenced on the land to which the consent applies before that date.

#### NOTIFICATION OF COMMENCEMENT

- A6. The date of commencement of each of the following phases of the development must be notified to the Department in writing, at least one month (or as otherwise agreed by the Planning Secretary) before that date:
  - (a) construction;
  - (b) operation; or
  - (c) cessation of operations.
- A7. If the construction or operation of the development is to be staged, the Department must be notified in writing at least one month (or as otherwise agreed by the Planning Secretary) before the commencement of each stage, of the date of commencement and the development to be carried out in that stage.

#### **EVIDENCE OF CONSULTATION**

- A8. Where conditions of this consent require consultation with an identified party, the Applicant must:
  - (a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval; and
  - (b) provide details of the consultation undertaken including:
    - (i) the outcome of that consultation, matters resolved and unresolved; and
    - (ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.

# STAGING, COMBINING AND UPDATING STRATEGIES, PLANS OR PROGRAMS

- A9. With the approval of the Planning Secretary, the Applicant may:
  - (a) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or

- program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program);
- (b) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined); and
- (c) update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).
- A10. If the Planning Secretary agrees, a strategy, plan or program may be staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this consent.
- A11. If approved by the Planning Secretary, updated strategies, plans or programs supersede the previous versions of them and must be implemented in accordance with the condition that requires the strategy, plan or program.

## PROTECTION OF PUBLIC INFRASTRUCTURE

- A12. Before the commencement of construction, the Applicant must:
  - (a) consult with the relevant owner and provider of services that are likely to be affected by the development to make suitable arrangements for access to, diversion, protection and support of the affected infrastructure;
  - (b) prepare a dilapidation report identifying the condition of all public infrastructure in the vicinity of the site (including roads, gutters and footpaths); and
  - (c) submit a copy of the dilapidation report to the Planning Secretary and Council.
- A13. Unless the Applicant and the applicable authority agree otherwise, the Applicant must:
  - (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by carrying out the development; and
  - (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.

#### **DEMOLITION**

A14. All demolition must be carried out in accordance with *Australian Standard AS 2601-2001 The Demolition of Structures* (Standards Australia, 2001).

#### STRUCTURAL ADEQUACY

A15. All new buildings and structures, and any alterations or additions to existing buildings and structures, that are part of the development, must be constructed in accordance with the relevant requirements of the BCA.

Note:

- Under Part 6 of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works.
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.

## **SUBDIVISION**

- A16. Prior to the issuing of a Subdivision Certificate for any stage of the development, detailed work-as-executed drawings shall be prepared and signed by a Registered Surveyor, which show the finished surface levels of the access road, internal roads, drainage and any areas of fill, carried out under this consent. The work-as-executed drawing must be submitted to the Certifier and Council prior to the issue of a Subdivision Certificate.
- A17. Prior to the issuing of a Subdivision Certificate for any stage of the development, the Applicant must provide to the Certifier evidence that all matters required to be registered on title, including easements, have been lodged for registration or registered at the Land Registry Services.
- A18. Prior to the issuing of a Subdivision Certificate for any stage of the development, a certificate from an electricity and telecommunications provider must be submitted to the Certifier certifying that satisfactory service arrangements to the site have been established.

## **COMPLIANCE**

A19. The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.

# SPECIAL INFRASTRUCTURE CONTRIBUTION

A20. The Applicant is to make a Special Infrastructure Contribution in accordance with the *Environmental Planning and Assessment (Special Infrastructure Contribution - Western Sydney Growth Areas) Determination 2011* (as in force when this consent becomes operative).

A21. Prior to the issuing of any Occupation Certificate for works in relation to the development the subject of this consent, the Applicant must provide the Certifier with written evidence from the Planning Secretary that the liability to make the special infrastructure contribution for the development (or that part of the development for which the certificate is sought) has been discharged, or that arrangements are in force with respect to the discharge of the liability.

Note: More information about the special infrastructure contribution can be found on the Department's website at: http://www.planning.nsw.gov.au/Policy-and-Legislation/Infrastructure/Infrastructure-Funding/Special-Infrastructure-Contributions-SIC

#### CONTRIBUTIONS TO COUNCIL

A22. Before the issuing of an Occupation Certificate for any part of the development, a contribution under section 7.11 of the EP&A Act of \$9,068,279.00 (adjusted on a quarterly basis (from the date of this consent), to account for movements in the Australian Bureau of Statistics Consumer Price Index – Building Construction (NSW)), must be paid to Council for:

Contribution item	Amount
Stormwater Quantity – Little Creek	\$5,814,919.00
Stormwater Quality – Little Creek	\$280,158.00
Traffic Management	\$2,973,202.00
Total	\$9,068,279.00

#### **OPERATION OF PLANT AND EQUIPMENT**

- A23. All plant and equipment used on site, or to monitor the performance of the development, must be:
  - (a) maintained in a proper and efficient condition; and
  - (b) operated in a proper and efficient manner.

## TRANSGRID REQUIREMENTS

- A24. Prior to commencement of works within the TransGrid easement the Applicant must submit Final design plans to TransGrid. The final design plans must demonstrate:
  - (a) a vertical clearance of 8.0 m over the roadway
  - (b) fencing within the easement to not exceed 2.5 m in height
  - (c) a dust management plan is in place to ensure excessive dust is not deposited on the towers or insulators.
- A25. Height restrictions shall be applied to cranes, elevated work platforms and any other plant and equipment proposed to operate on the easement. This restriction applies to all mobile plant and equipment capable of exceeding a height of 4.2 m.
- A26. Prior to the issue of any Occupation Certificate, all fencing on the TransGrid easement shall be earthed and every second panel isolated from the next pair of fencing panels. Consultation with TransGrid is required for further instructions on the required earthing for the boundary fence.
- A27. The Applicant must formally notify TransGrid of any amendments or modifications to the development, including to ground surface levels within the easement.

## **EXTERNAL WALLS AND CLADDING**

- A28. The external walls of all buildings including additions to existing buildings must comply with the relevant requirements of the BCA.
- A29. Prior to the issuing of:
  - (a) any Construction Certificate relating to the construction of external walls (including the installation of finishes and claddings such as synthetic or aluminium composite panels); and
  - (b) an Occupation Certificate,

the Applicant must provide the Certifier with documented evidence that the products and systems proposed for use or used in the construction of external walls (including finishes and claddings such as synthetic or aluminium composite panels) comply with the requirements of the BCA.

A30. The Applicant must provide a copy of the documentation given to the Certifier to the Planning Secretary within seven days after the Certifier accepts it.

## **UTILITIES AND SERVICES**

A31. Before the construction of any utility works associated with the development, the Applicant must obtain relevant approvals from service providers.

- A32. Before the commencement of operation of the development, the Applicant must obtain a Compliance Certificate for water and sewerage infrastructure servicing of the site under section 73 of the Sydney Water Act 1994.
- A33. Before the issuing of a Subdivision or Occupation Certificate for any stage of the development, the Applicant (whether or not a constitutional corporation) is to provide evidence, satisfactory to the Certifier, that arrangements have been made for:
  - (a) the installation of fibre-ready facilities to all individual lots and/or premises in the development to enable fibre to be readily connected to any premises that is being or may be constructed on those lots; and
  - (b) the provision of fixed-line telecommunications infrastructure in the fibre-ready facilities to all individual lots and/or premises in the development demonstrated through an agreement with a carrier.
- A34. Before the issuing of the Occupation Certificate for the development the Applicant must demonstrate that the carrier has confirmed in writing it is satisfied that the fibre ready facilities are fit for purpose.

#### **APPLICABILITY OF GUIDELINES**

- A35. References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.
- A36. However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.

## MONITORING AND ENVIRONMENTAL AUDITS

A37. Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, Annual Review and independent environmental auditing.

Note: For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.

## **ADVISORY NOTES**

AN1. All licences, permits, approvals and consents as required by law must be obtained and maintained as required for the development. No condition of this consent removes any obligation to obtain, renew or comply with such licences, permits, approvals and consents.

#### PART B SPECIFIC ENVIRONMENTAL CONDITIONS

## TRAFFIC AND ACCESS

#### **Construction Traffic Management Plan**

- B1. Prior to the commencement of construction of the development, the Applicant must prepare a Construction Traffic Management Plan for the development to the satisfaction of the Planning Secretary. The plan must form part of the Construction Environmental Management Plan (CEMP) required by condition C2 and must:
  - (a) be prepared by a suitably qualified and experienced person(s):
  - (b) be prepared in consultation with Council;
  - (c) detail the measures that are to be implemented to ensure road safety and network efficiency during construction;
  - (d) detail heavy vehicle routes, access and parking arrangements;
  - (e) include a Driver Code of Conduct to:
    - (i) minimise the impacts of earthworks and construction on the local and regional road network;
    - (ii) minimise conflicts with other road users;
    - (iii) minimise road traffic noise; and
    - (iv) ensure truck drivers use specified routes;
  - (f) include a program to monitor the effectiveness of these measures; and
  - (g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.

#### B2. The Applicant must:

- (a) not commence construction until the Construction Traffic Management Plan required by condition B1 is approved by the Planning Secretary; and
- (b) implement the most recent version of the Construction Traffic Management Plan approved by the Planning Secretary for the duration of construction.

### **Roadworks and Access**

- B3. Prior to the commencement of operation of the development, the Applicant must complete the construction of the north-south collector road between Hollinsworth Road and Astoria Street and the extension of Hollinsworth Road to the western side of the site, to the satisfaction of Council. The Applicant must obtain approval all works in the existing public road reserve under section 138 of the *Roads Act 1993*.
- B4. The Applicant must submit design plans to Council which demonstrate that the proposed accesses to the development are designed to accommodate the turning path of a 30 m Super B-double vehicles.

## **Intersection Works**

- B5. The Applicant must undertake upgrade works to the Hollinsworth Road and Richmond Road intersection to the satisfaction of TfNSW. As part of these upgrade works, the Applicant must:
  - (a) submit concept civil design and Traffic Control Signal (TCS) plans to the satisfaction of TfNSW prior to the issue of a Construction Certificate for any stage of the development. The concept design plans must include:
    - (i) a left turn slip lane from Hollinsworth Road onto Richmond Road; and
    - ii) an additional right turn lane on the south bound approach to the intersection on Richmond Road
  - (b) provide written evidence to the Planning Secretary demonstrating the detailed design plans have been approved by TfNSW;
  - (c) enter into a Works Authorisation Deed (WAD) with TfNSW prior to the issue of an Occupation Certificate to undertake these intersection upgrade works; and
  - (d) complete the intersection upgrade works to the satisfaction of TfNSW on Hollinsworth Road and Richmond Road prior to the commencement of operation of the final stage of the development.
- B6. Notwithstanding the requirements specified in condition B5(a) and B5(b), the Applicant may carry out early preparatory construction works (including tree clearing, earthworks, retaining walls and infrastructure provision) prior to satisfying the requirements of condition B5(a) subject to traffic movements to and from the site not exceeding the following limits:
  - (a) 24 total traffic movements (12 in, 12 out) for the delivery and removal of equipment (graders, dozers, excavator, scrapers etc);
  - (b) 30 daily traffic movements (15 in, 15 out) for construction staff light vehicles; and
  - (c) No truck movements on Richmond Road for the importation or exportation of fill materials outside of the site.

## **Parking**

B7. The Applicant must provide sufficient parking facilities on-site, including for heavy vehicles and for site personnel, to ensure that traffic associated with the development does not utilise public and residential streets or public parking facilities.

## **Operating Conditions**

- B8. The Applicant must ensure:
  - (a) internal roads, driveways and parking (including grades, turn paths, sight distance requirements, aisle widths, aisle lengths and parking bay dimensions) associated with the development are constructed and maintained in accordance with the latest version of AS 2890.1:2004 Parking facilities Off-street car parking (Standards Australia, 2004) and AS 2890.2:2002 Parking facilities Off-street commercial vehicle facilities (Standards Australia, 2002);
  - (b) the swept path of the longest vehicle entering and exiting the site, as well as manoeuvrability through the site, is in accordance with the relevant AUSTROADS guidelines;
  - (c) the development does not result in any vehicles queuing on the public road network;
  - (d) heavy vehicles and bins associated with the development are not parked on local roads or footpaths in the vicinity of the site:
  - (e) all vehicles are wholly contained on site before being required to stop;
  - (f) all loading and unloading of materials is carried out on-site;
  - (g) all trucks entering or leaving the site with loads have their loads covered and do not track dirt onto the public road network;
  - (h) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times;
  - (i) there shall be no heavy vehicle movements along the driveway between Warehouse 2 and the eastern boundary between the hours of 10:00 pm and 7:00 am; and
  - (j) all roller doors/shutters on the eastern elevation of Warehouse 2 shall be closed between the hours of 10:00 pm and 7:00 am.

#### **Work Place Travel Plan**

- B9. Prior to the commencement of operation of any part of the development, the Applicant must prepare a Work Place Travel Plan to the satisfaction of the Planning Secretary. The Work Place Travel Plan must:
  - (a) be prepared in consultation with TfNSW;
  - (b) outline facilities and measures to promote public transport usage, such as car share schemes and employee incentives; and
  - (c) describe pedestrian and bicycle linkages and end of trip facilities available on-site.
- B10. The Applicant must:
  - (a) not commence operation until the Work Place Travel Plan is approved by the Planning Secretary; and
  - (b) implement the most recent version of the Work Place Travel Plan approved by the Planning Secretary for the duration of the development.

## SOILS, WATER QUALITY AND HYDROLOGY

## **Erosion and Sediment Control**

- B11. Prior to the commencement of any construction for the development, the Applicant must install and maintain suitable erosion and sediment control measures on-site, in accordance with the relevant requirements of the *Managing Urban Stormwater: Soils and Construction Volume 1: Blue Book* (Landcom, 2004) guideline and the Erosion and Sediment Control Plan included in the CEMP required by condition C2.
- B12. The Applicant must not commence any construction works on site until the temporary sediment basin in the Basin A area has been commissioned.

# **Stormwater Management System**

- B13. Prior to the commencement of operation of any stage of the development, the Applicant must design, install and operate a stormwater management system for the development. The system must:
  - (a) be designed by a suitably qualified and experienced person;
  - (b) be prepared in consultation with Council;
  - (c) be generally in accordance with:
    - (i) the conceptual design in the EIS and RTS;

- (ii) Council's Works Specification Civil (Current Version);
- (iii) Council's Engineering Guide for Development (Current Version);
- (iv) Council's On-Site Detention General Guidelines and Checklist; and
- (v) Council's WSUD Standard Drawings A(BS)175M (Current Version);
- (d) be in accordance with applicable Australian Standards;
- (e) ensure post-development flow velocities of the relevant stormwater and drainage works match predevelopment flow velocities; and
- (f) ensure that the system capacity has been designed in accordance with *Australian Rainfall and Runoff* (Engineers Australia, 2016) and *Managing Urban Stormwater: Council Handbook* (EPA, 1997) guidelines.

## **Temporary On-Site Detention**

- B14. Prior to the issuing of a Construction Certificate for any buildings on the site, the Applicant must provide stormwater detention in accordance with Council's Engineering Guide for Development. Basin A, including flow diversion line L4.1, or the interim stormwater works, must be completed to Council's satisfaction prior to the issue of an Occupation Certificate for any stage of the development as follows:
  - (a) Basin A and the associated flow diversion line are to be constructed in accordance with Council Plan Number E37/2V, or the latest version of that plan;
  - (b) the proposed interim stormwater detention works are to be in accordance with the volumes and flow rates described in Orion Consulting Stormwater Management and Servicing Report, Sydney Business Park Stage 3 Astoria Street Marsden Park, Revision D, October 2020; and
  - (c) the design levels for the interim stormwater detention works are to be co-ordinated with Council Plan E37/2V, or the latest version of that plan.

Note: In the event that the Basin A and flow diversion line works are not completed prior to the issue of an Occupation Certificate, a temporary pump diversion system for the interim stormwater waters is to be provided to divert the diversion volume referred to as dead or return storage in the in Orion Consulting Stormwater Management and Servicing Report, Sydney Business Park Stage 3 Astoria Street Marsden park, Revision D, October 202 away from the conservation area in the Little Creek catchment of Contributions Plan No. 21. The required diversion volume is 42mm depth over the development area. The design of the pump diversion system must be approved by Council.

## **NOISE**

## **Hours of Work**

B15. The Applicant must comply with the hours detailed in Table 1, unless otherwise agreed in writing by the Planning Secretary.

Table 1 Hours of Work

Activity	Day	Time	
Earthworks and construction	Monday – Friday Saturday	7 am to 6 pm 8 am to 1 pm	
Operation	Monday – Sunday	24 hours	

- B16. Works outside of the hours identified in condition B15 may be undertaken in the following circumstances:
  - (a) works that are inaudible at the nearest sensitive receivers;
  - (b) works agreed to in writing by the Planning Secretary;
  - (c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or
  - (d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.

## **Construction Noise Limits**

B17. The development must be constructed to achieve the construction noise management levels detailed in *the Interim Construction Noise Guideline* (DECC, 2009) (as may be updated or replaced from time to time). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the management and mitigation measures in the Appendix 3.

#### **Construction Noise Management Plan**

B18. The Applicant must prepare a Construction Noise Management Plan for the development to the satisfaction of the Planning Secretary. The Plan must form part of a CEMP in accordance with condition C2 and must:

- (a) be prepared by a suitably qualified and experienced noise expert;
- (b) be approved by the Planning Secretary prior to the commencement of construction of the development;
- (c) describe procedures for achieving the noise management levels in EPA's *Interim Construction Noise Guideline* (DECC, 2009) (as may be updated or replaced from time to time);
- (d) describe the measures to be implemented to manage high noise generating works such as piling;
- (e) include strategies that have been developed with the community for managing high noise generating works;
- (f) describe the community consultation undertaken to develop the strategies in condition B18(e); and
- (g) include a complaints management system that would be implemented for the duration of the development.

## B19. The Applicant must:

- (a) not commence construction of any relevant stage of the development until the Construction Noise Management Plan required by condition B18 is approved by the Planning Secretary; and
- (b) implement the most recent version of the Construction Noise Management Plan approved by the Planning Secretary for the duration of construction.

## **Operational Noise Limits**

B20. The Applicant must ensure that noise generated by operation of the development does not exceed the noise limits in Table 2.

Table 2 Noise Limits (dB(A))

Location	Day L <sub>Aeq(period)</sub>	Evening L <sub>Aeq(period)</sub>	Night L <sub>Aeq(period)</sub>	Night L <sub>AFmax</sub>
I5 – 140 Hollinsworth Road, Marsden Park <sup>1</sup>	46	46	43	N/A
All residential properties to the north of the site <sup>1</sup>	40	35	35	52
All residential properties to the south of the site <sup>1</sup>	40	38	35	52

Note 1. Noise generated by the development is to be measured and assessed in accordance with the provisions of the EPA Noise Policy for Industry (2017), including noise-enhancing meteorological conditions and corrections for annoying noise characteristics. Refer to the plan in Appendix 2 for the location of residential sensitive receivers.

## **Noise Walls**

Note:

B21. The Applicant must construct the noise walls shown in Drawing GA-505, Revision P1 of the EIS, prior to the commencement of operation of any part of the development.

If construction of noise walls is to be staged, the Applicant must submit a noise verification study to the satisfaction of the Planning Secretary to demonstrate that the development will comply with the noise limits in condition B20 at all times.

## **Noise Verification Report**

- B22. A Noise Verification Report must be submitted to the satisfaction of the Planning Secretary at the following stages of the development:
  - (a) prior to the final detailed design of Warehouse 2 and Warehouse 3 to confirm the noise mitigation measures required for their operation; and
  - (b) within three months of the commencement of operation of all four warehouses.
- B23. The Noise Verification Reports required by condition B22 must be prepared by a suitably qualified and experienced acoustic consultant and include:
  - (a) an analysis of compliance with noise limits specified in condition B22 undertaken to the satisfaction of the Planning Secretary and in accordance with the Noise Policy for Industry (EPA, 2017);
  - (b) a detailed maximum noise level event assessment for residential receiver R13 (refer Appendix 2) in accordance with the Noise Policy for Industry (EPA, 2017);
  - (c) an assessment of the performance and effectiveness of applied noise mitigation measures together with a review and if necessary, re-assessment of mitigation measures identified; and

<sup>2.</sup> Noise limit applies where an existing residence is affected by an increase in traffic noise generated by the development of greater than 2.0 dB(A). Additional road traffic noise emitted from public roads is to be measured and assessed in accordance with the provisions of the EPA NSW Road Noise Policy.

(d) identification of additional noise control measures to be implemented to address any exceedances of the limits specified in condition B20 and when these measures are to be implemented and how their effectiveness is to be measured and reported to the Planning Secretary.

#### **ABORIGINAL HERITAGE**

#### **Aboriginal Cultural Heritage Management Plan (ACHMP)**

- B24. Before the commencement of any clearing or construction works for the development, the Applicant must prepare an ACHMP for the development to protect and manage extant Aboriginal sites and objects located within the project area. The plan must form part of the CEMP required by Condition C2 and must:
  - (a) be prepared by a suitably qualified and experienced expert in consultation with the Registered Aboriginal Parties:
  - (b) be submitted to the satisfaction of the Planning Secretary prior to construction of any part of the development; and
  - (c) include a long-term care and control management procedure for any Aboriginal objects from the project area, including any extant sites.

## B25. The Applicant must:

- (a) not commence construction until the ACHMP is approved by the Planning Secretary; and
- (b) implement the most recent version of the ACHMP approved by the Planning Secretary for the duration of the development.

## **Unexpected Finds Protocol**

- B26. If any item or object of Aboriginal heritage significance is identified on site:
  - (a) all work in the immediate vicinity of the suspected Aboriginal item or object must cease immediately;
  - (b) a 10 m wide buffer area around the suspected item or object must be cordoned off; and
  - (c) the EES must be contacted immediately.
- B27. Work in the immediate vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the *National Parks and Wildlife Act 1974*.

# FIRE PROTECTION AND MANAGEMENT

## **Asset Protection Zones**

B28. Throughout the duration of the development, the Applicant must manage the whole site as an inner protection area as outlined in Section 4.1.3 and Appendix 5 of 'Planning for Bushfire Protection 2006' and the NSW Rural Fire Services' publication 'Standards for asset protection zones'.

## **Design and Construction**

B29. The Applicant must ensure each warehouse building and the identified elevations and building elements in the development complies with the NASH Standard (1.7.14 updated) 'National Standard Steel Framed Construction in Bushfire Areas - 2014' as appropriate or the specified bushfire attack levels (BAL) under Australian Standard AS3959-2009 'Construction of buildings in bush fire-prone areas'. The Applicant must ensure that:

#### Warehouse 2

(a) must be non-combustible and comply with Sections 3 and 5 (BAL 12.5) Australian Standard AS3959-2018 Construction of buildings in bush fire-prone areas or NASH Standard (1.7.14 updated) National Standard Steel Framed Construction in Bushfire Areas – 2014 as appropriate, and Section 7.5 of Planning for Bush Fire Protection 2019; and

#### Warehouse 4

(b) must comply with the Bushfire Attack Level (BAL) Plan (as shown in Figure 4 of the Bush Fire Report prepared by Eco Logical Australia, project no. 20SYD-16423, ver. 5, dated 8 December 2020) and the corresponding sections of the Australian Standard AS3959-2018 Construction of buildings in bushfire-prone areas or the relevant BAL requirements of the NASH Standard - Steel Framed Construction in Bushfire Areas (incorporating amendment A - 2015). New construction must also comply with the construction requirements in Section 7.5 of Planning for Bush Fire Protection 2019. BAL 12.5 is also applicable to the northern half of the building:

#### **Access**

B30. Property access roads and public access roads must comply with the general requirements of Table 5.3b of *Planning for Bush Fire Protection 2019.* 

## **Bush Fire Emergency Management Plan**

B31. Prior to the commencement of operation of the development, the Applicant must prepare a Bush Fire Emergency Management and Evacuation Plan in accordance with *Development Planning: A Guide to Developing a Bush Fire Emergency Management and Evacuation Plan December* (2014).

#### **HAZARDS AND RISK**

## **Dangerous Goods**

- B32. The quantities of dangerous goods stored and handled at the site must be below the threshold quantities listed in the Department of *Planning's Hazardous and Offensive Development Application Guidelines Applying SEPP 33* at all times.
- B33. Dangerous goods, as defined by the Australian Dangerous Goods Code, must be stored and handled strictly in accordance with:
  - (a) all relevant Australian Standards;
  - (b) for liquids, a minimum bund volume requirement of 110% of the volume of the largest single stored volume within the bund: and
  - (c) the Environment Protection Manual for *Authorised Officers: Bunding and Spill Management technical bulletin* (EPA, 1997).
- B34. In the event of an inconsistency between the requirements B31(a) to B31(c), the most stringent requirement must prevail to the extent of the inconsistency.

#### **Bunding**

B35. The Applicant must store all chemicals, fuels and oils used on-site in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, and/or EPA's Storing and Handling of Liquids:

Environmental Protection – Participants Manual (Department of Environment and Climate Change, 2007).

#### **WASTE**

- B36. The collection of waste generated during operation of the development must be undertaken between 7 am to 10 pm Monday to Friday.
- B37. The Applicant must:
  - (a) implement suitable measures to manage pests, vermin and declared priority weeds on the site; and
  - (b) inspect the site on a regular basis to ensure that these measures are working effectively, and that pests, vermin or priority weeds are not present on site in sufficient numbers to pose an environmental hazard or cause the loss of amenity in the surrounding area.
  - Note: For the purposes of this condition, priority weed has the same definition of the term in the Biosecurity Act 2015.
- B38. Prior to the commencement of construction of each warehouse, the Applicant must obtain agreement from Council for the design of the waste storage area for each warehouse.
- B39. Waste must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties.

## **Statutory Requirements**

- B40. All waste materials removed from the site must only be directed to a waste management facility or premises lawfully permitted to accept the materials.
- B41. The Applicant must assess and classify all liquid and non-liquid wastes to be taken off site in accordance with the latest version of EPA's Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014) and dispose of all wastes to a facility that may lawfully accept the waste.
- B42. Waste generated outside the site must not be received at the site for storage, treatment, processing, reprocessing, or disposal.
- B43. The Applicant must retain all sampling and waste classification data for the life of the development in accordance with the requirements of EPA.

#### **CONTAMINATION**

#### **Unexpected Finds**

B44. Prior to the commencement of earthworks for the development, the Applicant must prepare an unexpected contamination procedure to ensure that potentially contaminated material is appropriately managed. The procedure must form part of the of the CEMP in accordance with condition C2 and must ensure any material identified as contaminated must be disposed off-site, with the disposal location and results of testing submitted to the Planning Secretary, prior to its removal from the site.

#### **Asbestos**

- B45. The Applicant must ensure that any asbestos encountered during the remediation and construction works is monitored, handled, transported and disposed of by appropriately qualified and licensed contractors in accordance with the requirements of SafeWork NSW and relevant guidelines, including:
  - (a) Work Health and Safety Regulation 2017;
  - (b) SafeWork NSW Code of Practice How to Manage and Control Asbestos in the Workplace September 2016:
  - (c) SafeWork NSW Code of Practice How to Safely Remove Asbestos September 2016; and
  - (d) Protection of the Environment Operations (Waste) Regulation 2014.

#### **VISUAL AMENITY**

#### Landscaping

- B46. Prior to the commencement of construction of the development, the Applicant must prepare a Landscape Management Plan to manage the revegetation and landscaping works on-site, to the satisfaction of the Planning Secretary. The plan must form part of the Construction Environmental Management Plan in Condition C2 and must:
  - (a) be prepared by a suitably qualified and experienced person(s);
  - (b) detail the species to be planted on-site;
  - (c) include a Street Tree Plan which must:
    - (i) include cross-sections showing dimensions of tree pits;
    - (ii) detail tree species
    - (iii) detail root protection barriers
    - (iv) detail soil specifications
    - (v) detail the location of tree pits in relation to services, intersections and future driveway, light poles, stormwater pits, sewerage infrastructure and utilities; and
    - (vi) detail street tree maintenance.
  - (d) describe the monitoring and maintenance measures to manage revegetation and landscaping works; and
  - (e) be consistent with the Applicant's Management and Mitigation Measures at Appendix 3.

# B47. The Applicant must:

- (a) not commence operation until the Landscape Management Plan is approved by the Planning Secretary.
- (b) must implement the most recent version of the Landscape Management Plan approved by the Planning Secretary; and
- (c) maintain the landscaping and vegetation on the site in accordance with the approved Landscape Management Plan required by condition B46 for the life of the development.

#### Lighting

- B48. The Applicant must ensure the lighting associated with the development:
  - (a) complies with the latest version of AS 4282-1997 Control of the obtrusive effects of outdoor lighting (Standards Australia, 1997); and
  - (b) is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.

## Signage and Fencing

B49. All signage and fencing must be erected in accordance with the development plans included in the RTS.

Note: This condition does not apply to temporary construction and safety related signage and fencing.

#### **COMMUNITY ENGAGEMENT**

B50. The Applicant must consult with the community regularly throughout the development, including consultation with the nearby sensitive receivers identified in Appendix 2, relevant regulatory authorities, Registered Aboriginal Parties and other interested stakeholders.

## PART C ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

# **ENVIRONMENTAL MANAGEMENT**

#### **Management Plan Requirements**

- C1. Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:
  - (a) detailed baseline data;
  - (b) details of:
    - (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);
    - (ii) any relevant limits or performance measures and criteria; and
    - (iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures:
  - a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;
  - (d) a program to monitor and report on the:
    - (i) impacts and environmental performance of the development; and
    - (ii) effectiveness of the management measures set out pursuant to paragraph (c) above;
  - (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;
  - (f) a program to investigate and implement ways to improve the environmental performance of the development over time;
  - (g) a protocol for managing and reporting any:
    - (i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);
    - (ii) complaint;
    - (iii) failure to comply with statutory requirements; and
  - (h) a protocol for periodic review of the plan.

Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans

## **CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN**

- C2. The Applicant must prepare a Construction Environmental Management Plan (CEMP) in accordance with the requirements of Condition C1 and to the satisfaction of the Planning Secretary.
- C3. As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:
  - (a) Construction Traffic Management Plan (see Condition B1);
  - (b) Erosion and Sediment Control Plan (see Condition B11);
  - (c) Construction Noise Management Plan (see Condition B18);
  - (d) Unexpected Finds Protocol (see Condition B44);
  - (e) Landscape Management Plan (see Condition B46); and
  - (f) Community Consultation and Complaints Handling.
- C4. The Applicant must:
  - (a) not commence construction of the development until the CEMP is approved by the Planning Secretary; and
  - (b) carry out the construction of the development in accordance with the CEMP approved by the Planning Secretary and as revised and approved by the Planning Secretary from time to time.

## **REVISION OF STRATEGIES, PLANS AND PROGRAMS**

- C5. Within three months of:
  - (a) the submission of a Compliance Report under condition C11;
  - (b) the submission of an incident report under condition C7;
  - (c) the approval of any modification of the conditions of this consent; or
  - (d) the issue of a direction of the Planning Secretary under condition A2(b) which requires a review,

the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary must be notified in writing that a review is being carried out.

C6. If necessary to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Planning Secretary. Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review.

Note: This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.

## **REPORTING AND AUDITING**

## Incident Notification, Reporting and Response

C7. The Planning Secretary must be notified in writing via the Major Projects website immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 4.

## **Non-Compliance Notification**

- C8. The Planning Secretary must be notified in writing to the Major Projects website within seven days after the Applicant becomes aware of any non-compliance.
- C9. A non-compliance notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.
- C10. A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

#### **Compliance Reporting**

- C11. Within three months after the first year of commencement of operation, and in the same month each subsequent year (or such other timing as agreed by the Planning Secretary), the Applicant must submit a Compliance Report to the Planning Secretary reviewing the environmental performance of the development to the satisfaction of the Planning Secretary. Compliance Reports must be prepared in accordance with the Compliance Reporting Post Approval Requirements (Department 2020) and must also:
  - (a) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
  - (b) describe what measures will be implemented over the next year to improve the environmental performance of the development
- C12. The Applicant must make each Compliance Report publicly available no later than 60 days after submitting it to the Planning Secretary and notify the Planning Secretary in writing at least 7 days before this is done.

## **Monitoring and Environmental Audits**

C13. Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance reporting and independent auditing.

Note: For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.

## **ACCESS TO INFORMATION**

- C14. At least 48 hours before the commencement of construction until the completion of all works under this consent, the Applicant must:
  - make the following information and documents (as they are obtained or approved) publicly available on its website:
    - (i) the documents referred to in Condition A2 of this consent;
    - (ii) all current statutory approvals for the development;
    - (iii) all approved strategies, plans and programs required under the conditions of this consent;
    - (iv) the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged;
    - regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent;
    - (vi) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;

- (vii) a summary of the current stage and progress of the development;
- (viii) contact details to enquire about the development or to make a complaint;
- (ix) a complaints register, updated monthly;
- (x) the Compliance Report of the development;
- (xi) audit reports prepared as part of any Independent Audit of the development and the Applicant's response to the recommendations in any audit report;
- (xii) any other matter required by the Planning Secretary; and
- (b) keep such information up to date, to the satisfaction of the Planning Secretary.

# APPENDIX 1 DEVELOPMENT LAYOUT PLANS

Job No.	Drawing No.	Rev.	Date	Title	
Survey Pla	ns prepared by A	ndrew P	eter Ford		
33 444 Stage 3	Sheet 1 of 3 - 07/2020 Plan of proposed subdivision of Lots 1 & 2 in DP 1254181		Plan of proposed subdivision of Lot 4 in DP 1210172 and Lots 1 & 2 in DP 1254181		
33 444 Stage 3	Sheet 2 of 3	-	07/2020	Plan of proposed subdivision of Lot 4 in DP 1210172 and Lots 1 & 2 in DP 1254181	
33 444 Stage 3	Sheet 3 of 3	-	07/2020	Plan of proposed subdivision of Lot 4 in DP 1210172 and Lots 1 & 2 in DP 1254181	
Architectur	al Plans prepared	by Reic	Campbell Ar	chitecture, Interiors and Project Management	
	A000	0	30/11/2020	Cover Sheet / Drawing List	
	A001	С	20/10/2020	Perspectives	
	A002	K	26/11/2020	Site Analysis	
	A003	W	26/11/2020	Stage 3 Master Plan	
	A005	J	26/11/2020	Signage Strategy Plan	
	A006	F	26/11/2020	Staging Plan	
	A007	В	20/10/2020	Shadow Diagrams – Summer	
	A008			Shadow Diagrams – Winter	
	A009	В	20/10/2020	Shadow Diagrams – Autumn	
	A010	В	20/10/2020	Shadow Diagrams – Sprint	
	A011	E	26/11/2020	Landscape Overlay Plan	
Warehouse 1					
	A1001	Υ	26/11/2020	WH1 – Site Plan	
	A1002	Q	26/11/2020	WH1 – Roof Plan	
	A1101	R	26/11/2020	WH1 – Warehouse Floor Plan	
	A1102	s	26/11/2020	WH1 – Office Floor Plans	
	A1103	Q	26/11/2020	WH1 – Dock Office & Amenities Plan	
	A1201	Р	26/11/2020	WH1 – Elevations	
	A1202	М	26/11/2020	WH1 – Office Elevations	
	A1301	N	26/11/2020	WH1 – Sections	
Warehouse	2				
	A2001	0	26/11/2020	WH2 – Site Plan	

	T	Γ	I	
	A2002	G	26/11/2020	WH2 – Roof Plan
	A2101	G	26/11/2020	WH2 – Warehouse Floor Plan
	A2102	Н	26/11/2020	WH2 – Office Floor Plans
	A2201	G	26/11/2020	WH2 – Elevations
	A2202	F	26/11/2020	WH2 – Office Elevations
	A2203	А	26/11/2020	WH2 – Acoustic Wall Details
	A2301	F	26/11/2020	WH2 – Sections
Warehouse	3			
	A3001	M	26/11/2020	WH3 – Site Plan
	A3002	F	26/11/2020	WH3 – Roof Plan
	A3101	F	26/11/2020	WH3 – Warehouse Floor Plan
	A3102	G	26/11/2020	WH3- Office Floor Plans
	A3201	G	26/11/2020	WH3 – Elevations
	A3202	E	26/11/2020	WH3 – Office Elevations
	A3301	F	26/11/2020	WH3 – Sections
Warehouse	4			
	A4001	A	18/11/2020	WH4 – Site Plan
	A4002	Α	28/07/2020	WH4 – Roof Plan
	A4003	Α	28/07/2020	WH4 – Office Perspectives
	A4004	Α	28/07/2020	WH4 – Warehouse Perspectives
	A4101	С	03/08/2020	WH4 – Warehouse Floor Plans
	A4102	A	28/07/2020	WH4 – Office Floor Plans
	A4103	A	28/07/2020	WH4 – WH Amenities Plans
	A4201	В	31/07/2020	WH4 – Elevations
	A4201	A	28/07/2020	WH4 – Office Elevations
	A4202		28/07/2020	WH4 – WH Sections 1
		A		
	A4302	В	31/07/2020	WH4 – WH Sections 2
	A4303	Α	28/07/2020	WH4 - Office Sections
	A4401	Α	28/07/2020	WH4 – Typical Details
	GA-505	A	30/11/2020	WH4 – Acoustic Wall Details

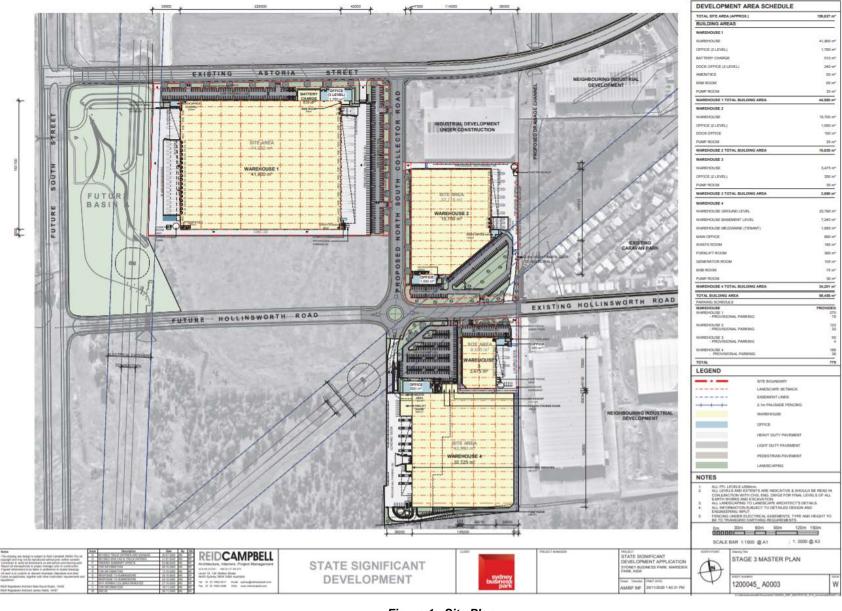


Figure 1: Site Plan

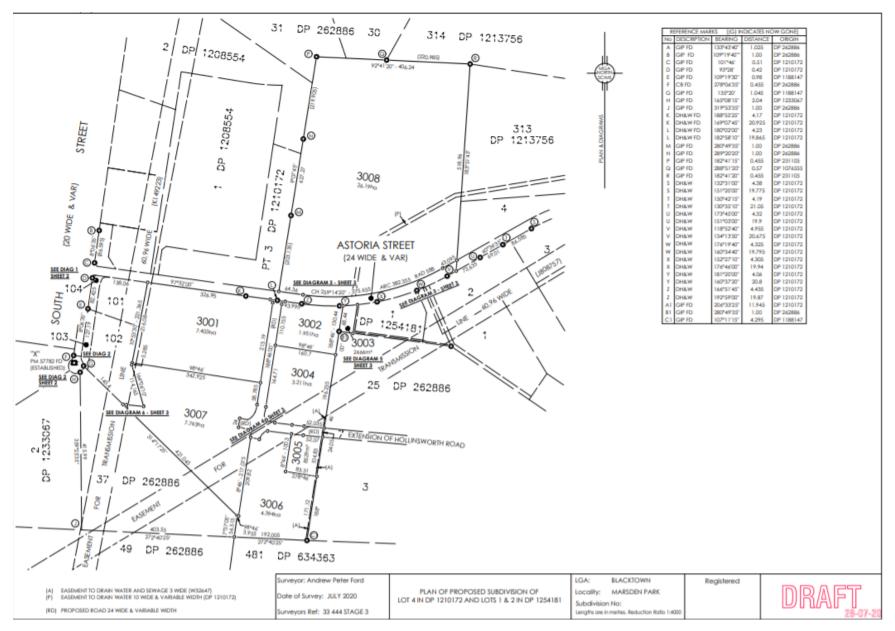
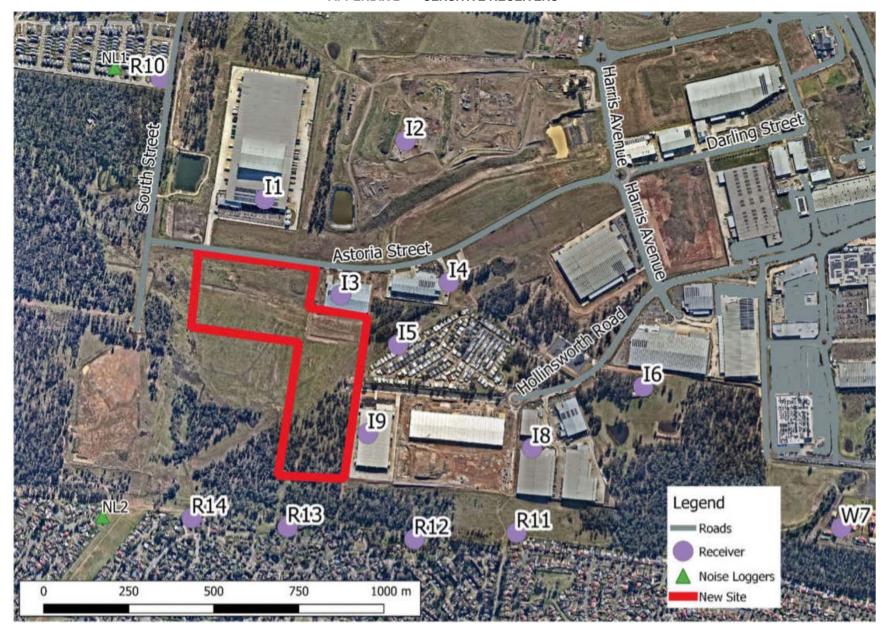


Figure 2: Subdivision Plan

# APPENDIX 2 SENSITIVE RECEIVERS



# APPENDIX 3 APPLICANT'S MANAGEMENT AND MITIGATION MEASURES

Issue	Mitigation Measure					
Staging and	Sydney Business Park would not commence construction works (involving land					
Infrastructure	disturbance) on site until the temporary sediment basin in the Basin A area has been					
	commissioned					
	Sydney Business Park would not commence operations of any building on site until					
	all infrastructure necessary for the operation of that building has been					
	commissioned, including:					
	<ul> <li>external roadworks (including Hollinsworth Road and/or the north-south</li> </ul>					
	collector road);					
	stormwater drainage infrastructure, either via:					
	- Basin E for Warehouse 3; or					
	- Basin A (temporary or permanent basin) for Warehouses 1, 2 and 4; and					
	o other services, including water, sewer, electricity and telecommunications					
	Sydney Business Park would enter into a voluntary planning agreement (VPA) or works in kind agreement (MIKA) with Council in accordance with Section 7.4 of the					
	works-in-kind agreement (WIKA) with Council, in accordance with Section 7.4 of the EP&A Act, to facilitate the proposed construction of relevant infrastructure, including					
	the:					
	Hollinsworth Road extension;					
	Hollinsworth Road / north-south collector road intersection roundabout; and					
	Basin A stormwater basin works.					
	The VPA or WIKA would be entered into prior to the commencement of construction					
	of the relevant infrastructure					
General	Sydney Business Park would prepare a detailed Construction Environmental					
Environmental	Management Plan (CEMP) for the Stage 3 Facilities development, prior to the					
Management	commencement of construction					
Design and	The Stage 3 Facilities would be developed generally in accordance with the					
Visual	architectural and landscape plans for the facilities					
	All external lighting would be installed in accordance with AS 4282(INT) - Control of					
	Obtrusive Effects of Outdoor Lighting					

Issue	Mi	tigation Measure			
Soil and	•	The Stage 3 Facilities would be developed generally in accordance with the Erosion			
Water		and Sediment Control Plan for the facilities, and the Department's Managing Urban			
		Stormwater – Soils and Construction guidelines			
	•	The Stage 3 Facilities would be developed generally in accordance with the salinity			
		management measures in the Salinity Assessment and Management Plan (Douglas			
		Partners, 2020), applicable Australian Standards including AS2159, AS3600 and			
		AS4058, and the Department's Building in a Saline Environment guideline			
	•	The Stage 3 Facilities would be developed generally in accordance with the concept			
		stormwater management plan for the facilities. A final stormwater management plan			
		would be prepared in consultation with Council prior to the commencement of			
		construction, including provision of:			
		o rainwater tanks for each facility;			
		o primary and secondary stormwater quality improvement devices and related			
		stormwater infrastructure for each facility; and temporary stormwater detention infrastructure in the Basin A area			
Noise and Air	_	Construction and operation of the Stage 3 Facilities would be managed in			
	-	accordance with the relevant noise criteria under the:			
Quality		Noise Policy for Industry (NPfl);			
		Interim Construction Noise Guideline (ICNG); and			
		Road Noise Policy			
	•	Construction activities would be undertaken generally within the hours stipulated in			
		the EPA's Interim Construction Noise Guideline			
	•	Construction noise would be managed in accordance with the measures outlined in			
		the Noise Assessment, which would be addressed the CEMP for the development.			
		The measures would include:			
		<ul> <li>noise management controls, including:</li> </ul>			
		- site induction training;			
		- operator instruction;			
		- site noise planning, including locating noisy plant away from nearby			
		receivers;			
		- scheduling noisy activities so that they do not occur simultaneously, and/or			
		during less sensitive time periods; and			
		selecting less noisy plant and equipment where practicable;      maintaining effective community consultation; and			
		maintaining effective community consultation; and     maintaining a complaints handling and management system			
	-	Sydney Business Park would implement the following noise mitigation measures as			
		soon as practicable during construction of the applicable facilities:			
		o installation of a 2.4 metre high acoustic wall on the eastern boundary of the			
		Warehouse 2 site:			
		o installation of a 2.7 metre high acoustic wall on the boundary in the south-			
		western corner of the Warehouse 4 site; and			
		o ensure that rooftop mechanical air-conditioning units are located towards the			
		western side of the office roof for Warehouse 2 and Warehouse 3 (with final			
		placement subject to detailed design)			
	•	Dust emissions during construction works would be managed in accordance with			
		standard best practice techniques, including:			
		<ul> <li>minimising the area of disturbance as far as practicable;</li> </ul>			
		<ul> <li>minimising drop heights for materials being worked on the site;</li> </ul>			
		o keeping exposed surfaces moist at all times;			
		rehabilitating/revegetating disturbed surfaces as soon as practicable; and			
		o ensuring that trucks are covered and do not track sediment onto public roads			
Greenhouse	•	The Stage 3 Facilities would be developed in accordance with the energy and water			
Gas and		resource use efficiency measures outlined in this EIS. This would include, amongst			
Resource Use		other things, rooftop photovoltaic solar systems for each warehouse, including			
		nominally:			

Issue	Mitigation Measure
	<ul> <li>1,000 kilowatt systems for Warehouse 1 (TJX Facility) and Warehouse 4 (AP</li> </ul>
	Facility); and
	<ul> <li>100 kilowatt systems for Warehouses 2 and 3</li> </ul>
Flora and	<ul> <li>Sydney Business Park would prepare and implement a Biodiversity Management</li> </ul>
Fauna	Plan (BMP) for the development, as part of the CEMP. The BMP would be prepared
	by a suitably qualified ecologist, and include:
	<ul> <li>biodiversity management strategies for pre-construction, construction and post</li> </ul>
	construction activities, including pre-clearing control measures;
	<ul> <li>a fauna rescue and release procedure, in accordance with the Department's</li> </ul>
	Code of Practice for injured, sick and orphaned protected fauna;
	<ul> <li>weed management measures;</li> </ul>
	<ul> <li>reuse of resources, including topsoil, tree hollows, logs, coarse woody debris</li> </ul>
	and bush rock;
	<ul> <li>identification and salvage of any tree hollows, and provision of nest boxes fo</li> </ul>
	hollows not able to be salvaged; and
	<ul> <li>procedures for dealing with any unexpected threatened species finds, including</li> </ul>
	provisions for stop work, notification and communication, specialist advice, and
	relocation protocols
Aboriginal	The identified Aboriginal heritage items (MPIP 17 and MPIP 18) would be managed
Heritage	in accordance with the recommendations of the Aboriginal Cultural Heritage
· · · · · · · · · · · · · · · · · · ·	Assessment, which would be addressed in an Aboriginal Cultural Heritage
	Management Plan for the development, prepared in consultation with the Registered
	Aboriginal Parties (RAPs) prior to the commencement of construction in the vicinity
	of the Aboriginal sites. These measures include:
	<ul> <li>surface collection of the identified artefacts prior to the commencement o</li> </ul>
	construction in these areas, in consultation with the Registered Aboriginal Parties
	(RAPs);
	<ul> <li>demarcation and fencing of the non-impacted portion of MPIP 18 (which</li> </ul>
	straddles the site boundary); and
	o procedures for managing any unexpected Aboriginal heritage objects
	encountered during the development.
Traffic	Sydney Business Park would complete the following roadworks to the satisfaction of
	Council, prior to the commencement of operation of any of the Stage 3 Facilities that
	require access from that road:
	<ul> <li>Hollinsworth Road extension to the western side of the site;</li> </ul>
	<ul> <li>North-south collector road between Astoria Street and Hollinsworth Road;</li> </ul>
	<ul> <li>Roundabout intersection between Hollinsworth Road and the north-south</li> </ul>
	collector road; and
	<ul> <li>Priority give-way intersection between Astoria Street and the north-south</li> </ul>
	collector road.
	Prior to the commencement of operation of any of the Warehouse Facilities, Sydney
	Business Park would enter into a delivery agreement (Works Authorisation Deed /
	Voluntary Planning Agreement) with TfNSW to deliver the Richmond Road upgrades
	generally in accordance with SMEC Concept Plan "30013007-Richmond-Rd-Align-
	01-SC", as outlined in the Supplementary RTS.
	Site access, parking and internal circulation arrangements for the Stage 3 Facilities
	would be developed in accordance with relevant Australian Standards (including
	AS2890.1 and AS2890.2). Measures to minimise conflict between pedestrians, cars
	and trucks would be implemented (including signage), particularly in shared areas
	(including the shared car and truck access to Warehouse 3).
	<ul> <li>Construction Traffic Management Plans would be prepared to appropriately manage traffic and traffic parents construction works.</li> </ul>
	traffic and traffic-safety construction works
	Sydney Business Park would prepare and implement a Green Travel Plan for the  development which would be appropried in appropriate the property of the pr
	development, which would be prepared in consultation with TfNSW prior to the

# Issue Mitigation Measure commencement of operation of any of the warehouse facilities. The plan would include: mode sharing targets and measures to achieve those targets; strategies to reduce the proportion of single occupant car travel and increase car sharing, public and active transport travel to the site; a strategy for communicating the plan to occupants, including a travel access guide providing information to occupants about sustainable travel options; measures for ensuring pedestrian and cycling connectivity and end of trip facilities; and identification of responsibilities for implementation of the plan Wastes and Hazards The Stage 3 Facilities would be developed and managed generally in accordance with the Waste Management Plan for the facilities

- The Stage 3 Facilities would be developed in accordance with the recommendations
  of the Bushfire Assessment for the facilities, including provision of:
  - Asset Protection Zones:
  - landscaping in accordance with the Planning for Bushfire Protection guidelines;
  - facility construction in accordance with the bushfire assessment and National Construction Code, including:
    - Warehouses 1 and 3 BAL-LOW;
    - Warehouse 2 ember protection measures;
    - Warehouse 4 roof, sub-floor, western, southern and eastern elevations constructed to BAL-FZ, and northern elevation to BAL-12.5; and
    - ember protection measures for applicable warehouses;
  - water supply and hydrants in accordance with the BCA and relevant Australian Standards:
  - underground electrical services; and
  - preparation of a Bushfire Emergency Management and Evacuation Plan for each facility
- All dangerous goods and hazardous substances would be stored in accordance with applicable standards, including AS/NZS 3833:2007 and AS 1940-2017
- Risk assessment and reporting would be undertaken in accordance with the Work Health and Safety Regulation 2017 (WHS Regulation)
- Hazardous area classification would be prepared for flammable gases and liquids storage in accordance with AS/NZS 60079.10.1:2009 and the requirements of the WHS Regulation
- Class 3 Flammable Liquids storage in Warehouse 4 would be restricted from the following areas of the warehouse, or as otherwise determined to ensure compliance with the screening thresholds in the Applying SEPP 33 guideline:
  - within 6 metres of the northern warehouse wall;
  - within 1 metre of the eastern warehouse wall; and
  - within 3 metres of the southern warehouse wall.

### APPENDIX 4 INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS

### WRITTEN INCIDENT NOTIFICATION REQUIREMENTS

- A written incident notification addressing the requirements set out below must be submitted to the Planning Secretary
  via the Major Projects website within seven days after the Applicant becomes aware of an incident. Notification is
  required to be given under this condition even if the Applicant fails to give the notification required under condition C7
  or, having given such notification, subsequently forms the view that an incident has not occurred.
- 2. Written notification of an incident must:
  - a. identify the development and application number;
  - b. provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);
  - c. identify how the incident was detected;
  - d. identify when the applicant became aware of the incident;
  - e. identify any actual or potential non-compliance with conditions of consent;
  - f. describe what immediate steps were taken in relation to the incident;
  - g. identify further action(s) that will be taken in relation to the incident; and
  - h. identify a project contact for further communication regarding the incident.
- 3. Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, the Applicant must provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.
- 4. The Incident Report must include:
  - a. a summary of the incident;
  - b. outcomes of an incident investigation, including identification of the cause of the incident;
  - c. details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and
  - d. details of any communication with other stakeholders regarding the incident.

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

### **APPENDIX B**

Construction Traffic Management Plan



# Construction Traffic Management Plan Sydney Business Park, Marsden Park Stage 3, Earthworks



Traffic Engineering
Transport Planning
Data Analysis
Consulting Services



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### **Revision History**

Issue	Date	Comments	
Draft	05/02/2021	For internal review.	
v1	08/02/2021	Issued for approval	
Prepared by:		Matthew Thompson	Matthew Thompson
Reviewed by:		Michael Palamara (PWZTMP: 0051679687)	Mihael Palanum

Table 1: Revision History

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Headway Traffic and Transport Pty Ltd does not accept any liability where assumptions have been made within this document. Assumptions will be clearly identified.

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HTTPS://HEADWAYTRAFFICANDTRANSPORT.SHAREPOINT.COM/SITES/PROJECTS/SHARED DOCUMENTS/1. PROJECTS/SBP 2101 - BEW STAGE 3, SYDNEY BUSINESS PARK/2. DELIVERABLES/1. CURRENT/SBP-2101 CTMP - SYDNEY BUSINESS PARK MARSDEN PARK STAGE 3 EARTHWORKS - V1.DOCX



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### References

Australian Standard 1742.3:2019 – Traffic Control for Works on Roads

AustRoads – Guide to Traffic Management Set

AustRoads – Guide to Temporary Traffic Management 2019

Transport for New South Wales – Supplement to Australian Standard 1742: Manual of Uniform
Traffic Control Devices Part 1-15

Transport for New South Wales – Traffic Control at Work Sites Manual Issue 6.0



### 1 Introduction

### 1.1 Authorisation

This Construction Traffic Management Plan (**CTMP**) is to be authorised by the Planning Secretary with the most recent version to be implemented as per the SSD-10477 Conditions of Consent B1, B2 and B6. A copy of the most recent CTMP is to remain onsite at all times.

All project personnel are to ensure that their work activities covered by this document and those of Project Consultants, Contractors and Suppliers are carried out in accordance with the requirements of this CTMP. It is the responsibility of the Project Manager to obtain appropriate approvals required for the implementation of this CTMP.

### 1.2 Development

This document has been developed by Headway Traffic and Transport on behalf of Sydney Business Park (SBP) to satisfy the requirements of the Development Consent SSD-10477 for the development of Sydney Business Park, Marsden Park, Stage 3 Bulk Earthworks.

### 1.3 Consultation

Documentation will be emailed to Blacktown Council to review this CTMP prior to submission for approval by Department of Planning and Environment (**DPIE**). This email correspondence can be found in **Appendix A: Email Correspondence**.

### 1.4 Scope of CTMP

This document identifies the current road conditions, impacts of the associated works, existing and future construction within the area and where necessary provides appropriate traffic management techniques for the safe management of vehicles and personnel accessing the site. This document;

- does not detail the implementation, monitoring, auditing or removal of the traffic control devices, and
- does not substitute the requirement of government or third-party approvals.



Other documents relating specifically to the works may be referenced within this CTMP. These documents are held and managed by SBP. SBP's Project Manager is responsible for maintaining, updating, and issuing any revisions of these documents as required.

### 1.5 Specific Conditions Addressed

Specific conditions to be addressed as per the Development Consent SSD 10477 are identified below with corresponding location within this document.

Condition	Comments & Link to Specific Location
B1. (a) be prepared by a suitably qualified and experienced person(s)	Table 1: Revision History.
B1. (b) be prepared in consultation with Council	1.3: Consultation
B1. (c) detail the measures that are to be implemented to ensure road safety and network efficiency during construction;	4: Construction Traffic Management 4.1: Impact to Existing Network
B1. (d) detail heavy vehicle routes, access and parking arrangements	4.4 Vehicle Access & Parking
B1. (e) Include driver code of conduct to:  i. minimise the impacts of earthworks and construction on the local and regional road network;  ii. minimise conflicts with other road users;  iii. minimise road traffic noise; and  iv. ensure truck drivers use specified routes;	Appendix C: Driver Code of Conduct i. 4: Construction Traffic Management ii. 4.1: Impact to Existing Network iii. 4.4 Vehicle Access & Parking iv. 4.4 Vehicle Access & Parking
B1. (f) include a program to monitor the effectiveness of these measures; and	0 Effectiveness of CTMP Measures
B1. (g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.	5.2: Community Notification
B2. (a) not commence construction until the Construction Traffic Management Plan required by condition B1 is approved by the Planning Secretary; and	1.1: Authorisation
B2. (b) Implement the most recent version of the Construction Traffic Management Plan approved by the Planning Secretary for the duration of construction.	1.1: Authorisation



B6. Notwithstanding the requirements specified in condition B5(a) and B5(b), the Applicant may carry out early preparatory construction works (including tree clearing, earthworks, retaining walls and infrastructure provision) prior to satisfying the requirements of condition B5(a) subject to traffic movements to and from the site not exceeding the following limits:  (a) 24 total traffic movements (12 in, 12 out) for the delivery and removal of equipment (graders, dozers, excavator, scrapers etc);	<ul><li>4.1.5 Oversized or Special Loads</li><li>4.1.6 Vehicle Generation</li><li>Table 6: Vehicle Generation</li></ul>
B6. (b) 30 daily traffic movements (15 in, 15 out) for construction staff light vehicles; and	Table 6: Vehicle Generation
B6. (c) No truck movements on Richmond Road for the importation or exportation of fill materials outside of the site.	2.1 Background

Table 2: Conditions

### 1.6 Feedback Received

Refer to **Appendix A: Email Correspondence**. If modifications are required to the CTMP, the comments and links to the modified sections will be provided here.



### 2 Project Details

### 2.1 Background

The Stage 3 earthworks involves the cut and fill of the site for the future construction of roads, warehouses and other infrastructure. It is anticipated that the project will be completed within 12 weeks. All fill will be originate from the site with no material to leave the site. There will be no movements on Richmond Road for the importation or exportation of fill materials outside the site.

### 2.1.1 Location

Location of site is shown below. Site is currently under construction and updates have not reflected in Google Maps.



Figure 1: Site Location - Source: Nearmap



### 2.2 Project Timeframe

### 2.2.1 Proposed Schedule

The development is expected to commence once all documentation is finalised. For reference of the project duration, an expected timeline in weeks is shown below. For further details refer to CEMP.

Phase	Timeline Weeks
Earthworks	10 weeks

Table 3: Proposed Schedule

### 2.2.2 Approved Working Hours

All work is scheduled to occur during the approved working hours as per the Development Consent Condition B15. These are listed below for reference.

Days of the Week	Approved Working Hours	Hours of vehicle movements
Monday – Friday	7am – 6pm	Vehicle movements are not
Saturday	8am – 1pm	expected to operate within the vicinity of the site until approved working hours
Sunday and Public Holidays	No work permitted	

Table 4: Council Approved Working Hours

Construction activities occurring outside of the above listed hours must do so in accordance with Condition B16.

### 2.3 Project Contacts

Name	Position	Office No.	Mobile No.
Owen Walsh	Development Director	n/a	0413 442 096

Table 5: Project Contacts



### 3 Existing Traffic Network

### 3.1 Astoria Street

Astoria Street is a two-lane two-way road with parking available on the verge on both sides. Astoria Street has been designed to facilitate vehicle movements up to B-Doubles. Access to Astoria Street is available from multiple points off Richmond Road.

### 3.1.1 Parking

Unrestricted on street parking is freely available within the precinct along the property boundaries of vacant or completed developments. On-street parking is not frequently used.

### 3.1.2 Cyclists

There are no signposted cycling routes. Upon entry into the precinct, shared footpath facilities have started being constructed. However, these end shortly into the precinct and are not yet suitable to be used. No other cycling facilities exist within the precinct.

### 3.1.3 Public Transport

The nearest public bus services (Service No. 751 & 757) operate immediately south of Astoria Street on Harris Avenue approximately 1 km from the entrance to the site.



### 4 Construction Traffic Management

All efforts have been made in the development project schedule to reduce the impact of the construction vehicles on the existing road network.

The sites proximity to the Richmond Road provides access for vehicles to quickly disperse into the state road network. The nature of the commercial/industrial area of the Marsden Park Precinct facilitates easy access for large vehicles.

With recent development/completion neighbouring lots, the impact of construction vehicles will not have any noticeable impact to the local or state road network.

There will be minimal impact to other sites during construction.

### 4.1 Impact to Existing Network

### 4.1.1 Pedestrian Network

There is minimal demand by pedestrians between sites and there is no expected impact to, or conflict with pedestrians as part of the construction.

### 4.1.2 Cyclists

It is not expected that there will be any significant impact to cyclists as there are no off-street or on-street cycling facilities. Access to the site will be dedicated vehicle access points that are currently in place.

As vehicle access will be restricted to a dedicated entrance/exit, any cyclists on Astoria Street will be treated as a road user subject to the New South Wales Road Rules.

### 4.1.3 Public Transport

While public transport services within the precinct, there are no bus services on Astoria Street. Apart from minor interaction between construction vehicles and buses in the normal road environment there will be no impact to public transport as a result of the works. As the bus services operates within the sites vicinity, it is practical for workers to use this service. As such, workers will be encouraged to use public transport where possible.



### 4.1.4 Emergency Vehicles

There will be no impact to emergency vehicles on the existing road network. If an incident occurs within the site, measures taken are outlined in the projects Emergency Management Plan (not found within the CTMP).

### 4.1.5 Oversized or Special Loads

Richmond Road is approved for Oversize and Overmass vehicles (Reference: NSW Oversize Overmass Load Carrying Vehicles Network map). Oversized loads will be required for the delivery of specialised earth moving equipment and machinery. These movements will be appropriately managed by the float company with permits and approvals from the National Heavy Vehicle Regulator **NHVR** as required. There is no need for special load deliveries.

### 4.1.6 Vehicle Generation

The table below shows the maximum vehicle movements during the peak of each project phase.

Project Phase	Range of Vehicles	Max Vehicle Movement	Hours	Largest Vehicle	Duration of Phase
Stage 1A: Delivery of Machinery	Specialised float vehicles	12 movement in	In accordance with regulatory requirements	n/a	1 week
Stage 1A: Earthworks and Ingrounds	Light Commercial Vehicle (LCV)	LCV - 15/day	In accordance with construction hours	LCV	12 weeks
Stage 1C: Removal of Machinery	Specialised float vehicles	12 movement out	In accordance with regulatory requirements	n/a	1 week

### Note:

- 1) LCV movements are only expected at beginning and end of day.
- 2) Note that the stages of works shown in weeks overlap to conform with the total expected duration of works.

Table 6: Vehicle Generation



### 4.2 Permits and Road Management Authority

No permits have been identified as being necessary as part of this development. If permits are identified as being required, appropriate documentation is to be completed with approval obtained prior to commencement of the associated works.

### 4.3 Road Cleaning

A street sweeper will be organised on a needs basis to clean any soil from Astoria Street.

### 4.4 Vehicle Access & Parking

All vehicles will be required to use the following access route to minimise disruption and noise in the established areas. There are no turn restrictions for vehicles accessing the site via Astoria Street.

Access: Richmond Road  $\Rightarrow$  Hollinsworth Road  $\Rightarrow$  Harris Avenue  $\Rightarrow$  Astroia Street  $\Rightarrow$  Site

Egress: Site → Astoria Street → Harris Avenue → Hollinsworth Road → Richmond Road



Figure 2: Vehicle Access Route - Source: Nearmap

### 4.5 Workers on Foot

There is no formed footpath within the industrial estate, any workers who walk to site will be advised to use caution when walking to site and to not walk on the roadway.

Internal pedestrian movements are managed on project progress.



### 5 Traffic Management

### 5.1.1 Authorised Traffic Controllers

Traffic control has not been deemed necessary on a continual basis for this project as vehicles have adequate access to the site and low pedestrian numbers experienced adjacent to the site. In instances where traffic controllers are required for a specific basis, the project manager will obtain a Traffic Control Plan (TCP) and apply for any appropriate permits to occupy the roadway.

### 5.1.2 Queuing

No vehicles will queue on public roads. Adequate space is available within the site. The arrival times of heavy vehicles have been considered when developing the project plan to minimise vehicle movements and remove the necessity for vehicles to wait within the site unnecessarily. The measures will be monitored as per.

### 5.2 Community Notification

At this stage there is no anticipated traffic related impacts to the community (namely, Ingenia Lifestyle Stoney Creek retirement village) as access will be via Astoria Street. If there is to be any change in relation to traffic related impacts to the community, the Project Manager will prepare an information sheet/letter to affected residents with the following minimum amount of information;

- Description and extent of impact
- Provide a minimum of 2 weeks notice
- Provide a contact number for affected residents to be able to obtain further information
- Provide a site contact number

Note that before any traffic changes occur, approval from the relevant authorities must be obtained.



# **Appendix A: Email Correspondence**

Email correspondence to be added once received.



# **Appendix B: Effectiveness of CTMP Measures**

The following is to be completed monthly or upon the identification of traffic related issues.

Have there been any identified traffic related issues? (i.e. co	nflict with pedestrians, cyclists		
or other road users). If Yes, specify issue and location.			
Can this be rectified by notifying workers during a toolbox	or similar? If Vas schodula for		
next toolbox.	or similar: If Tes, scriedule for		
TIERE COOLDON.			
Can this be rectified by other means? If Yes, specify action ta	ken.		
<i>If No</i> – Contact Headway Traffic and Transport.			
, ,			
Are vehicles queuing on Astoria Street while waiting for acce	ss into the site?		
If Yes – Can vehicle scheduling be amended?			
	- 60		
If scheduling cannot be amended contact Headway Traffic and Transport. Traffic Control may			
be required to manage site access.			
Is Hollinsworth Road clean and free of soil or other construct	ion related material?		
<i>If No</i> - Order street sweeper.			
Completed By:	Date:		



# **Appendix C: Driver Code of Conduct**



### Sydney Business Park - Stage 3 Bulk Earthworks

### **Code of Conduct**

### **Conditions of Entry to Site for Construction Works on the Project**

- The delivery and pick ups entry point is from the main entry off the Astoria Street. All vehicles must enter site via the entry gate before stopping at the designated delivery area.
- Under no circumstance are vehicles to stop, park, load/unload on Astoria Street.
- All vehicles must minimise noise (such as compression braking) on Astoria Street, particularly adjacent to the site and within the vicinity of the retirement village.
- Drivers to stop at designated delivery area and sign in on register in the site compound. Drivers are to organize to meet Subcontractor before driving on to site.
- You must wear a Hard Hat, Hi visibility vest and steel cap boots at all times when on site.
- Follow site 10km speed limit and watch out for any plant and pedestrian movements. Before
  commencing unloading/ loading, check your immediate surroundings for danger. Do not put your
  self or others at risk with your activities.
- Drivers must stay in the vicinity of his/her vehicle whilst unloading, if you are accompanied by
  others who have no need to be involved in the work activity, they are to stay in the vehicle at all
  times.
- If you need to go elsewhere such as the toilet or lunch rooms etc., you must ensure that your vehicle is in a safe condition to be left unattended, i.e. the engine is shut down, park brake is on and the keys are removed from the ignition.
- In the event of an emergency an ALARM will sound. When you hear the alarm, go directly to the evacuation assembly area. Do not attempt to remove your vehicle from site as this may interfere with the orderly evacuation of personnel. When it is safe to do so, RCC personnel will release you to remove your vehicle.
- All vehicles leaving site must have their loads covered and must not track dirt/mud on to Astoria
   Street.
- Site vehicles to Enter and Exit site in a forward-facing direction only via the signposted Entry and Exit gates Turning circle in place to eliminate reversing alarm noise generated by vehicles.
- Site vehicles to give way to existing traffic along the Astoria Street when exiting site.
- Trucks are not to be permitted to park on hardstand overnight.
- No Truck or Vehicle Maintenance is to be undertaken or occur onsite.



### **Hours of Work**

Access to and from site are limited by the following hours:

Monday to Friday: 07:00 to 18:00;

• Saturday: 08:00 to 13:00; and

• Sunday and Public Holidays: Site Closed.

### **Access Plan**



### Induction

I have read the attached site induction. I fully understand its contents and agree to comply with the onsite requirements.

Name	Date	Registration	Signature

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

### **APPENDIX C**

Construction Waste Management Plan

# SYDNEY BUSINESS PARK STAGE 3 BULK EARTHWORKS

**CONSTRUCTION WASTE MANAGEMENT PLAN** 

29/01/2021



# **Contents**

Revisi	on	3
1	Introduction	. 4
	Objectives and Targets	
	Reporting	
	Estimated Quantities	

# Revision

Rev Date	Revision Description	PM's Initials (i.e. acceptance of changes)
29/01/21	Original Issues	ow

# 1 Introduction

This Construction Waste Management Plan forms part of the Project Management Pan for Sydney Business Park Stage 3 SSD-10477 Earthworks.

### 1.1 Purpose of the Plan

Marsden Park Developments (MPD) recognises the importance of promoting building design and construction techniques which minimise waste and provides an efficient recycle procedure for all waste material.

The purpose of this plan is to outline processes for:

- Objectives and Targets;
- Operational Controls;
- Recording, Monitoring Corrective Action; and,
- Reporting.

# 2 Objectives and Targets

MPD's overall objective is to achieve a minimum of (80%) for recycled waste (by weight) generated by the Project.

The Operational Controls implemented to achieve this include:

<b>Operational Controls</b>	Method of Recording	
General Identify any hazardous and toxic materials (e.g. asbestos) and comply with WorkCover requirements.		Hazardous substance survey
	Develop project Waste Management Plan	Waste Records
	Try not to over-order on materials (initial waste avoidance).	Inductions
	Communicate housekeeping & litter reduction rules with subcontractors during contract letting and site inductions.	
Implement the waste I	nierarchy – avoid, reuse, recycle and lastly disposal to landfill.	
RECYC  RECOV  DISPOS  INCREASED CONSERVATION OF RESOURCES	Monthly Waste Report	
Demolition Plan	Demolition Plan  Demolition disposal for concrete, bricks, plasterboard, timber, tiles, PVC, metal, paper & cardboard, glass, appliance, carpet, vegetation, soil – to Recycled Facility	

<b>Operational Controls</b>		Method of Recording
	accordance with WHS Act & Regulation 2012 and EPA requirements.  Lead paints & dusts will be removed using we sanding and vacuum techniques (cleaners which comply with AS/NZS 3544 Industrial vacuum cleaners for particulates hazardous to health). Waste will be contained within sealed plastic bags for disposal. Clean up with a wet mop.	
Consider recycling reprocessing	Where practicable: Timber for reuse or mulching Aluminium wall frames – reprocess Plasterboard – recycled or use as soil improvers Steel – reprocess Toughened Glass – reprocess Carpet & underlay – reprocess & mulch mats	Monthly Waste Report
Product Stewardship	Investigate returning waste to the supplier? (e.g. plasterboard, packaging)	Contract/ Supply agreem'ts
Putrescibles Waste	Putrescible waste is to be contained in bins and collected by licenced contractor for disposal	Invoices
Contaminated Soils	Contaminated soils will be excavated and classified in accordance with EPA guidelines "Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes" (June 2004) — www.environment.nsw.gov.au/waste/envguidlns/index.ht m.	RAP Reports Test Reports Waste Records Disposal Dockets
Virgin Excavated Natural Materials (VEMN)	VENM excavated from site with suitable compaction qualities will be beneficially re-used on other construction sites whenever possible. Disposal to landfill will be the last option.  No fill will be received on site that does not comply with EPA guidelines i.e. Contamination limits appropriate to the development.	Test Reports Waste Records Disposal Dockets
Acid Sulphate Soils (ASS)	Potential for acid sulphate soils ASS will be assessed based on the sites proximity to low-lying coastal areas e.g. coastal plains, wetlands and mangroves where the surface elevation is less than five metres above mean sea level. If suspected, consultant to prepare Acid Sulphate Soil Management Plan (ASSMP).  Excavation and neutralisation to be supervised by consultants as per ASSMP.	ASSMP Test Reports Product delivery (lime) dockets Site Plans
Monitoring	Bin(s) with heavy lids shall be provided for putrescibles waste  Daily inspections shall be carried out to ensure the worksite is litter free.	Env. Inspection Checklist
Reporting	Waste reports/management plans indicate estimated waste min (80%) of accumulated totals for the project.	Monthly Reports
Non-Compliance	Generation of water pollution and/or air pollution from onsite waste storage	Env. Inspection Checklist Incident Report, NCRS

Operational Controls	Method of Recording	
	Inappropriate/illegal off-site disposal of waste materials Asbestos & CCA treated timber contamination of recoverable waste stream thereby requiring landfill disposal.	
Emergency Response  No specific requirements associated with waste management  Scenarios such as spill, fires, explosions covered by the project emergency response plans.		Incident Report

# 2.1 Estimated Waste Quantities: Use This to Estimate the Waste Quantities

Source Blacktown Council Waste Not Development Control Plan (internet, http://www.blacktown.nsw.gov.au/planning-anddevelopment/waste-not-overview\_home.cfm, 2007).

Factory (per 1000 m2)				
Waste Type	Conversion (t to m3)	Demolition (t)	Construction (t)	
Excavated Material	1.8 t/m3	na	na	
Concrete	2.4 t/m3	448	0.25	
Bricks	1.0 t/m3	205	2.10	
Timber Gyprock	Timber 0.5 t/m33 Gyprock: 0.75 t/m3	4	1.65	
Steel	2 -4 t/m3	23	0.45	
Roof Tiles	0.75 t/m3	na	4.80	
Other	0.05 t/m3	?	0.60	

Office Block (per 1000 m2)				
Waste Type	Conversion (t to m3)	Demolition (t)	Construction (t)	
Excavated Material	1.8 t/m3	7,410	5.10	
Concrete	2.4 t/m3	1,485	18.80	
Bricks	1.0 t/m3	124	8.50	
Timber Gyprock	Timber 0.5 t/m33 Gyprock: 0.75 t/m3	29	8.60	

# 3 Reporting

### General waste reporting:

Nominated member of the project team will be responsible for collecting monthly waste reports and issuing them to the Project Manager and Client Representative.

These reports will measure the weight of waste generated of material by classification, total weight of waste, percentage by weight recycled and percentage by weight to landfill.

# 4 Estimated Quantities

The Waste management plan – Construction chart (Form 18.2b) is an estimate of the core waste streams that will be removed from the Stage 3 Estate Earthworks and Warehouse 4 project. Waste to be removed will be assessed for the Reuse & recycling content and the Disposal to landfill.

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

### **APPENDIX D**

Community Consultation and Complaints Handling Plan

# SYDNEY BUSINESS PARK STAGE 3 BULK EARTHWORKS

COMMUNITY CONSULTATION AND ENGAGEMENT PLAN

11/02/2021



# **Contents**

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# Revision

Rev Date	Revision Description	PM's Initials (acceptance of changes)
27/01/2021	Original Issues	ow
11/02/2021	Formatting Update	OW

# Introduction

This Community Consultation and Engagement Plan forms part to the CEMP for SSD-10477.

### Purpose of the Plan

Marsden Park Developments (MPD) recognises the importance of trust in relationship building with stakeholders involved with the project. Consequently, being accountable is paramount and we seek to be transparent with our communications and documentation.

Further, in line with our company commitment to continual improvement, we constantly aim for a greater level of engagement and interaction with stakeholders, particularly when our project activities may impact on the communities in which we operate.

The purpose of this plan is to outline processes for:

- Achieving our Objectives and Targets;
- Consultation Strategies;
- Identification of Stakeholders;
- Responsibilities for Implementing the Plan; and
- Stakeholder Grievances and Concerns.

# **MPD** Objectives and Targets

MPD's overall objective is to promote an open communications environment that will minimise disruptions and issues for both the project team and the community.

To support this, and in line with commitments made in MPD's Environmental Policy, project level objectives and targets include:

- Community complaints are to be actioned within 24hours;
- No repeat complaints for the same issue.

# Description of the Project

### General

Cut-to-fill bulk earthworks within Stage 3 Bulk Earthworks.

### **Hours of Operation**

The Development Consent hours of operation for the construction project are:

Monday to Friday 7:00am to 6:00pm and Saturday 8:00am to 1:00pm

### **Proposed Timeframes**

The table below provides an overview of the construction activities and the timeframe for the works.

Construction Activities –		
Activity	Methodology	Timeframe
Site set up including environmental controls	Perimeter fencing / sediment controls / site hoardings	
Bulk earthworks & spoil removal	Site clearance/strip top soil/filling/proof roll & trim	
In ground services	Civil (stormwater) / Electrical / Mechanical / Hydraulic	
Footings, foundations & anchors	Footings to Warehouse (including offices)	
BDR Building Delivery and Installation	Structural Steel / Precast / Roof & Wall Cladding / High level services	
Fit-out of final finishes & furniture	Fit-out to amenities and offices	
External works incl. pavements, landscaping	External hardstand, carpark and landscaping	

# Site Management Contact Details

Key contact details are provided below:

Position	Name	Phone (W)	Phone (M)
Stage 3 – Bulk Earthw	orks		
Development Director	Owen Walsh		0413 442 096
Infrastructure Director	Michael Gray		0425 343 672
Site Manager	Max Sarkis		0407 327 745

# Balancing Community Expectation and MPD Obligations

Balanced community engagement involves both a commitment from MPD and an expectation from the community, as summarised below.

	Inform	Consult	Involve	Collaborate
Community Expectation	To get balanced and objective information about aspects of the project that impact on us	To be asked our opinions and allow us to provide feedback to the company on the matters that concern us	To be involved in the decision making process and the exploration of alternatives regarding those issues that are of concern to us	To create a partnership with us whereby we have faith that our concerns and ideas are integrated into the decision making process
MPD Obligation	We will keep the community well informed	We will listen and acknowledge community concerns and provide evidence that concerns are considered in decision making	We will work with the community to make sure concerns and issues are reflected in any alternatives developed. Provide feedback to the community on how their inputs has influenced outcomes	We will look to the community for advice and innovation in solving issues and concerns and incorporate their advice into the decision making process to the maximum extent possible.

# Consultation and Strategy/Our Approach to Dialogue

#### General

Community consultation can be involving, meaningful, useful and effective if the following principles are used as a starting point for making consultation work:

- Making it timely: participation should not be so late in the process of an issue that it is tokenistic or merely confirms decisions already made. Give people enough time to express their views.
- Making it inclusive: Participation should be selected in a way that is not open to manipulation, and should include a cross section of the participation.
- Making it community focused: Ask participants not what they personally want but what is appropriate in their role as a citizen.
- Making it interactive: avoid reducing questions to a simplistic response. Allow consideration of the big picture so people can readily become engaged.
- Making it effective: Although decision making can strive for consensus, complete agreement may not be the outcome. Be clear
  on how the decisions will be made so participants understand the impact of their involvement. Allow enough time for
  participants to become familiar with the project issues.
- Making it Matter: it is important that a strong likelihood that any recommendations that emerge from the consultative process will be accepted. If they are not, it is important that a public explanation is provided.

#### Ways to Consult

Different community stakeholder groups need different consultation methods at different stages of the project. Some of the processes that may be used are listed below.

Consultation Method	Inform	Consult	Involve	Collaborate
Tools	Fact Sheet / flyers Website Project Open days Briefings 24 hrs. contact points Media Direct personal visits Project inductions	Public submissions Focus groups Public meetings Surveys	Community liaison groups Workshops Submissions Community projects / sponsorship Local suppliers preference policy	Advisory groups Decision making Consensus building

Appendix 1 identities how these methods will be employed specifically to this project.

#### Letter Box Drops and Public Notices

Letter box drops or public notices will include at least the following:

- Why the works are required;
- When they will occur;
- What mitigation measures are in place to minimise any community or environmental impacts;
- Who will be doing the work and a contact phone number for further information; and
- Emergency Contact number / community complaints line.

#### **Communication Protocols**

The protocols for establishing and continuing community consultation for this project include:

- Communicating clearly;
- Including 3 or 4 main messages, and repeat them in different ways;
- Ensuring information is structured around the same messages i.e. Consistency;
- Ensuring project staff are clear about main messages, so stakeholders receive consistent messages;
- Providing information promptly;
- Establishing timelines and lines of communication: for this project a 2 day response time to deal with community concerns has been determined;
- Making the information accessible to all interested parties; and
- Being open to changes that may result from listening and incorporating innovations or concerns from the community into the project activities and methodologies.

# Identification of Stakeholders for this Project

#### General

Key stakeholders are generally identified as people who are adversely or positively impacted by our operations, those who have an interest in / influence on what we do.

Our project sites are required to identify their key stakeholders and consider their expectations and concerns during design (where achievable) and operational activities.

These projects key stakeholders are many and varied and may include:

- MPD's Employees Client and end users, subcontractors, and suppliers;
- Local and Indigenous communities;
- Customers;
- Surrounding property occupiers or owners;
- Community organisations that represent local and indigenous communities near our projects, particularly in regional NSW;
- Unions who are concerned about upholding workers' rights and interests; and
- Governments local & state;
- The media; and
- Industry associations.

Within these groups, there are stakeholders that may be interested in specific issues or affected by a range of issues.

#### **Community Consultation Planning**

Appendix 1 summarises the Community and Stakeholders Mapping Guide and overall consultation strategy planned for this project.

#### Stakeholders Identified for this Project & Consultation Strategies

For this project, business, residential and other stakeholders that may be specifically impacted by project works and the corresponding consultation strategy have been listed in the table below:

Stakeholders and Consultation Strategies					
Precinct	Impacts	Consultation Strategy			
Businesses	During Construction: extra traffic (concrete trucks)	A construction update advising of progress of current works and advice of commencement of soft ground works will be issue in advance of works commencing Personal consultation – a visit will be made to update progress on works and inform businesses of upcoming works Community Liaison Group (CLG) –			
		monthly meetings Ongoing communication with the Client, Property managers and business tenants via regular email flyers and project updates. The agreed complaint handling procedures will be implemented			

Stakeholders and Consultation Strate	egies	
Precinct	Impacts	Consultation Strategy
Residents	During Construction: Noise, Traffic, Dust	Prior to works starting, notification and consultation will be undertaken with the identified key sensitive receivers.  Personal consultation will be undertaken with identified sensitive receivers to make them aware of works, and the potential issues such as concrete trucks utilising site on a 10 hour basis Monday to Friday.  Personal consultation will be undertaken with the residents potentially impacted by regenerated noise and vibration  The agreed complaint handling procedures will be implemented
Employees & Subcontractors	WHS concerns  Career progression & learning opportunities  For those who live in regional communities where our projects are based – interactions out of work hours, business creation during the life of the project, supporting social infrastructure	Both the Head Office at Atarmon and project sites, employees and contractors are expected to participate in company improvements, via: Safety committees Performance appraisals Direct communications between employees & management Newsletters & alerts Intranet Monthly reporting & corporate reports IT helpdesk
Local & Indigenous Communities	Disengagement of local & indigenous communities with the project  Non – fulfilment of GC21 Contract obligations contained in Aboriginal Participation Plans  Miss-alignment of MPD's policies and the NSW Government's commitment to creating outcomes (training, employment, enterprise development) for Aboriginal people, as referred to in the Making It Our Business Strategy and procurement in construction policy.  Potential to affirm and respect indigenous and other heritage & cultural values	Development of Aboriginal Participation Plans to involve the indigenous community Community consultation groups Newsletters and other targeted communications Monthly reporting & corporate reports Community perception surveys
Suppliers	Suppliers and subcontractors not aware of MPDs expectations Impacts of MPD's payment terms and conditions on suppliers and subcontractors	Technology exchanges Identification of risks associated with their activities and implementation of controls Seek to utilise local suppliers and support these suppliers

Stakeholders and Consultation Strategies				
Precinct	Impacts	Consultation Strategy		
Community Organisations	Assurance that potential impacts (social, environmental, safety etc.) have been considered during MPD's projects and mitigated  MPD's community interactions and support are mutually beneficial and sustainable	Community consultation and engagement groups Support local sporting and other groups Corporate programs		
Unions	Freedom of our employees to choose to join labour unions	Communicate with unions on specific issues, MPD's CBA etc.		
Regulators	Government has mechanisms of regulation that cover a range of aspects within MPD including industrial, safety, environment	MPD's activities required to work within legislative frameworks and local and state levels Meetings with Council, BCA consultant with respect to planning and design issues Onsite meetings with Local Council, DECC, WorkCover, ABCC to ensure MPD works complying with legislation, minimising impacts to stakeholders, minimising industrial relations conflicts etc.		

#### Indigenous Stakeholders

MPD recognises and respects the importance of Indigenous peoples' culture, heritage and traditional rights and supports the identification, recording, management and protection of indigenous cultural heritage sites.

Indigenous cultural heritage is broadly defined to include matters that are significant to either Indigenous peoples or under legislation, such as dreaming, ceremonial, sacred and burial sites; archaeological sites where evidence of the past occupation and use by Indigenous peoples can be found; more contemporary historic sites; and traditional knowledge.

We recognise that Indigenous peoples have a vital role to play in identifying and properly managing cultural heritage, especially where it could be affected by our activities.

Where identified by the planning process, projects will undertake early consultations and assessments with Indigenous peoples to ascertain whether our proposed activities are likely to impact cultural heritage values and, in conjunction with Indigenous peoples and relevant authorities, determine how best to plan and undertake those activities to avoid or minimise such impacts.

MPD also actively seeks to utilise traditional knowledge in the development of site-based practices such as environmental management plans (see Appendix M).

#### **Aboriginal Participation Plan**

Aboriginal Participation Plans will be developed for a project in accordance with the Contract requirements or where there is a significant potential to benefit the local community in line with the NSW Government's policies (see Appendix M of the CEMP).

# Responsibility for Implementing the Plan

The Project Manager is responsible for developing and implementing the Community Consultation and Engagement Plan for this project. Where required, specialist consultants will be engaged.

# Stakeholder Grievances and Concerns

Project sites are required to maintain a register of concerns, complaints and relevant external communications.

Concerns and complaints are to be investigated as incidents, using MPD's standard investigation processes (Form 01.1), and outcomes and actions are reported back to relevant stakeholders.

# Is the Plan Effective?

Monitoring public opinion and complaints will identify how successful the project Community Consultation and Engagement Plan is:

- If issues can be resolved by consultation and collaboration, then the program is successful.
- If issues are escalating and resolution is improbable, the program is to working.

A regular review process during the project is also a central requirement of stakeholder identification, to ensure that all appropriate groups and individuals are effectively identified and suitably engaged.

# Resources

http://www.vlgaconsultation.org.au/

http://www.communitysolutions.com.au/index.html

Landcom Booklet Stakeholder Consultation Workbook (available on internet)

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

#### **APPENDIX E**

**Environmental and Sustainability Policies** 



A.C.N. 001 005 527 A.B.N.52 001 005 527

Civil Engineering Construction
Bulk Tipper Haulage
Waste Transport & Disposal
Earthmoving Plant Hire
& Contracting

# ENVIRONMENTAL MANAGEMENT PLAN

#### STAGE 3 SYDNEY BUSINESS PARK – BULK AND CIVIL

CLIENT: SYDNEY BUSINESS PARK CONTRACT NO: TBC

ENVIRONMENTAL MANAGEMENT PLAN NO: EMP SBPS3-C01

Project No: SBPS3-C01

CONTROLLED DOCUMENT NO.: 1 ISSUED TO: MICHAEL GRAY

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01	For Construction	DS	MS	SJ	07-10-20
Revision	Revision Description	Author	Reviewed by	Approved by	Date



### ENVIRONMENTAL MANAGEMENT PLAN

Approved By:

Project Manager Reference: EMP SBPS3-C01

**Date:** 2<sup>nd</sup> February 2021

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#### 1. Environmental Management Policy

Mulgoa Quarries is committed to reducing the impact of its operations on the environment.

We acknowledge that as a service organization, we can minimise the negative impact on the environment in many small ways as well as be a role model for responsible and sustainable environmental behaviour of our staff and suppliers.

The Key Principles and Actions underpinning our Environmental Management Policy are:

- Take environmental issues seriously at a senior management level
- Develop and support small-scale environmental improvement plans at sites wherever possible
- Consulting with employees and suppliers to ensure that environmental impacts on sites are understood and addressed effectively
- We maintain and continuously improve an EMS that complies with applicable EPA Act 1997, WHS regulations 2017, ISO 41001:2015, standards, codes of practice and requirements.

Our environmental objectives are to:

- Minimise environmental impact to land, water, air, flora and fauna
- Prevent pollution, preserve natural resources and conserve all heritages

To achieve these objectives, we shall act to:

- Ensure high levels of management and staff involvement in achieving stated objectives
- Continuously engage all stakeholders in meaningful consultation and communication
- Use suppliers, wherever possible, who have similar environmental objectives as ourselves and give preference to environmentally-friendly products and equipment
- Always weigh the environmental benefits of a product equally with its price and safety benefits
- Measure our performance and use this information for the continual improvement of our services and EMS.

Mulgoa Quarries' Environmental Management Policy is applicable to our Directors and employees. It expresses our ongoing commitment to understand, abide by and regularly review these Key Principles and Actions.

Robert Wearn Adrian Wearn

Director Director
Mulgoa Quarries Mulgoa Quarries



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#### 2 Background

#### 2.1. EMP Objective

Mulgoa Quarries Environmental Management System (EMS) is integrated within our Safety Management System. The safety management system translates our Environment, Health and Safety Policy into processes so that our environmental responsibilities and performance can be monitored, reported and improved.

The management plan is designed to ensure compliance with all Commonwealth, State and Local Council requirements pertaining to works undertaken by Mulgoa Quarries in relation to Sydney Business Park – Stage 3 Bulk Earthworks and Civil Works.

#### 2.2. Approach

This implementation plan will ensure a consistent application of an Environmental Due Diligence System within Mulgoa Quarries Pty Ltd and will ensure that management and staff will:

- Reduce the level of environmental risks.
- Establish improved incident management procedures.
- Maintain Compliance with legislative and licensing requirements.
- Protect and improve the environment.
- Satisfy customer demands.

The plan will address the following elements.

- Management Commitment
- Staff Participation and Awareness / Education
- Risk Identification and Management
- Continuous Improvement.

By addressing each of the above, the basic methodology of the Due Diligence Program can be effectively applied.

The Plan is structured so that strategies for each element are identified along with action plans, target achievement dates and responsibilities. Key Performance Indicators are also identified where possible.



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#### 2.3. Project Description

The scope of work undertaken by Mulgoa Quarries shall include the following activities:

The Bulk Earthworks and Civil works with regard to SBP - Stage 3 generally consists of the following:

- Site Establishment
- Bulk Earthworks
- Drainage Works
- Minor Concrete Works
- Flexible Pavement & Asphalt Pavement Works
- Miscellaneous Ancillary Works and Landscaping

Works are to be undertaken in accordance with the following: Technical Specification

- Douglas Partners Specification and Supervision
- As per Drawings No.
- o CC20-0127-03-001 to 402

	PLAN INDEX	
No.	PLAN	REV
PREL	IMINARIES	•
000	COVER SHEET	(B)
001	GENERAL LAYOUT PLAN & LEGEND	A
002	GENERAL NOTES	(B)
003	SITE REGRADING PLAN	A
004	SITE REGRADING SECTIONS SHEET 01 OF 06	A
005	SITE REGRADING SECTIONS SHEET 02 OF 06	A
006	SITE REGRADING SECTIONS SHEET 03 OF 06	A
007	SITE REGRADING SECTIONS SHEET 04 OF 06	Α
800	SITE REGRADING SECTIONS SHEET 05 OF 06	A
009	SITE REGRADING SECTIONS SHEET 06 OF 06	A
SEDI	MENT & EROSION CONTROL	•
100	SEDIMENT & EROSION CONTROL PLAN	(B)
101	SEDIMENT & EROSION CONTROL NOTES & DETAILS	A
ENGI	NEERING & ROADWORKS	
200	ENGINEERING PLAN SHEET 01 OF 05	Α
201	ENGINEERING PLAN SHEET 02 OF 05	A
202	ENGINEERING PLAN SHEET 03 OF 05	A
203	ENGINEERING PLAN SHEET 04 OF 05	Α
204	ENGINEERING PLAN SHEET 05 OF 05	Α
210	SERVICES COORDINATION PLAN	Α
220	TEMPORARY SWALE No.01 PLAN & SECTIONS	Α
300	TYPICAL ROAD CROSS SECTIONS & SETOUT TABLES	A
301	ROAD LONG SECTIONS SHEET 01 OF 02	Α
302	ROAD LONG SECTIONS SHEET 02 OF 02	A
JLTII	MATE BASIN GRADING	
100	ULTIMATE BASIN LAYOUT PLAN	A
401	ULTIMATE BASIN SECTIONS SHEET 01 OF 02	А
402	ULTIMATE BASIN SECTIONS SHEET 02 OF 02	A



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#### 3 Environmental Management

#### 3.1. Roles And Responsibilities

Mulgoa Quarries project staffs are required to:

- lead by example;
- encourage and support workers to work safely and with care for the environment
- set priorities that reinforce safe and environmentally aware activities; and display ownership of areas under their control and assist project team members in overall EH&S management

See SSMP – SPBS301 – 01 for more details on company's roles and responsibilities

#### 3.2. Risk Assessment

Mulgoa Quarries environmental risk assessments and safe work method statement shall be used as the tool to identify risks to the environment associated with the scope of the work being undertaken by Mulgoa Quarries or its subcontractors.

Please refer to appendix A and B for Mulgoa Quarries Environmental Risk Assessment and SWMS (CSMP-SWMS-All-07.112 Environment) for more details.

#### 3.3. Reporting

When deemed necessary, the supervisor will inspect (and document) the site and, providing particular attention to the following matters:

- Daily visual inspection of sediment and erosion controls.
- Ensure that all controls operate effectively and initiate repair as required.
- Remove spilled soil (or other materials).
- Construct additional erosion and/or sediment control works as might become necessary to ensure the desired protection is given.



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 Maintain erosion and sediment control measures in a functioning condition until all earthwork activities are completed and the site is rehabilitated.

The information will be recorded in Mulgoa Quarries health, safety and environmental registry (See Appendix D)

#### 3.4. Training and Induction

Environmental awareness education and training in site requirements will be included in the site induction.

Subcontractor training and induction will follow that of MQ staff.

#### 3.5. Emergency Services

Table below list the key personnel and emergency services responsible during an environmental emergency. The table will also be displayed on the work site

The order of Which Notification is to be made is as follows:

- "000" if there is an immediate threat to human health or property

Then (or if no immediate threat):

- The Appropriate Regulatory Authority (usually EPA or Council)
- The EPA (if it is not the ARA)
- The local Public Health Unit
- WorkCover
- The local authority (Council if it is not the ARA)
- Fire and Rescue NSW.



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# EMERGENCY CONTACT DETAILS EMERGENCY 000

#### Sydney Business Park – Marsden Park

FIRE BRIGA	<u>IDES.</u>		<u>Police</u>
Windsor	45 773 182	Blacktown	9671 9199
Blacktown	9822 0166	Riverstone	9838 2799
Mount Druitt	9625 4405	Mount Druitt	9675 0699
Fairfield	9726 1139		
Madaa Oaasi	- Courtests		- FDA
Mulgoa Quarrie	s Contacts	Cude ou Office	EPA
MQ Office	4722.0000	Sydney Office	9995 5000
Rhys Thomas	4723 9900	Pollution Line	131 555
Senior Project Manager		Sydney Bus	iness Park Contacts
Max Sarkis	0414 694 976	Infrastructure Man	nager
		Michael Gray	0425 343 672
Project Manager			
Phira Na	0418 176 075	Development Direc	ctor
		Owen Walsh	0413 442 096
Site Engineer			
Peter Nguyen	0401 753 930	Poisons Info Line	
		National Line	13 11 26
Supervisors			
Steve Eato	0447 231 774	Workcover	
Dean Mcmonagle	0412 292 845	Sydney Office	9841 8550
		After Hours	9214 9220
Operations Manager			
Chris Miler	0407 457 698		
Transport Manager			
Transport Manager Jason Yates	0448 491 546		
Jasun fales	0446 491 546		
Workshop Manager			
Warren Leachy	0408 363 833		
Safaty Coordinator			
Safety Coordinator	0419 445 042		
Shane Wilson	0418 445 043		



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#### **4 Stormwater Erosion and Sediment Control**

#### 4.1. Objective

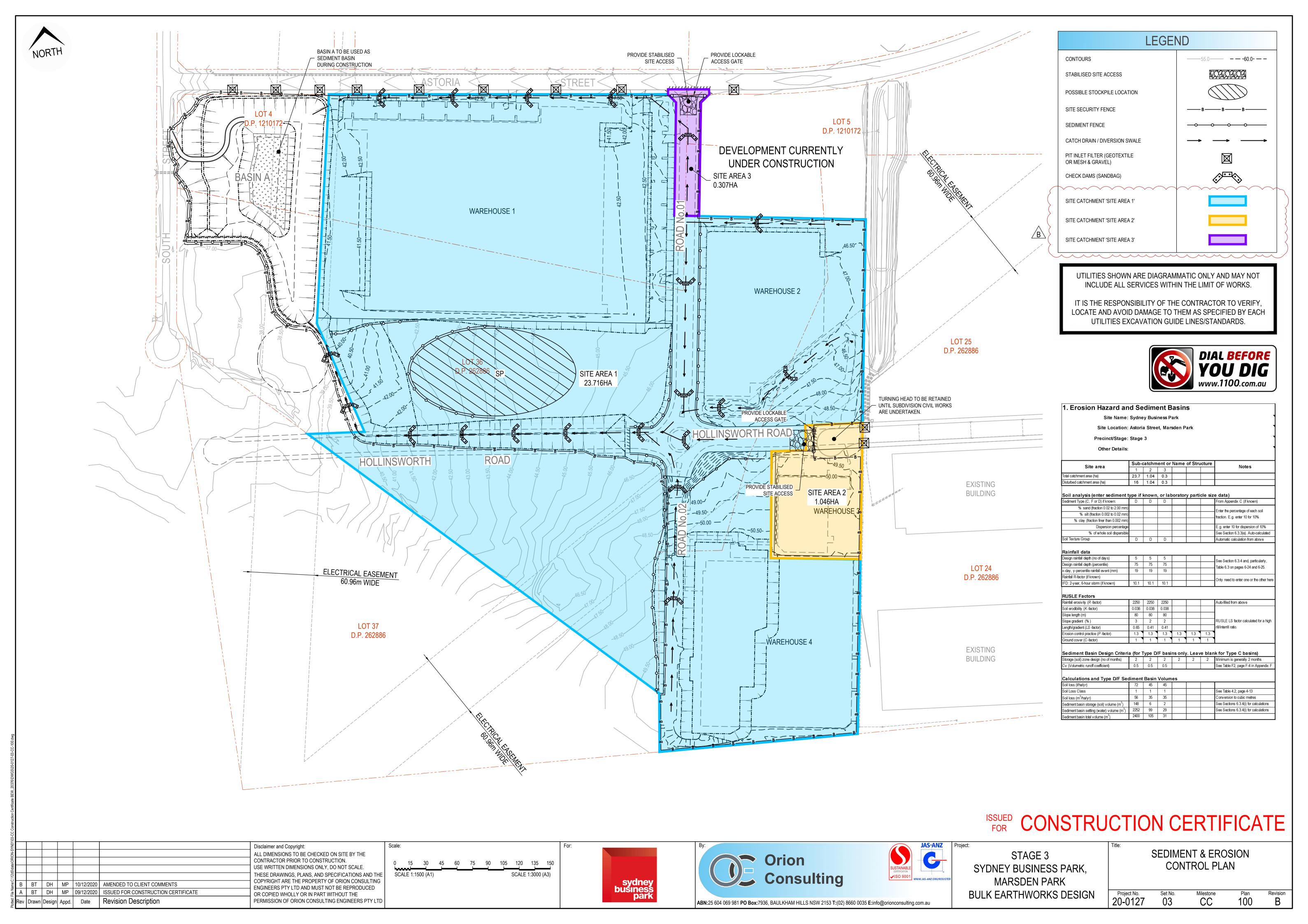
To plan and carry out the work to avoid erosion, contamination and sedimentation build up.

To control the quality of surface water leaving the site, such that no unacceptable impact occurs to adjoining waterways, wetlands or the local stormwater system.

#### **4.2. Control Measures**

As per Drawings No.:

o CC20-0127-03-100 & CC20-0127-03-101



## **GENERAL NOTES:**

- I. ALL EROSION AND SEDIMENT CONTROL MEASURES. INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL. SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE "ENVIRONMENT PROTECTION AUTHORITY".AND "DEPT OF LAND AND WATER CONSERVATION". MEASURES OUTLINED IN THE SEDIMENT & EROSION CONTROL PLAN MUST BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING AND AFTER THE CONSTRUCTION WORKS.
- 2. TOPSOIL FROM ALL AREAS TO BE DISTURBED SHALL BE STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IN THOSE AREAS.
- 3. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
- 4. ALL TAIL-OUT DRAINS SHALL BE GRASSED AND TRAPEZOIDAL IN SECTION. STRAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVICE WHERE REQUIRED.
- . VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING DEVELOPMENT CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS. AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED OFF.
- 6. DISTURBANCE OF VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS AND DRAINAGE LINES. NO LOT GRADING SHALL BE CARRIED OUT IN UNDISTURBED AREAS WITHOUT CONSULTATION WITH COUNCIL'S ENGINEER.
- ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN 14 WORKING DAYS FROM THE CONCLUSION OF LAND SHAPING.
- MINIMISE DUST BY WATERING WHEN REQUIRED

## STOCKPILE NOTES:

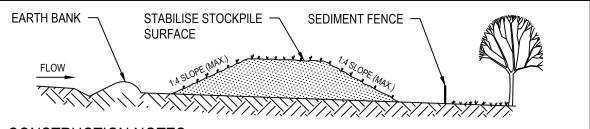
- 9. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
- 10. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 14 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH A MULCH OR WITH TEMPORARY
- 11. FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATE.
- 12. ALL STOCKPILES TO BE (MAX) 2m HIGH AND PROTECTED WITH SILT FENCE.

## **SPECIAL NOTES:**

- 13. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE.
- 14. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE GUIDELINES SET OUT IN "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION " -4TH EDITION AND THE ACCOMPANYING ROAD AND DRAINAGE PLANS.
- 15. CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT.
- MANAGEMENT DEVICES SHALL BE MAINTAINED ON A REGULAR BASIS. WHERE CLEANING IS REQUIRED, THE SEDIMENT SHALL BE REMOVED TO A POINT NOMINATED BY THE ENGINEER.
- 17. PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS, AND AFTER THE ROAD CENTRELINES HAVE BEEN PEGGED AND/OR PERMANENTLY MARKED, THE SITE MUST BE INSPECTED BY COUNCIL'S REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE TO IDENTIFY AND APPROPRIATELY
- a) THE TREES TO BE RETAINED. b) ALL TREES TO BE LEFT UNDISTURBED AND TO BE CORDONED OFF.
- 18. NO TREES SHALL BE REMOVED WITHOUT COUNCIL'S CLEARANCE.
- 19. MANAGEMENT DEVICES TO REMAIN UNTIL THE END OF THE MAINTENANCE PERIOD.

# SEDIMENTATION CONTROL DEVICES:

- 20. ALL STRAW BALES SHALL BE BOUND WITH WIRE. STRAW BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALE SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 450mm INTO THE GROUND AND LOCATED ON THE BALE CENTRE LINE.
- 21. SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2m (3m MAX) CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.

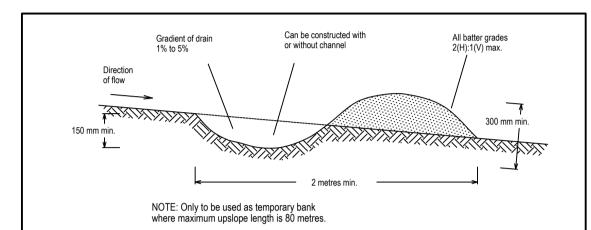


**CONSTRUCTION NOTES:** 

- 1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION,
- CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
- CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS  $3.\ \ \$  Where there is sufficient area. Topsoil stockpiles shall be less than 2 metres in Height
- 4. ALL STOCKPILES ARE TO BE LOCATED AND PLACED IN ACCORDANCE WITH THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN.
- 5. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) NO STABILISATION IS REQUIRED. REVIEW THE ADEQUACY OF SEDIMENT CONTROLS IF RAINFALL IS PREDICTED.
- 6. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) THE FOLLOWING ADDITIONAL CONTROLS ARE
- -MAXIMUM BATTER SLOPE REDUCED TO 1:4
- -CONSTRUCT A CONTOUR DRAIN ON THE LOW SIDE OF THE STOCKPILE, AND DISCHARGING THROUGH A STRAW BALE OR 200mm HIGH GRAVEL DAM
- -ESTABLISH GRASS COVER TO SURFACE OF STOCKPILE WITHIN 14 DAYS, USING HYDROMULCH WITH A 75:25 MIX OF SEASONAL AND PERMANENT GRASS SEEDS, AND A STRAW MULCH THICKNESS OF NO
- CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE.

**STOCKPILES** 

SD 4-1



Construction Notes

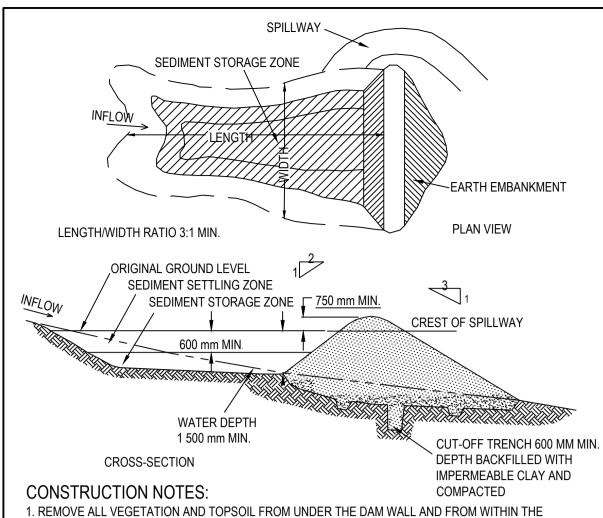
- 1. Build with gradients between 1 percent and 5 percent
- 2. Avoid removing trees and shrubs if possible work around them. 3. Ensure the structures are free of projections or other irregularities that could impede water flow.
- 4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.

EARTH BANK (LOW FLOW)

5. Ensure the banks are properly compacted to prevent failure.

6. Complete permanent or temporary stabilisation within 10 days of construction.

SD 5-5



2. CONSTRUCT A CUT-OFF TRENCH 500 MM DEEP AND 1,200 MM WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST. 3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.

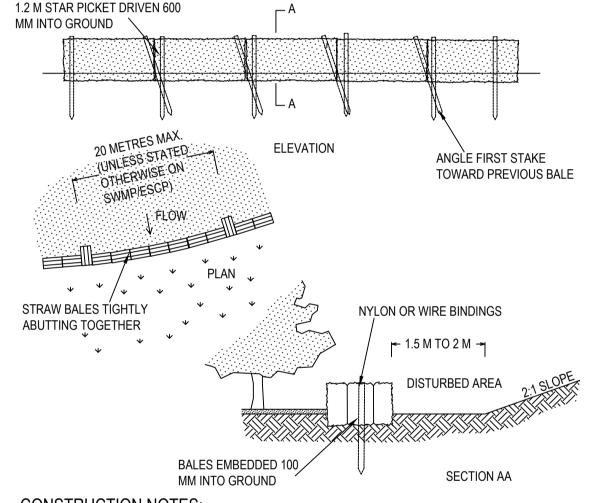
4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR 5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100 MM TO HELP BOND

COMPACTED FILL TO THE EXISTING SUBSTRATE 6. SPREAD THE FILL IN 100 MM TO 150 MM LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT

FOLLOWING THE SWMP. 7. CONSTRUCT THE EMERGENCY SPILLWAY. 8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP

EARTH BASIN - WET

(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY)



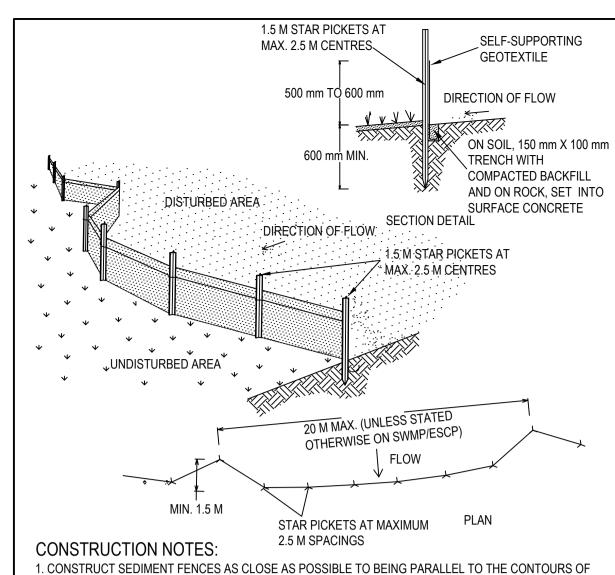
**CONSTRUCTION NOTES:** 

STRAW BALE FILTER

1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE

- CONTOURS OF THE SITE. 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS
- BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND. 3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
- 4. EMBED EACH BALE IN THE GROUND 75 mm TO 100 mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE.DRIVE THEM 600 mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
- 5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
- 6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED -THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

SD 6-7



THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE

2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE

3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS. 4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE

MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE

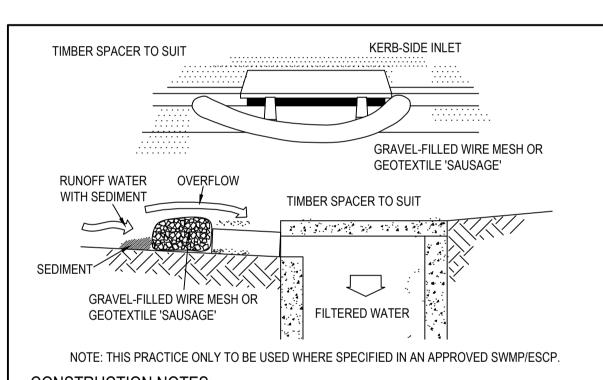
OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY. 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAF

6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE

## SEDIMENT FENCE

SD 6-8

SD 6-11



CONSTRUCTION NOTES:

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS. 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.

3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.

4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS. 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.

6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH AND GRAVEL INLET FILTER

Construction Notes Fabricate a sediment barrier made from geotextile or straw bales. 2. Follow Standard Drawing 6-8 for installation procedures for geofabric. Reduce the picket 3. In waterways, artificial sag points can be created with sandbags or earth banks as shown

4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters GEOTEXTILE INLET FILTER

For drop inlets at non-sag points

spacing to 1 metre centres

sandbags, earth bank or excavation used to create artificial sag point

GUTTER ROADWAY CONSTRUCTION NOTES: 1. INSTALL A 400mm MINIMUM WIDE ROLL OF TURF ON THE FOOTPATH NEXT TO THE KERB AND AT THE SAME LEVEL AS THE TOP OF THE KERB. 2. LAY 1.4 METRE LONG TURF STRIPS NORMAL TO THE KERB EVERY 10m. 3. REHABILITATE DISTURBED SOIL BEHIND THE TURF STRIP FOLLOWING THE ESCP/SWMP.

Woven geotextil

Runoff water

KERBSIDE TURF STRIP

SD 6-13

(14 gauge x 150 mm

with safety cap

penings) where geotextile

Woven geotextile

SD 6-12

MIN. WIDTH 3 METRES **CONSTRUCTION SITE** - MIN. LENGTH 15 METRES RUNOFF DIRECTED TO SEDIMENT TRAP/FENCE DGB 20 ROADBASE OR 30 MM AGGREGATE **EXISTING ROADWAY** GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING

OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N

**CONSTRUCTION NOTES:** 1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.

2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE. 3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. 4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST

5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE

STABILISED SITE ACCESS

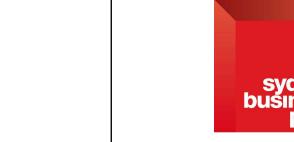
SD 6-14

# FOR CONSTRUCTION CERTIFICATE

A | BT | DH | MP | 09/12/2020 | ISSUED FOR CONSTRUCTION CERTIFICATE Revision Description ev Drawn Design Appd. Date

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STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **BULK EARTHWORKS DESIGN**  **SEDIMENT & EROSION CONTROL NOTES** & DETAILS

20-0127 03



#### ENVIRONMENTAL MANAGEMENT PLAN

Approved By:

Project Manager Reference: EMP SBPS3-C01

Date: 2<sup>nd</sup> February 2021

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#### **5 Site Maintenance**

Waste bins are to be provided for all construction refuse. They are to be emptied at least weekly and refuse is to be disposed in accordance with the site manager's recommendations.

The site manager shall inspect the site at least weekly and shall;

- Ensure that all drains are operating effectively and shall make any necessary repairs
- Ensure that any visible hazards and near misses are records and logged using Mulgoa Quarries Pty Ltd.'s forms.
- Remove any spilled material from area subject to runoff or concentrated flow;
- Inspect the sediment basins after each rainfall event and/or weekly.
   Ensure that all sediment is removed once the sediment storage zone is full.
- Maintain erosion and sediment control measures in a fully functioning condition at all times until the site is rehabilitated
- Ensure that all excess water is discharged at the designated location and is within the required Ph limits. All discharge days are to be documented. Refer to Remediation Action Plan Dated December 2014



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#### **6 Noise Management Plan**

#### 6.1. Objective

To minimise the level of vibration and noise that is generated from construction activities on site and its impact on the surrounding businesses and workers. (See Appendix D for Mulgoa Quarries Noise Management and Associated Health Surveillance system)

#### 6.2. Construction period

Operating hours should not occur outside the hours approved by Blacktown City Council.

The intent is for all works to be conducted within normal operating hours

- (a) 7am to 6pm Mondays to Fridays (inclusive)
- (b) 8am to 1pm Saturdays,
- (c) Work on Sundays and Public Holidays is prohibited

#### 6.3. Site Actions

No work outside construction hours unless otherwise approved in writing by the Local Development Authority.

Personnel safety measures shall be implemented wherever noise exceeds 95dB

Ensure traffic access to and from the site will be via designated entry/exit points.



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#### 7 Monitoring and Reporting

#### 7.1. Environmental Monitoring

The WHS/Site supervisor on site shall observe and record general observations and activities associated with the environment;

- During unusual or extreme weather conditions
- When work is undertaken in close proximity to stormwater drains or any natural water courses
- When the likelihood of air quality may be affected
- Should noise from plant or other activities impose a risk, particularly at night,
- When there is a risk of fire, or
- Where the Aspects and Impacts Register identifies a risk that requires monitoring
- Complete conservation reports weekly.
- Conform to Empire Asbestos control plan.

#### 7.2. Audits

An audit of the environmental system shall be incorporated into the site safety audits undertaken by the WHS/Environ Representative. Should an environmental incident occur that has significant impact on the environment, including long term damages, a separate audit will be performed by an independent environmental auditor and provided to the client for review and appropriate actions. Records of audits and monitoring shall be kept for reference purposes.

#### 7.3. Non-conformance

Corrective actions associated with the environmental management system will be undertaken within 7 days of receipt of the Corrective Action Request.



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#### 8 Spill Response Plan

#### 8.1. Objective

To ensure that hazardous substances are not discharged into surface or groundwater and to put in place plans for the management of spills, or leakage of hazardous substances should they occur on site.

Mulgoa spill response plan is integrated into our CSMP (see appendix F – hazardous substance CSMP-MSP-All-07.006)

#### 8.2. Hazard Assessment

The hazardous substances that may be found on site during construction includes those usually associated with operation and maintenance of vehicle and include diesel fuel, gasoline, hydraulic fluid, brake fluid, antifreeze, and lubricants.

#### 8.3. Site Action

Should hazardous substances be spilt, contingency plans shall be in place to have the substances confined within the spilt area on site until the incident can be effectively managed. The following points are guidelines on the procedures of action if a hazardous spill does occur.

- 1. Identify the source of the problem.
- 2. Stop the source of the spill immediately if it is safe to do so.
- 3. Notify the Site Supervisor.
- 4. Contain the spill and control its flow, using spills kit or sandbags. (Refer to the relevant SDS.) Stop the spill from entering any storm water drains by blocking the drains inlets.
- 5. Remove spilt material and place in sealed container for disposal (if possible) or clean up the spill promptly by following the relevant SDS.
- 6. Site Supervisor or Project Manager/Environmental Officer to complete a hazard report (WHS-Frm-All-06.001a HRF).
- 7. If a spill occurs that threatens or harms the environment, contact the EPA or the local Council.



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- 8. For large-scale hazardous spills call the Fire Brigade immediately on 000.
- 9. For transport spills, follow the Truck driver incident pollution procedure.
- 10. For small scale spills, follow the SDS for the spilled substance.
- 11. If you have any doubts call the Fire Brigade.



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#### 9 Air and Dust Management

#### 9.1. Objective

Mulgoa Quarries Air and Dust Management are integrated with our Safety Management System. The safety management system translates our Environment, Health and Safety Policy into processes so that our air and dust containment responsibilities and performance can be monitored, reported and improved. (See Appendix H for air and dust management safety documentation)

#### 9.2. Key Management Issues

The generation of dust from the site can be a major nuisance to local activities as well as creating unacceptable working conditions. The key measures to addressing this issue are as follows:

- Emissions of dust due to traffic movement. Limit areas of disturbance to the minimum necessary;
- Emissions of dust due to wind erosion of stockpile material and exposed soil. Content use of water-cart to wet stockpile and exposed soil to minimise wind erosion.
- Ensure water carts are available to dampen approaches, access roads and other susceptible surfaces;

#### 9.3. Site Actions

Mulgoa Quarries shall ensure that the following site Actions are adhered to:

- Mulgoa Quarries will ensure that dust pollutants in and around the construction site is maintained at acceptable levels throughout the construction period.
- Mulgoa Quarries shall comply with all emission limits in the State Environment Protection Policy (Air Quality).
- All vehicles belonging to MQ or their subcontractors shall be maintained and repaired to original manufacturer's specifications.



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#### 10 Legal and Regulatory Matters

Legal obligations in relation to the environment shall include obligations relating to the following Acts and Regulations:

- Protection of the environment operations act 1997
- Contaminated Land Management Act 1997

#### 11 Emergency Preparedness

MQ shall ensure all employees and subcontractors are aware of the prime contractors emergency preparedness plan and procedures on site.

The emergency evacuation process, the emergency fire fighting system and the emergency plans for spillage containment shall be included in all site inductions.



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#### 12 General Site Procedures

#### a. Noise

- i. Where necessary, equipment will be fitted with appropriate silencers
- ii. No Work will be conducted outside Council working Hours 7:00am to 6:00pm Monday to Friday, 8:00am to 1:00pm Saturday, No work on Public Holidays.

#### b. Emissions

 Equipment to be checked to ensure functioning correctly & not creating excessive exhaust

#### c. Dust

- i. All stockpiles that can generate dust must be dampened.
- ii. All trucks transporting soil. Excavation material to & from site must be covered & Tailgates secured.

#### d. Construction works

- i. Trucks to be cleaned down prior entering urban roads to prevent tracking dirt onto them.
- ii. Sediment traps are to be placed at stormwater egress points
- iii. Erosion & sediment controls are to be taken, around stockpiles on down hillside, at edge of works area on down hillside.
- iv. Erosion & sediment controls to be inspected after every storm or rainfall, and are to be maintained on a regular basis.

#### e. Visual Impact

i. Site is not directly affecting local residences, however impact of site must still be minimised.

#### f. Vegetation

- i. Areas of disturbance to be kept to a minimum.
- ii. Disturbed areas to be restabilised where possible.

#### g. Waste Disposal

- i. Collection Facilities or an allotted location for stockpile of industrial waste for removal from site to be nominated or supplied.
- **ii.** Industrial & domestic waste generated by the site is to be disposed of in accordance with EPA requirements.
- **iii.** All asbestos found during demolition will be disposed in the correct manner & is highlighted in the Safe Work Method Statements.

#### h. Site Clean-up

- i. All effected and adjoining areas to be cleaned down of dust & debris.
- ii. All wastes to be removed from site within 28 days of works being completed



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# 13 Appendix / References

APPENDIX NO.	DESCRIPTION
Appendix A - CSMP-Frm-All-07.115	Risk Assessment
Appendix B - CSMP-SWMS-All-07.112	Safe Work Method Statement
Appendix C - Handbook	Health, Safety and Environmental Record Handbook
Appendix D - CSMP-MSP-All-10.016	Noise Management and associated Health Surveillance
Appendix E - CSMP-MSP-All-07.006	Hazardous Substances
Appendix F - WHS-Frm-All-06.001a	Hazardous Report & Risk Control Form
Appendix G - WHS-Ckl-All-06.007	On-site Environmental Issues Checklist



#### APPENDIX A Risk Assessment

Issue date: 07/01/2019 **CSMP-JSA-AII-07.115** 

Review date: 07/01/2021

Authorised by: S Jameson

Name of Job: ENVIRONMENTAL PROTECTION				
Site: Sydney Business Park Stage 3 – Bulk And Civil	Prepared by: Max Sarkis	Date: 02/20/2021		
<b>Department: Operations</b>	Participants: MAX SARKIS, CHRIS MIL	ER, SHANE WILSON		
Responsible supervisor: Steve Eato				
Special PPE requirements: As Per Site Requirement				
List Associated Procedures/Work Procedures or Tempora	ary Work Procedures:			

Task No.	Describe the Task	Potential Risks	Precautions to be taken or Transferred to Hazard Report Form	Completed By: (Date)
1	PRE-START CHECKS/ OPERATIONS	Fluid Leaks from Plant & Equipment cause environmental damage.	<ul> <li>Look for signs of fluid leaks as a part of the prestart inspection.</li> <li>Report leaks immediately to workshop for repairs.</li> <li>Catch leaking fluid in a container.</li> </ul>	
		Dust from machines create air pollution	<ul> <li>Water cart to be used on demand to prevent dry dusty roads</li> <li>Works to cease if site is dusty and watercart not available.</li> <li>Speed of machines to be kept to speed limits to avoid excess dust</li> </ul>	
		Noise pollution	<ul> <li>Operations to be undertaken in accordance with Contract working hours.</li> <li>Damaged plant/equipment creating excess noise is not to be operated, and must be reported to workshop for repairs.</li> </ul>	
2	UNCONTROLLED POLLUTED SURFACE WATER.	Water high in sediment flow uncontrolled into neighboring property and/or adjacent natural water course	<ul> <li>A sump is to be maintained with sufficient capacity to contain most surface water that lands in Works Area.</li> <li>Sump must be suitably constructed to avoid leaking.</li> <li>Pumped water must pass first through a sediment pond before leaving site.</li> <li>Sediment ponds to be emptied to about half of capacity (by filling watercarts) in dry conditions to make room for stormwater.</li> <li>Refer Drawings No. X12046</li> </ul>	



Issue date: 07/01/2019	CSMP-SWMS-AII-07.112
Review date: 07/01/2021	Authorised by: Scott Jameson

**Purpose / Task:** To provide systems of work to ensure environmental protection.

**Scope:** All operators and operations at SPB Stage 3 – Civil & Bulk Earthworks

**References:** 

Training: Plant:

**PPE:** As per SWMS for item of plant/equipment.

#### **Responsibilities and Authorities:**

Position	Responsibilities	Authorities
Mulgoa	Responsible supervisor for this	Suspend operations not
Operations	activity.	conducted in line with this
Supervisor	Ensure that all operations are conducted in line with this SWMS.	procedure.
Operators	Operate equipment in line with this procedure.	Conduct work in accordance with this procedure. Do not undertake work considered not to be safe.

#### **Procedure**

**Plant Prestart Check:** The purpose of the check is to prevent environmental damage. The operator shall:

- Complete prestart form (WHS-Frm-All-10.003 or equivalent) daily prior to first use and during the day as required.
- Walk around the machine before mounting. Look for fluid leaks (especially around hydraulic hoses).
- Collect leaking fluid in containers.
- Check all fluid levels. Investigate and report falling levels.
- Tag out and report any damage to the plant to the supervisor and/or workshop.



#### APPENDIX B Environmental SWMS

CSMP-SWMS-AII-07.112
Authorised by: Scott Jameson

**Machine Operations**: The purpose is to minimise environmental damage

through dust and noise, including:

Dust from machines creating air pollution. The operator (and supervisors where appropriate) shall;

Request watercarts if roads become dry and/or dusty.

- Cease operations if site dusty and watercart not available.
- Reduce speed to limit generation of dust.

Machines generate excessive noise. The operator shall;

- Works to be undertaken inside Contract Hours.
- Damaged equipment is not to be operated and must be reported to workshop for repair.

**Surface Water:** The purpose is to minimise environmental damage

through polluted water, including:

Sediment laden water flowing uncontrolled into neighboring property and/or creek. The operator/supervisor shall;

- Maintain a sump with sufficient capacity to contain all surface water that lands in Works Area.
- Sump must be suitably constructed to avoid leaking.
- Water has been tested and approved for pump out without further treatment.
- All water is pumped at the allocated discharge point.



#### APPENDIX C HEALTH & SAFETY HANDBOOK

Issue date: 07/01/2019	
Review date: 07/01/2021	Authorised by: Scott Jameson

HEALT ENVIROR				ALERTNO.	MULGOA QUARRIES
Date: /	1	-34300	of incident:	1	K
Reported by:		Time:	Reported to	am/pm	
Site:		Incide	nt Location:		
HAZARD	NEAR MISS		ENVIRONMENT	HEALTH	OTHER
BRIEF DESCRIPTION:					
SUGGESTION FOR IN	MPROVEMEN	П:			
Has there been an in			YES NO		ITPOLEOPM
White copy to Superviso	using Ale	ert No. a	se a HAZARD REF It top of this form.	'URT & RISK CUN	TIRUL FURM
Pink copy to OHS Mana	ger For File	and Foll	ow Up		



# APPENDIX D Noise Management and associated Health Surveillance

Issue date: 07/01/2019	CSMP-MSP-AII-10.016
Review date:	Authorised by: Scott
07/01/2021	Jameson

**Purpose:** To ensure that personnel are not exposed to noise levels which exceed

an 8 hour noise level equivalent of 85 dB (A) or peak at more than 140 dB

(C), (as per the NSW WHS Regulation 2017). Outline the conduct of audiometric testing.

**Scope:** Applies to Mulgoa sites including Managers, Supervisors and Workers.

References: WHS Regulation 2011 Chapter 4, Part 4.1, Clause 56, 57, 58, 59 -

Noise Management.

NOHSC 1007, National Standard for Occupational Noise

AS/NZS 1269: Occupational Noise Management Part 0: Overview &

General Requirements

WorkCover NSW Code of Practice - Noise Management & Protection

of Hearing at Work

#### **Responsibilities and Authorities:**

Position	Responsibilities	Authorities
Mine Production Manager / Site Supervisor	- Comply with the noise management requirements listed in the WHS Regulation 2011 and this MSP.	- Provide and allocate resources.
Site Supervisor	In consultation with the Mine     Production Manager and site WHS     Employee Representative develop     and implement noise control plans.	- Provide and allocate resources.
Technical Specialist	Oversee the design and construction of new workplaces and plant to meet regulatory noise requirements.	- Ensure compliance to legislation

#### **Procedure:**

#### Noise hazard identification and noise surveys

Site Supervisor shall allocate the activity of Noise Hazard Identification, in all areas suspected of exceeding the noise exposure standard as per the WHS Regulation 2017. This shall be undertaken in consultative with the site WHS Representative.

Areas where it is considered that persons may be exposed to noise exceeding the standard set out by the WHS Regulation 2017, shall be assessed (through Noise Surveys), unless the exposure to noise can be reduced below the standard immediately.

The Site Supervisor shall in consultation with site WHS Representative determine the period between noise surveys.



# APPENDIX D Noise Management and associated Health Surveillance

Issue date: 07/01/2019	CSMP-MSP-AII-10.016
Review date: 07/01/2021	Authorised by: Scott Jameson

#### **Noise Control Plan**

If a survey reveals that any part of the workplace is likely to cause a person to be exposed to noise exceeding the standard set by the WHS Regulation 2011 (without the use of control measures i.e. hearing protection), The Site Supervisor in consultation with site WHS Workers Representative shall develop a documented 'Noise Control Plan', with all controls in accordance with the hierarchy of controls (i.e. engineering, administration and personal hearing protectors).

#### **Audiometric Testing Program**

The GM - Operations shall implement an audiometric testing program applicable to any employee likely to be regularly exposed to noise exposure levels in excess of the standard set by the WHS Regulation 2017.

The audiometric testing program, subject to paragraph one should include an initial reference test with periodic audiometric testing to follow. The initial audiogram should be taken as soon as the employee commences work, or before any exposure to workplace noise occurs. Further audiograms should be taken at 12 months and then periodically every two years.

All testing should be undertaken by appropriately trained and experienced persons, selected by senior management in consultation with employees and employee representatives, in accordance with the specifications of AS 1269 Occupational Noise Management Part 0: Overview & General Requirements.

Audiometric test records of Workers, where released to the PCBU, should be kept as confidential documents with Human Resources, during the Worker's period of employment and longer as necessary.

#### **Training**

The Site Supervisor shall provide its managers, supervisors and Workers who may be exposed to excessive noise at work above the standard set as per the WHS Regulation 2017, with training and education aimed at the prevention of noise induced hearing loss and tinnitus (as per the Noise Management & Protection of Hearing at Work Code of Practice 2004).

#### **New plant**

Engineers shall ensure new workplaces and installation sites for new plant in existing workplaces, are designed and constructed so as to ensure that exposure to noise is at or below the standard set by the WHS Regulation 2017.

#### Records

Noise surveys shall be posted on the WHS notice board and filed accordingly as per CSMP-Man-All-13 WHS Records Management



#### Appendix E Hazardous Substances

Issue date: 07/01/2019	CSMP-MSP-AII-07.006
Review date: 07/01/2021	Authorised by: S Jameson

**Purpose:** To detail the processes associated with the safe handling and storage

of hazardous substances.

**Scope:** This procedure applies to all Mulgoa sites, Managers, Supervisors,

WORKERs and Contractors who utilize hazardous substances.

References: Mine WH&S Act 2013, Mine WH&S Regulation 2014, WHS Act 2011,

Section 8, 1(d), WHS Regulation 2017, Chapter 7 Use of Hazardous

Chemicals

National Code of Practice for Control of Hazardous Substances

**NOHSC 2007** 

#### **Responsibilities and Authorities:**

Position	Responsibilities	Authorities
Mine Production Manager / GM - Operations	<ul> <li>Ensure that all hazardous substances are stored and handled is in accordance with NOHSC: 2007 and this MSP.</li> <li>To allocate the activity of hazardous substance risk assessments.</li> <li>To allocate the activity of hazardous substance training.</li> </ul>	- Provide and allocate resources.
Project Manager / Site Supervisor	- Maintain the sites hazardous substance register.	- Provide and allocate resources.

#### Procedure:

#### **Obtaining a Safety Data Sheet (SDS)**

The Site Supervisor or their delegate must obtain a SDS, on or before the first supply of the hazardous substance to their premises or, where this is not possible, as soon as practicable thereafter.

These SDS's shall be readily accessible to any worker, emergency services, authority personnel and any other person who is likely to be affected on the premises.

#### Register of hazardous substances

The Site Supervisor shall ensure that the sites hazardous substance register is readily accessible to any worker and any other person who is likely to be affected by the dangerous goods on the premises. Hazardous substances that are used at static location may have the risk assessment / SDS available at that site.

The hazardous substance register must include:

- a list of all hazardous substances used at the employer's place of work
- the relevant SDS for each of those hazardous substances
- relevant hazardous substance risk assessments (WHS-Frm-All-07.006)

**Note:** Risk Assessment data may be maintained in the hazardous substance register.



# Appendix E Hazardous Substances

Issue date: 07/01/2019	CSMP-MSP-AII-07.006
Review date: 07/01/2021	Authorised by: S Jameson

#### Hazardous substance risk assessments

The GM - Operations shall ensure that risk assessments relating to the use of hazardous substances are undertaken by the use of WHS-Frm-All-07.006. Such substances shall be stored in accordance with the SDS and risk assessment.

#### Retaining records

The GM - Operations shall ensure that the following records are kept for the periods specified:

- all risk assessment reports indicating a need for atmospheric monitoring or health surveillance, and records of the results of any atmospheric monitoring or health surveillance—for at least 30 years after the date of the last entry in them,
- a record of all induction or other training required to be provided to workers who
  are likely to be exposed to a hazardous substance at the site for at least 5
  years after the date of creation of the record,
- All risk assessment reports indicating that atmospheric monitoring or health surveillance is not required for at least 5 years after the date of the last entry in them.

#### **Container labelling**

All containers into which a hazardous substance is decanted for immediate use need not be labelled, so long as it is cleaned immediately after it has been emptied of the substance.

All containers into which a hazardous substance is decanted for use within the next 12 hours need only be labelled with the product name and the relevant risk phrases and safety phrases.

Where not used immediately or within the next 12 hours, the container into which the hazardous substance is transferred must be labelled to clearly identify the hazardous substance and provide basic health and safety information about the substance, including any relevant risk phrases and safety phrases.

#### **Training**

The GM - Operations must ensure that persons involved in the storage and handling of hazardous substances are inducted and trained. The induction and training program should incorporate the following:

- the labelling of containers of hazardous substances, the information that each part of the label provides and why the information is being provided;
- the availability of SDS for hazardous substances, how to access the SDS and the information that each part of the SDS provides;
- information about hazardous substances to which workers are or may be exposed in the course of their work;



## Appendix E Hazardous Substances

Issue date: 07/01/2019	CSMP-MSP-AII-07.006
Review date: 07/01/2021	Authorised by: S Jameson

- the assessment process and how the worker can contribute;
- the work practices and procedures to be followed in the use, handling, processing, storage, transportation, cleaning up and disposal of the hazardous substances;
- the measures used to control exposure to hazardous substances, including any information that the worker requires for the correct use and maintenance of control measures;
- the proper use and fitting of personal protective equipment;
- the processes to be followed in case of an emergency involving hazardous substances, including any special decontamination processes to be followed;

#### Health surveillance

The Mine Production Manager / GM - Operations must provide health surveillance for each worker who is exposed to a hazardous substance if there is a risk to the health of the worker as a result of that exposure, and:

- the hazardous substance is referred to in Clause 165 Chapter 6 Part 6.4 of the WHS Regulation 2017 (Appendix A), or
- the exposure to any other hazardous substance is such that:
  - an identifiable disease or other effect on health may be related to the exposure, and
  - there is a reasonable likelihood that the disease or other effect on health may occur under the particular conditions of work, and
  - There is available an effective technique for detecting indications of the disease or other effect on health.

#### **Disposal**

No item identified as a hazardous substance shall be disposed of via garbage bins or by any other general waste disposal processes.

Hazardous substances are to be placed in bunded areas and disposed of by a licensed disposal company.



Creosote

Pentachlorophenol (PCP)

#### Appendix E **Hazardous Substances**

Issue date: 07/01/2019 CSMP-MSP-AII-07.006

Review date: 07/01/2021

Authorised by: S Jameson

#### Appendix A (as per OHS Regulation 2001)

Type of health surveillance Hazardous substance

Occupational and medical history Acrylonitrile

Demographic data

Records of personal exposure

Demographic, medical and occupational history

Exposure record Arsenic (inorganic)

Physical examination with emphasis on the peripheral nervous system and skin

Urinary inorganic arsenic

Occupational and demographic data Asbestos

Medical interview Records of personal exposure

Occupational and medical history Demographic data

Benzene Exposure record

Baseline blood sample for haematological profile

Demographic, medical and occupational history

Exposure record

Physical examination with emphasis on the respiratory system Cadmium

Standard respiratory questionnaire to be completed Standard respiratory function tests including for example, FEV1, FVC and FEV1/FVC

Urinary cadmium and β2-microglobulin

Chromium (inorganic)

Demographic, occupational and medical history Physical examination with emphasis on the respiratory system and skin Weekly skin inspection of hands and forearms by a competent person

Demographic, occupational and medical history Health advice, including recognition of photosensitivity and skin changes

Physical examination with emphasis on the neurological system and skin, noting any abnormal lesions and evidence of skin sensitisation

Exposure record, including photosensitivity

Completion of a standardised respiratory questionnaire Standard respiratory function test, such as FEV1, FVC and FEV1/FVC Crystalline Silica

Chest X-ray, full size PA view

Occupational and medical history
Completion of a standardised respiratory questionnaire Isocvanates

Physical examination of the respiratory system and skin Standard respiratory function test, such as FEV1, FVC and FEV1/FVC

Medical and occupational history Lead (inorganic)

Physical examination

Mercury (inorganic)

Demographic, medical and occupational history Physical examination with emphasis on dermatological, gastrointestinal, neurological and renal systems

Urinary inorganic mercury

Urinary total MOCA MOCA (4,4-Methylenebis (2-chloroaniline))

Dipstick analysis of urine for haematuria

Urine cytology

Occupational and medical history

Physical examination Organophosphate pesticides Baseline estimation of red cell and plasma cholinesterase activity levels by the Ellman or equivalent

Estimation of red cell and plasma cholinesterase activity towards the end of the working day

Demographic, occupational and medical history

Physical examination with emphasis on the skin, noting any abnormal lesions or effects of irritancy Urinary total pentachlorophenol

Dipstick urinalysis for haematuria and proteinuria

Records of personal exposure

Exposure record, including photochemical skin burns Polycyclic aromatic hydrocarbons

Demographic, medical and occupational history Physical examination

Demographic, medical and occupational history Thallium

Physical examination Urinary thallium

Occupational and demographic data Vinyl Chloride

Record of personal exposure



White copy to WHS Manager, Yellow copy to Client

## Appendix F Hazardous Report & Risk Control Form

Issue date:	07/01/2019

WHS-Frm-All-06.001a

Review date: 07/01/2021

Authorised by: S Jameson

Section 1		_			_ 、 -	d by WHS M	- /			
				•	. (Use Health, Safety & Enviro. Alert No.):					
Site: Location Reported by: Reported				n:	<u> </u>			Det	<u> </u>	_
Reported by			кероп	eu u	J			Date	ə. <u></u>	-
Description of haza										-
Risks posed by haz										<del>-</del>
Current controls:										<del>-</del>
Interim Actions:										- -
Section 2 Risk Potential – Risk										-
R	lisk ranking ch	art					F	Probabil	ity	
	Consequence				Certair	n Likel	y P	ossible	Unlikely	Remote
Equipment / Operations			al injury	_	Α	В		C	D -	<u>E</u>
\$500,000 + Loss				1	1	2		4	7	11
Up to \$500,000	Major		injury	2	3	5		8	12	16
Up to \$100,000	Serious	Lost t		3	6	9		13	17	20
Up to \$10,000	Minor	Medic		4	10	14		18	21	23
Less than \$500	Nil effects	First A	Aid	5	15	19		22	24	25
LEGEND: 1 – 6 HIGH RISK. 7 – 15 MEDIUM RISK. 16 – 25 LOW RISK.										
INITIAL RISK PRIC	RITY		Prob	abil	ity	Consequences		ces	RISK	
Root Cause of the	risks:									
Section 3										
Possible Improved (	Controls:									
Risk Control Plan										
Preferred Control Substitution, Isolation, En					Respor	nsibility	Dat	е	Completed	<b>d</b> (sign off)
Safety Alert require	ed Yes	No	<b>)</b>							
Residual Risk Prio			Proba	ability		Consequences		es I	Risk	
As Low As Reasonably P	ractical									
Section 4										
						Signe	d off		Dat	:e
Originator notified of action taken										
Controls monitored for their completion,										
effectiveness and do not introduce any further risk										
All employees no	<b>tified</b> of action	ı taken	via too	olbo	X					
talks										
Records filed/dis	tributed									



Foreman:

# Appendix G On Site Environmental Issues Checklist

Issue date: 07/01/2019 **WHS-Cki-Ali-06.007** 

Review date: 07/01/2021 Authoris

Authorised by: S Jameson

Date:

Project:							
DESCRIPTION	Y	N	N/A	COMMENTS	INITIALS		
1. Is site kept clean?							
2. Are bins available for rubbish?							
3. Are site facilities clean?							
4. Are geotextile fences installed?							
5. Are geotextile fences maintained?							
6. Are stormwater grates protected?							
7. Are exposed areas restored?							
8. Is demolition material watered?							
9. Is traffic being confined to approved areas?							
10. Is works occurring outside approved hours?							
11. Are emission levels on plant and equipment within legal limits?							
12. Are plant and equipment noise levels acceptable?							
13. Is plant and equipment properly serviced?							
14. Is appropriate noise reduction equipment in place? E.g. on jackhammers.							
15. Are chemical and fuels stored in approved area?							
16. Has there been any chemical or fuel spill?							
17. Are recyclable products being used?							
18. Are recyclable products stockpiled for re-use?							
19. Are halogens and hydrocarbon products being used?							
Comment:							

Signature:

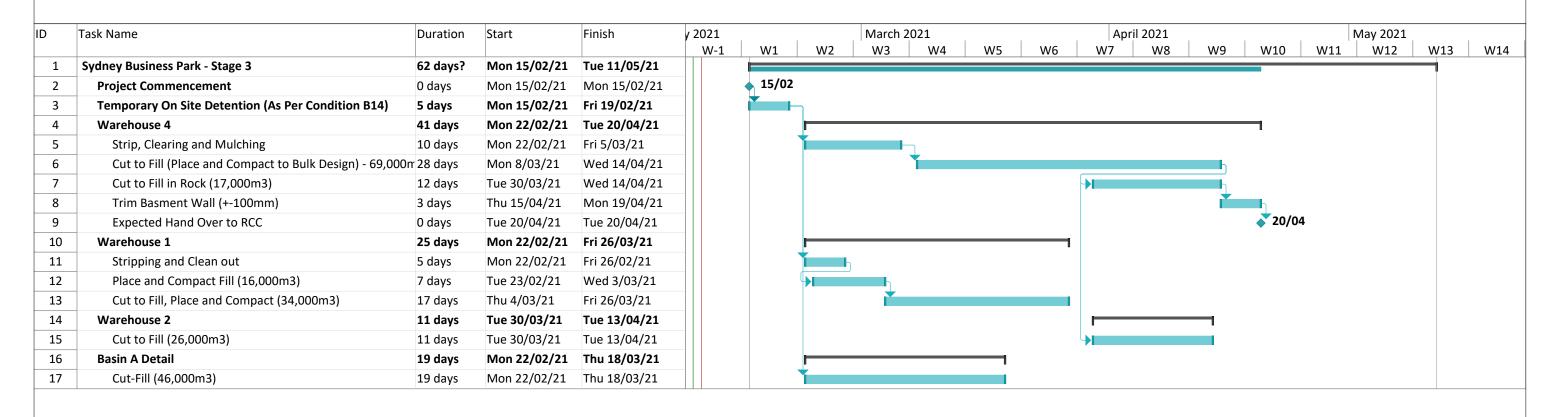
Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

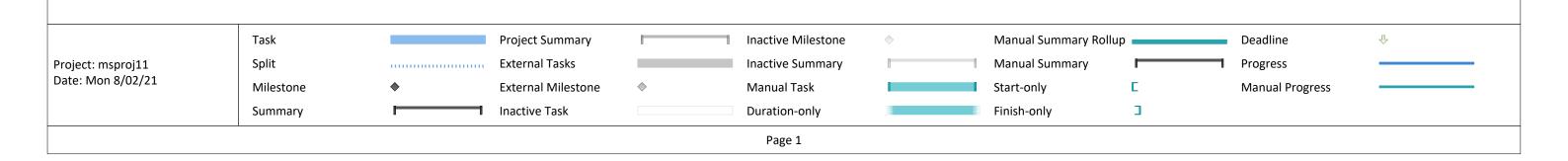
#### **APPENDIX F**

**Construction Program** 

### Preliminary Bulk Earthworks Programme - Marsden Park Stage 3 Development







Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

#### **APPENDIX G**

**Consultant Correspondence** 

#### **Shek Yuen**

From: Ania Dorocinska <Ania.Dorocinska@planning.nsw.gov.au>

**Sent:** Tuesday, 2 February 2021 10:39

**To:** Phil Jones; Owen Walsh

Subject:Development Consent Sydney Business Park, Stage 3Attachments:Development Consent Sydney Business Park, Stage 3.pdf

Good Morning,

Please find attached your development consent for Sydney Business Park, Stage 3.

As mentioned, we are awaiting a media release (I have asked them to keep it broad and not 'announce' tenants) so I ask that this is kept under wraps?

Let me know if have any questions or I can assist in any other way.

Kind regards,

#### Ania Dorocińska

Senior Environmental Assessment Officer

Industry Assessments | Department of Planning, Industry and Environment T 02 9274 6225 | M 0414 848 343 | E ania.dorocinska@planning.nsw.gov.au 4 Parramatta Square, 12 Darcy St, Parramatta, NSW 2150. www.dpie.nsw.gov.au



The Department of Planning, Industry and Environment acknowledges that it stands on Country which always was and always will be Aboriginal land. We acknowledge the Traditional Custodians of the land and waters, and we show our respect for elders past, present and emerging. We are committed to providing places in which Aboriginal people are included socially, culturally and economically through thoughtful and collaborative approaches to our work.



Marsden Park Developments Pty Ltd PO Box 262 Riverstone New South Wales 2765

2 February 2021

Chris Ritchie
Director
Industry Assessments
Department of Planning, Industry and Environment
12 Darcy St, Parramatta NSW 2150

Dear Chris,

RE: STATE SIGNIFICANT DEVELOPMENT 20-10477 - STAGE 3 SYDNEY BUSINESS PARK NOTIFICATION OF COMMENCEMENT

As per Condition A6 of State Significant Development Approval 20-10477, we notify the Department of Planning, Industry and Environment that we plan to commence works on site on 11 February 2021.

Should you have any queries regarding the satisfaction of this condition, please do not hesitate to contact me.

Yours sincerely

SYDNEY BUSINESS PARK

**OWEN WALSH** 

**Development Director** 



Marsden Park Developments Pty Ltd PO Box 262 Riverstone New South Wales 2765

2 February 2021

Chris Ritchie
Director
Industry Assessments
Department of Planning, Industry and Environment
12 Darcy St, Parramatta NSW 2150

Dear Chris,

RE: STATE SIGNIFICANT DEVELOPMENT 20-10477 - STAGE 3 SYDNEY BUSINESS PARK STAGING OF THE DEVELOPMENT

As per Condition A7 of State Significant Development Approval 20-10477, we notify the Department of Planning, Industry and Environment that the development will be staged as detailed within the Environmental Impact Statement, and that we will be commencing works on Stages 1, 2 and 3.

In regards to Construction Certificate sequencing, the first Construction Certificate will be for the preparatory construction works (including tree clearing, earthworks, retaining walls and infrastructure provision) for the site, followed by individual Construction Certificates for the Building Works for Civil Works, Warehouse 4 and 1 (Stage 1, 2 and 3 respectively).

Should you have any queries regarding the satisfaction of this condition, please do not hesitate to contact me.

Yours sincerely

SYDNEY BUSINESS PARK

**OWEN WALSH** 

**Development Director** 

#### **Shek Yuen**

From: Owen Walsh <owen.walsh@sydneybusinesspark.com.au>

Sent: Tuesday, 2 February 2021 21:26

To: Ania Dorocinska

**Cc:** phil@pjep.com.au; Michael Gray

**Subject:** Sydney Business Park - SSD 20-10477 Notifications

Attachments: 210202 - SBP Stage 3 SSD 20 10477 (Condition A6 - Notification of

Commencement).pdf; 210202 - SBP Stage 3 SSD 20 10477 (Condition A7 - Staging of the Development).pdf; 210202 - SBP Stage 3 SSD 20 10477 (Condition B24 and B25 - ACHMP).pdf; 210202 - SBP Stage 3 SSD 20 10477 (Condition B24 and B25 -

ACHMP Report).pdf

Ania,

Please find attached the following:

- Condition A6 Notification of Commencement;
- Condition A7 Notification of Staging of the Development; and
- Condition B24 and B25 Notification of issue of the Aboriginal Cultural Heritage Management Report for approval, and copy of the Aboriginal Cultural Heritage Management Report.

If you could please confirm acceptance of the notifications, and please review and approve the Aboriginal Cultural Heritage Management Report.

Should you have any queries, please do not hesitate to contact me.

Regards,

Owen Walsh | Development Director | Sydney Business Park | 15 Hollinsworth Road Marsden Park New South Wales 2765 | Phone 0413 442 096 | sydneybusinesspark.com.au

This e-mail and any files transmitted with it are confidential and intended solely for the use of the individual to whom they are addressed. If you have received this e-mail in error please inform the sender.



Marsden Park Developments Pty Ltd PO Box 262 Riverstone New South Wales 2765

7 February 2021

Chris Ritchie
Director
Industry Assessments
Department of Planning, Industry and Environment
12 Darcy St, Parramatta NSW 2150

Dear Chris,

## RE: STATE SIGNIFICANT DEVELOPMENT 20-10477 - STAGE 3 SYDNEY BUSINESS PARK CONSTRUCTION ENVIRONEMNTAL MANAGEMENT PLAN FOR BULK EARTHWORKS

As per above consent, we submit the Construction Environmental Management Plan for Bulk Earthworks to the Department of Planning, Industry and Environment for review and approval. This covers the following conditions for Bulk Earthworks:

- Condition B1 and B2 Construction Traffic Management Plan, including Driver Code of Conduct;
- Condition B11 and B12 Erosion and Sediment Control Plan;
- Condition B18 and B19 Construction Noise Management Plan;
- Condition B25 and B26 Aboriginal Cultural Heritage Management Plan including Unexpected Finds Protocol (as previously issued to the Department for approval on 02/02/2021);
- Condition B44 Unexpected Finds Protocol for Contamination; and
- Conditions C2, C3 and C4 Construction Environmental Management Plan.

If you could please review and approved this plan this week, it would be appreciated, as we are planning to commence on site on 11/02/2021.

Should you have any queries, please do not hesitate to contact me.

Yours sincerely

SYDNEY BUSINESS PARK

OWEN WALSH

**Development Director** 

#### **Owen Walsh**

From: Owen Walsh

**Sent:** Monday, 8 February 2021 3:00 PM **To:** 'council@blacktown.nsw.gov.au'

**Cc:** Michael Gray

**Subject:** Sydney Business Park - SSD 20-10477

Attachments: Appendix B - Construction Traffic Management Plan.pdf; Appendix L - Stormwater Management

Plan.pdf

Dear Council,

Please find attached the following for the Sydney Business Park Stage 3 as per SSD 20-10477:

- Dilapidation Report (as per condition A12) available via link
   https://www.dropbox.com/s/5kfa36jb5bahjbx/Sydney%20Business%20Park%20-%20Stage%203%20-%20Dilapidation%20Report%20%28Compressed%20file%29.pdf?dl=0;
- Construction Traffic Management Plan for the bulk earthworks (as per condition B1 and B2); and
- Stormwater Management Plan (as per condition B13).

Should you have any comments on the attached, please let me know and we can update the working copy accordingly.

As advised to the Department of Planning, Infrastructure and Environment, we are planning to commence works on 11/02/2021.

Regards,

Owen Walsh | Development Director | Sydney Business Park | 15 Hollinsworth Road Marsden Park New South Wales 2765 | Phone 0413 442 096 | sydneybusinesspark.com.au

This e-mail and any files transmitted with it are confidential and intended solely for the use of the individual to whom they are addressed. If you have received this e-mail in error please inform the sender.

#### **Owen Walsh**

From: Andy Karklins < Andy.Karklins@blacktown.nsw.gov.au>

**Sent:** Wednesday, 10 February 2021 12:05 PM

To: Owen Walsh
Cc: Nadeem Shaikh

**Subject:** RE: Sydney Business Park - SSD 20-10477

#### Good afternoon Owen

I have reviewed the attached CTMP for Headway Traffic & Transport at Sydney Business Park, Marsden Park Stage 3 Earthworks. It appears to be in order based on the information provided. It is the project managers responsibility to implement the traffic control measures as identified in the CTMP.

#### Regards



## Andy Karklins Traffic Management Officer

9839 6305

Andy.Karklins@blacktown.nsw.gov.au PO Box 63 Blacktown NSW 2148

blacktown.nsw.gov.au

Follow us on social media



From: Judith Portelli

Sent: Tuesday, 9 February 2021 12:43 PM

**To:** Nadeem Shaikh < Nadeem. Shaikh@blacktown.nsw.gov.au>; Georg Eberl < Georg. Eberl@blacktown.nsw.gov.au>; David Yee < David.Yee@blacktown.nsw.gov.au>; Kevin Turner < Kevin.Turner@blacktown.nsw.gov.au>; Surinder

Aneja <Surinder.Aneja@blacktown.nsw.gov.au>

Cc: Rachel Walker < Rachel. Walker@blacktown.nsw.gov.au>

Subject: FW: Sydney Business Park - SSD 20-10477

#### HI Team

please find attached the applicant's report as relevant to you for your information and review, if you have any issues please contact the applicant directly as these are conditions imposed by DPIE in the SSD consent

regards JUDY

#### **Owen Walsh**

From: Yael Lang «Yael.Lang@blacktown.nsw.gov.au»

Sent: Wednesday, 10 February 2021 12:33 PM

**To:** Owen Walsh **Cc:** Judith Portelli

**Subject:** RE: Sydney Business Park - SSD 20-10477

#### Hi Owen

I have reviewed the information provided and from an environmental health perspective, have no objections or comments on the following reports provided:

- Dilapidation Report
- Construction Traffic Management Plan for the bulk earthworks
- Stormwater Management Plan

#### Regards



#### Yael Lang

#### **Environmental Compliance Officer - Industry**

9839 6352 0438 972 918 Yael.Lang@blacktown.nsw.gov.au PO Box 63 Blacktown NSW 2148 blacktown.nsw.gov.au

Follow us on social media



From: Kevin Turner

Sent: Tuesday, 9 February 2021 2:11 PM

**To:** Yael Lang < Yael.Lang@blacktown.nsw.gov.au> **Subject:** FW: Sydney Business Park - SSD 20-10477

Hi Yael,

Can you please review and provide comment good or bad to Owen with a cc to Judy

Thanks, Kevin



Marsden Park Developments Pty Ltd PO Box 262 Riverstone New South Wales 2765

11 February 2021

Chris Ritchie
Director
Industry Assessments
Department of Planning, Industry and Environment
12 Darcy St, Parramatta NSW 2150

Dear Chris,

RE: SSD-10477 - STAGE 3 SYDNEY BUSINESS PARK
NOTIFICATION AND APPROVAL REQUEST OF COMMENCEMENT

As per Condition A6 of SSD-10477, we provide further notification on the planned commencement of Bulk Earthworks, and subject to all approvals being in place, seek approval form the Planning Secretary to commence works on site on 15 February 2021.

Should you have any queries regarding the satisfaction of this condition, please do not hesitate to contact me.

Yours sincerely

SYDNEY BUSINESS PARK

**OWEN WALSH** 

**Development Director** 

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

#### **APPENDIX H**

**Dilapidation Report** 



PROJECT SOLUTIONS PTY LTD PO BOX 851 MITTAGONG NSW 2575

mob: 0416 156 962 info@projectsolutions.com.au www.projectsolutions.com.au

Established 2000.

#### Astoria Street, Marsden Park NSW 2765

Sydney Business Park, Stage 3

#### **DILAPIDATION REPORT**



For Marden Park Developments Pty. Limited

5<sup>th</sup> February 2021

**Development Consent Application Number: SSD-10477** 

Project Solutions Job No: 21074

### **Table of Contents**

		Page
1.0	INTRODUCTION	3
2.0	SCOPE OF WORKS	3
3.0	SITE DESCRIPTION	4
4.0	OBSERVATIONS	5
5.0	CONCLUSIONS	7

APPENDIX A - Site Plan

APPENDIX B – Photographic Record of the Findings

Property	Pages
Covering Pages	1 to 13
Astoria Street – Southern side heading west	14 to 170
Astoria Street – Intersection with South Street	171 to 175
Astoria Street – Northern side heading east	175 to 295
South Street	296 to 369
Western site boundary - general overview of the site	370 to 403
Eastern site boundary	403 to 458

#### 1.0 INTRODUCTION

This report has been prepared from notes and photographic evidence obtained by a visual inspection of the below-mentioned areas. Project Solutions Pty. Limited has compiled the report acting on behalf of Marden Park Developments Pty. Limited.

The report aims to record the existing condition of the public property deemed to be within a potential zone of influence prior to the commencement of works associated with development of LOT 4 DP 1210172 & Part lots 50 & 51 DP 1265695, Marsden Park. The report has been compiled in accordance with condition A12 from the development consent application no. SSD-10477.

In summary: -

Engaging Company: Marden Park Developments Pty. Limited

Contract Site: LOT 4 DP 1210172 & Part lots 50 & 51 DP 1265695,

Astoria Street, Marsden Park

<u>Date of Survey</u>: 13<sup>th</sup> January 2021

DA Consent No. SSD-10477

<u>Areas Surveyed</u>: Street – Adjacent public property.

South Street - Adjacent public property.

General overview of the site.

Eastern site boundaries – Heading south.

The particulars set out in this report are for the exclusive use of Marden Park Developments Pty. Limited. We accept no responsibility as a result of the use of this report by any other party. This report shall not be construed as a certificate or warranty of the areas surveyed. Refer to the disclaimer within the report.

#### 2.0 SCOPE OF WORKS

The purpose of the report was to note and record the existing status of the public infrastructure adjacent to the site and extending 150m past the site boundaries.

The Dilapidation Report shall be used amongst other means to assess the responsibility for any damage and / or making good arising out of the construction works to the areas listed above. The report is to provide a basis of discussion should it be alleged that the construction works has contributed to damage to any of the surveyed areas.

#### 3.0 SITE DESCRIPTION

The site is located at LOT 4 DP 1210172 & Part lots 50 & 51 DP 1265695, Astoria Street, Marsden Park.

The development of the site is for the 'construction and operation of 'Sydney Business Park, Stage 3, including:

- four warehouse and distribution facilities
- ancillary car parking, infrastructure provision and landscaping
- nine lot subdivision
- earthworks
- vegetation clearing
- construction of two estate roads and associated infrastructure'.

The site is located in the following satellite image:-



Ref: Google maps

Access to the site shall be via the western end of the existing Hollinsworth Road and via both Astoria and Souths Streets. At the time of the inspection, the site was a relatively level 'bush' site with any earthworks yet to occur.

#### 4.0 OBSERVATIONS

The main component of the report is the photographic and written evidence within appendix 'B' of this report.

The issued USB flash drive contains the following files: -

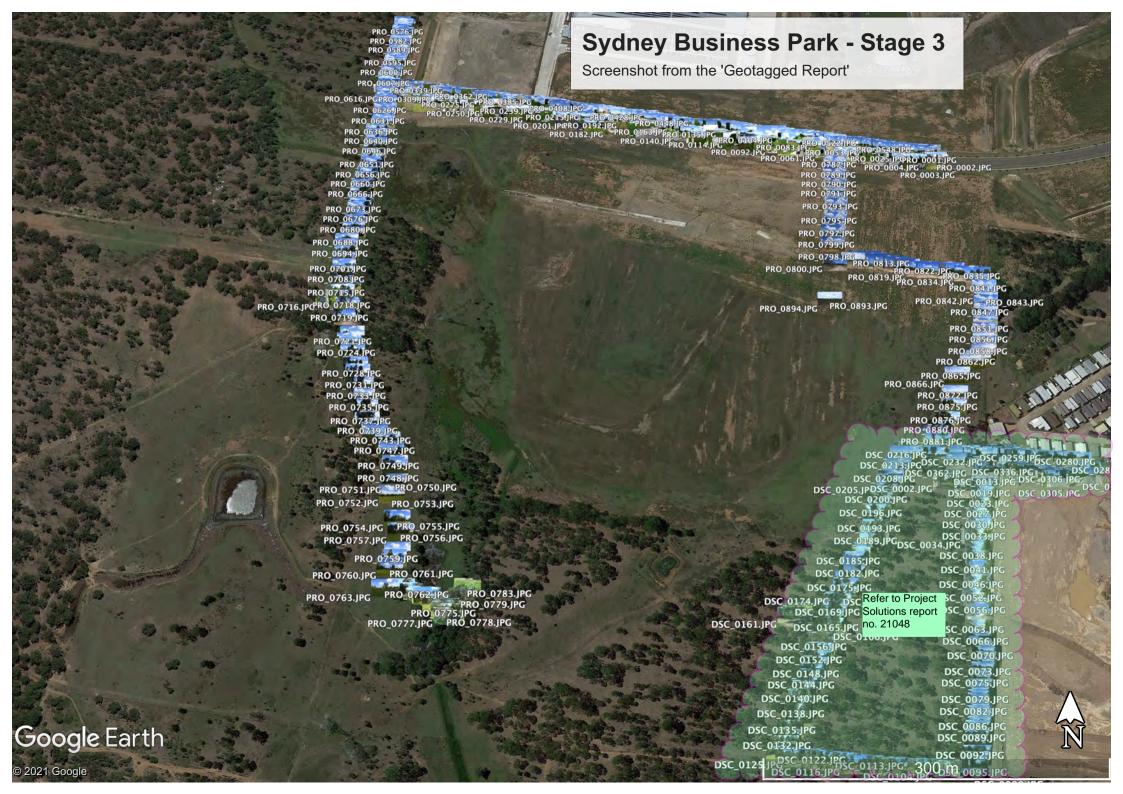
- The photographic / written reports (PDF).
  - a. Also includes a 'Geotagged report' illustrating the approximate location of each photograph taken of the external areas.
- o The photographs used in the report (JPG's).
  - a. The Jpeg photographs on the USB flash drive are 36 mega-pixels to allow for greater resolution if a photo needs to be enlarged and viewed in greater clarity.

Note: the report should only be used to identify a particular photograph, which may require greater inspection. If a photo is required to be viewed in greater clarity, the relevant photograph/s can then be sourced on the issued USB flash drive and enlarged.

The photographs recording the external areas have been "Geotagged". To make use of this application, ensure that "Google Earth" has been installed on your computer. You will find the "Geotagged Report.kmz" file on the issued USB flash drive.

- 1. Open the ".kmz" file on the USB flash drive.
- 2. The application will launch in "Google Earth" (if installed on your computer).
- 3. You will note a series of numbered thumbnail photographs within and around the construction site, by clicking on an arrow the applicable photograph, taken in that approximate location will be revealed.

Note: this is an interactive file to be accessed on a computer via Google Earth and <u>not</u> from a visual interpretation of the screenshot of the 'Geotagged Report' on the following page.



The report does not allow for: -

- ❖ Faults to inaccessible parts of the adjoining properties / buildings.
- ❖ Faults concealed behind permanent wall cladding (i.e. timber paneling or floor coverings)
- ❖ Any testing.
- Arborist reporting.
- Geotechnical or subsurface investigations.
- Faults not apparent on a visual inspection.
- Faults apparent only in different environmental or weather conditions.
- ❖ Latent faults not apparent at the time of the inspection.
- ❖ Inspection of roof and sub floor voids or areas deemed dangerous to inspect.
- Pest inspection report.
- Inspection of Building services, plant and machinery.
- Requirements of the Building Code of Australia.
- Distribution of reports to parties other than our Client.

#### 5.0 CONCLUSIONS

A record of the condition of the areas as of the 5<sup>th</sup> February 2021 has been presented. The findings are illustrated in the photographs bound within Appendix B of this report.

The following items may be referred to should a need arise to review this report: -

- 1. Project North the cardinal compass points referenced within the report have Hollinsworth Road running east-west on the northern side of the site.
- 2. The photographs illustrated in the 'geotagged report' are those which the camera had contact with the 'tagging satellite'. In some instances this contact can be lost through interference (electronic, magnetic, phone towers etc) and photos may not be tagged and illustrated within the report.
- 3. We suggest using the 'Geotagged Report' to source a photograph recording a particular
- 4. All roads recorded as part of this report were inspected and photographed by travelling in a direct route along one side of the road and then returning and travelling along the opposite side of the road. The photos reference the areas between numbered light poles.
- 5. Besides using the 'Geotagged Report' to assist in the location of a particular photograph, we also suggest that you refer to the previous series of photographs in the report.
- 6. With the amount of adjacent industrial properties, many heavy vehicles utilise Hollinsworth Road, Astoria and South Streets.

In the best interest of all parties associated with this development a declaration for signing has been prepared on the following page.

#### **SIGN-OFF SHEET**

I / we believe that the written and photographic report is a true record of the existing condition of the following properties / areas as of the  $5^{th}$  February 2021.

Areas Surveyed:	Astoria Street – Adjacent public property.	
	South Street – Adjacent public property.	
	General overview of the site.	
	Eastern site boundaries – Heading south.	
Signed	Date	
Name		
On behalf of		
Signed	Date	
Name		
On behalf of		
Signed	Date	
N.T.		
On behalf of		
Signed	Date	
NI		
On behalf of		

We wish you every success with the development of this project. Thank you for choosing Project Solutions Pty. Limited to conduct your 'Dilapidation Reporting'. Please do not hesitate to contact the undersigned if you have any questions associated with the contents of this report.

Yours faithfully,

**Project Solutions Pty. Limited** 

Douglas Sandilands

Director

#### **DISCLAIMER**

Reports produced by Project Solutions Pty Ltd are prepared for a particular Client's objectives and are based on a specific scope, conditions and limitations, as agreed between Project Solutions and the Client. Information and / or report(s) prepared by Project Solutions may not be suitable for uses other than the original intended objective. No parties other than the Client should use any information and/or report(s) without first conferring with Project Solutions.

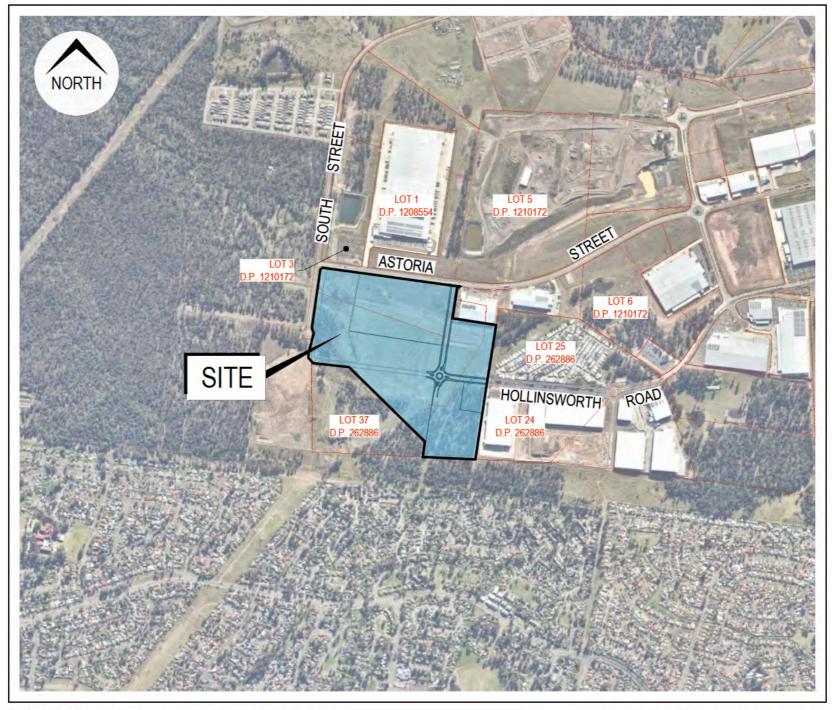
The information and/or reports prepared by Project Solutions should not be reproduced, presented or reviewed except in full. Before passing on to a third party any information and / or reports by Project Solutions, the Client is to fully inform the third party of the objective and scope and any limitations and conditions, including any other relevant information which applies to the material prepared by Project Solutions.

This survey and accompanying photographs is intended to present, as reasonably as possible, a record of the condition, by visible inspection only, of the aforementioned properties / areas.

The Client must also satisfy themselves that the report is accurate and contains no omissions. Project Solutions disclaims all responsibility for any loss whatsoever occasioned by any error in, or omission from this report.

Appendix A

Site Plan



SITE / LOCATION (Image courtesy of Nearmap 23.06.2020)

LOTS 4 & 5, D.P. 1210172 LOT 36, D.P. 262886

## Appendix B

Photographic Record of the Findings



Astoria Street. Area adjacent to 21 Astoria Street. Southern side of the street. Heading west. Area adjacent to light pole no. 925787.



Astoria Street. Area adjacent to 21 Astoria Street. Southern side of the street. Heading west. Area adjacent to light pole no. 925787.

Astoria Street. Area adjacent to 21 Astoria Street. Southern side of the street. Heading west. Area between light pole no. 925787 & 925788.



Astoria Street. Area adjacent to 21 Astoria Street. Southern side of the street. Heading west. Area between light pole no. 925787 & 925788.

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Astoria Street. Area adjacent to 21 Astoria Street. Southern side of the street. Heading west. Area between light pole no. 925788 & 925789.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925788 & 925789.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925788 & 925789.



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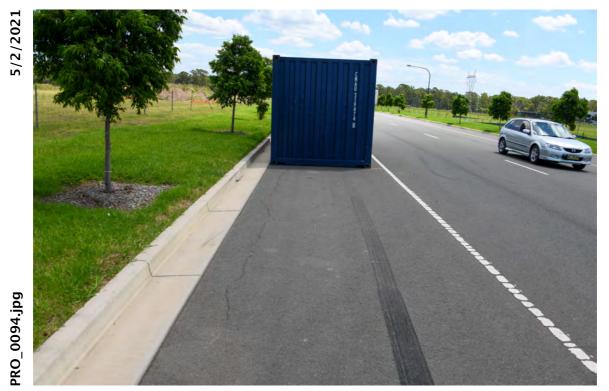
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Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Light pole no. 925790.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925790 and 925791.



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Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Light pole no. 925791.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925791 and 925792.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925791 and 925792.



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Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925792 and 925793.



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Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925793 and 925794.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Light pole no. 925793.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925793 and 925794.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925793 and 925794.



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Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Light pole no. 925794.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925794 and 925795.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925794 and 925795.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925794 and 925795.



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Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925795 and 925796.



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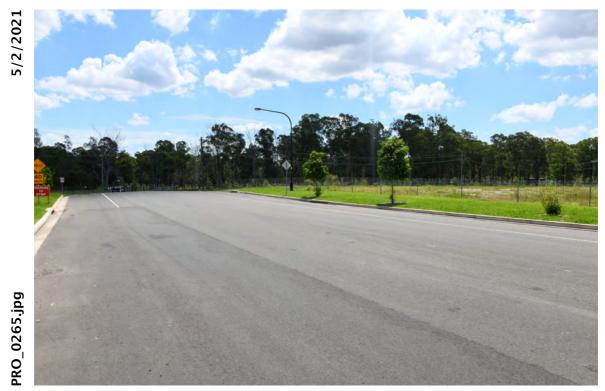
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Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925795 and 925796.



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Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925795 and 925796.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Light pole no. 925796.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925796 and South Street.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925796 and South Street.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925796 and South Street.



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Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925796 and South Street.



Astoria Street. Area adjacent to the proposed development. Southern side of the street. Heading west. Area between light pole no. 925796 and South Street.



Astoria Street. Area adjacent to the proposed development. Intersection with South Street.



Astoria Street. Area adjacent to the proposed development. Intersection with South Street.



Astoria Street. Area adjacent to the proposed development. Intersection with South Street. Facing east.



Astoria Street. Area adjacent to the proposed development. Intersection with South Street.



Astoria Street. Area adjacent to the proposed development. Intersection with South Street.



Astoria Street. Area adjacent to the proposed development. Intersection with South Street.



Astoria Street. Area adjacent to the proposed development. Intersection with South Street.



Astoria Street. Area adjacent to the proposed development. Intersection with South Street.



Astoria Street. Area adjacent to the proposed development. Intersection with South Street.



Astoria Street. Area adjacent to the proposed development. Intersection with South Street.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east approaching light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Light pole no. 925796.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925796 & 925795.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925796 & 925795.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925796 & 925795.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925796 & 925795.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Light pole no. 925795.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.

Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.

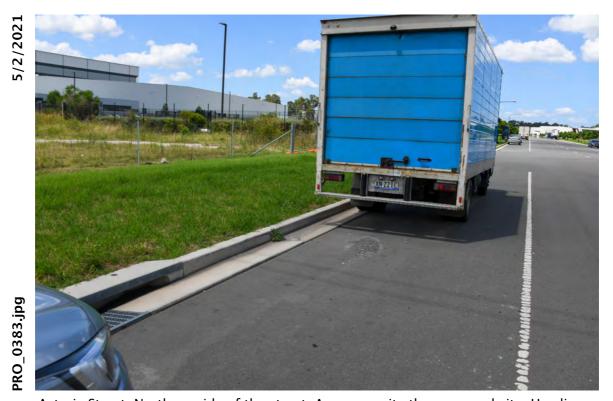
Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.

Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925795 & 925794.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Light pole no. 925794.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925794 & 925793.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925794 & 925793.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925794 & 925793.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925794 & 925793.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925794 & 925793.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Light pole no. 925793.

Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.

Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.

Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.

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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.

Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.



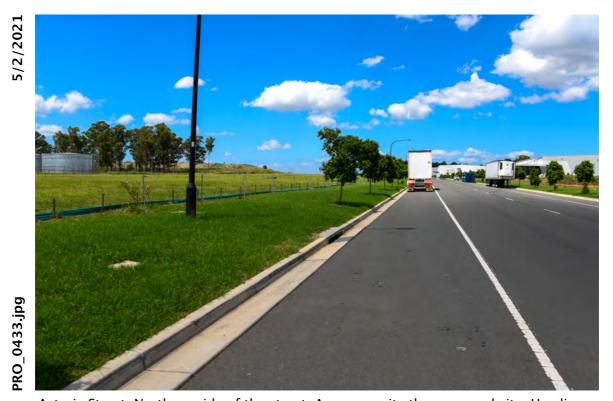
Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925793 & 925792.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Light pole no. 925792.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925792 & 925791.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925792 & 925791.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925792 & 925791.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925792 & 925791.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925792 & 925791.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925792 & 925791.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Light pole no. 925791.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925791 & 925790.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925791 & 925790.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925791 & 925790.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925791 & 925790.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925791 & 925790.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Light pole no. 925790.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925790 & 925789.

Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925790 & 925789.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925790 & 925789.

Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925790 & 925789.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925790 & 925789.

Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925790 & 925789.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925790 & 925789.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925790 & 925789.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925790 & 925789.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925790 & 925789.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925790 & 925789.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Light pole no. 925789.

Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925789 & 925788.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925789 & 925788.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925789 & 925788.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925789 & 925788.

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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925789 & 925788.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925789 & 925788.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925789 & 925788.



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Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925789 & 925788.



Astoria Street. Northern side of the street. Area opposite the proposed site. Heading east. Area between light pole no. 925789 & 925788.



Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Area between light pole no. 925789 & 925788.



Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Area between light pole no. 925789 & 925788.



Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Area between light pole no. 925789 & 925788.



Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Area between light pole no. 925789 & 925788.



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Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Area between light pole no. 925789 & 925788.



Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Light pole no. 925788.



Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Area between light pole no. 925788 & 925787.



Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Area between light pole no. 925788 & 925787.



Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Area between light pole no. 925788 & 925787.



Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Area between light pole no. 925788 & 925787.



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Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Area between light pole no. 925788 & 925787.



Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading east. Light pole no. 925787.



Astoria Street. Northern side of the street. Area opposite 21 Astoria Street. Heading west. Area between light pole no. 925788 & 925787.



South Street. Refer to the following series of photographs for a record of the South Street adjacent to the western site boundary.



South Street. Area to the north of the intersection with Astoria Street. Heading south. Area between power pole no. 738599 and 928720.



South Street. Area to the north of the intersection with Astoria Street. Heading south. Power pole no. 738599.



South Street. Area to the north of the intersection with Astoria Street. Heading south. Area between power pole no. 738599 and 928720.



South Street. Area to the north of the intersection with Astoria Street. Heading south. Area between power pole no. 738599 and 928720.



South Street. Area to the north of the intersection with Astoria Street. Heading south. Area between power pole no. 738599 and 928720.



South Street. Area to the north of the intersection with Astoria Street. Heading south. Area between power pole no. 738599 and 928720.



South Street. Area to the north of the intersection with Astoria Street. Heading south. Area between power pole no. 738599 and 928720.



South Street. Area to the north of the intersection with Astoria Street. Heading south. Area between power pole no. 738599 and 928720.



South Street. Area to the north of the intersection with Astoria Street. Heading south. Area between power pole no. 738599 and 928720.



South Street. Area to the north of the intersection with Astoria Street. Heading south. Area between power pole no. 738599 and 928720.



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South Street. Area to the north of the intersection with Astoria Street. Heading south. Area between power pole no. 738599 and 928720.



South Street. Area to the north of the intersection with Astoria Street. Heading south. Power pole no. 928720.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.

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South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



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South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Intersection with Astoria Street. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.

South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.

South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.

South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 928720 and 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Power pole no. 262439.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.

South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.

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South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.

South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.

South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262439 and 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Power pole no. 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Power pole no. 262438.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.

South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.

South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.

South Street. Area to the south to the intersection with Astoria Street. Area adjacent to the site of the proposed development. Heading south. Area between power pole no. 262438 and 703837.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 703837. Noting the dumped rubbish on the side of the road.





South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 703837. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 703837. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 703837. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Power pole no. 703837. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.









South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Heading south. Area approaching power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Area of power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Area of power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Area of power pole no. 756190. Noting the dumped rubbish on the side of the road.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Area of power pole no. 756190. Noting the dumped rubbish on the side of the road.



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South Street. Southern end of the street. Area adjacent to the site of the proposed development. Power pole no. 756190.



South Street. Southern end of the street. Area adjacent to the site of the proposed development. Area of power pole no. 756190. Noting the dumped rubbish on the side of the road. Facing north.



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Eastern side of the site of the proposed development. Heading east along the common boundary with 21 Astoria Street (southern side of the property). Refer to the 'Geotagged report' for the approximate location of each photo. General overview of the site.







































Eastern side of the site of the proposed development. Heading east along the common boundary with 21 Astoria Street (southern side of the property). Refer to the 'Geotagged report' for the approximate location of each photo. General overview of the site.



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PRO\_0832.jpg



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Eastern side of the site of the proposed development. Heading south along the eastern site boundary. Refer to the 'Geotagged report' for the approximate location of each photo. General overview of the site. Area approaching Hollinsworth Road.

















Eastern side of the site of the proposed development. Heading south along the eastern site boundary. Refer to the 'Geotagged report' for the approximate location of each photo. General overview of the site. Area approaching Hollinsworth Road.





Eastern side of the site of the proposed development. Heading south along the eastern site boundary. *Refer to the 'Geotagged report' for the approximate location of each photo.* General overview of the site. Area approaching Hollinsworth Road.

























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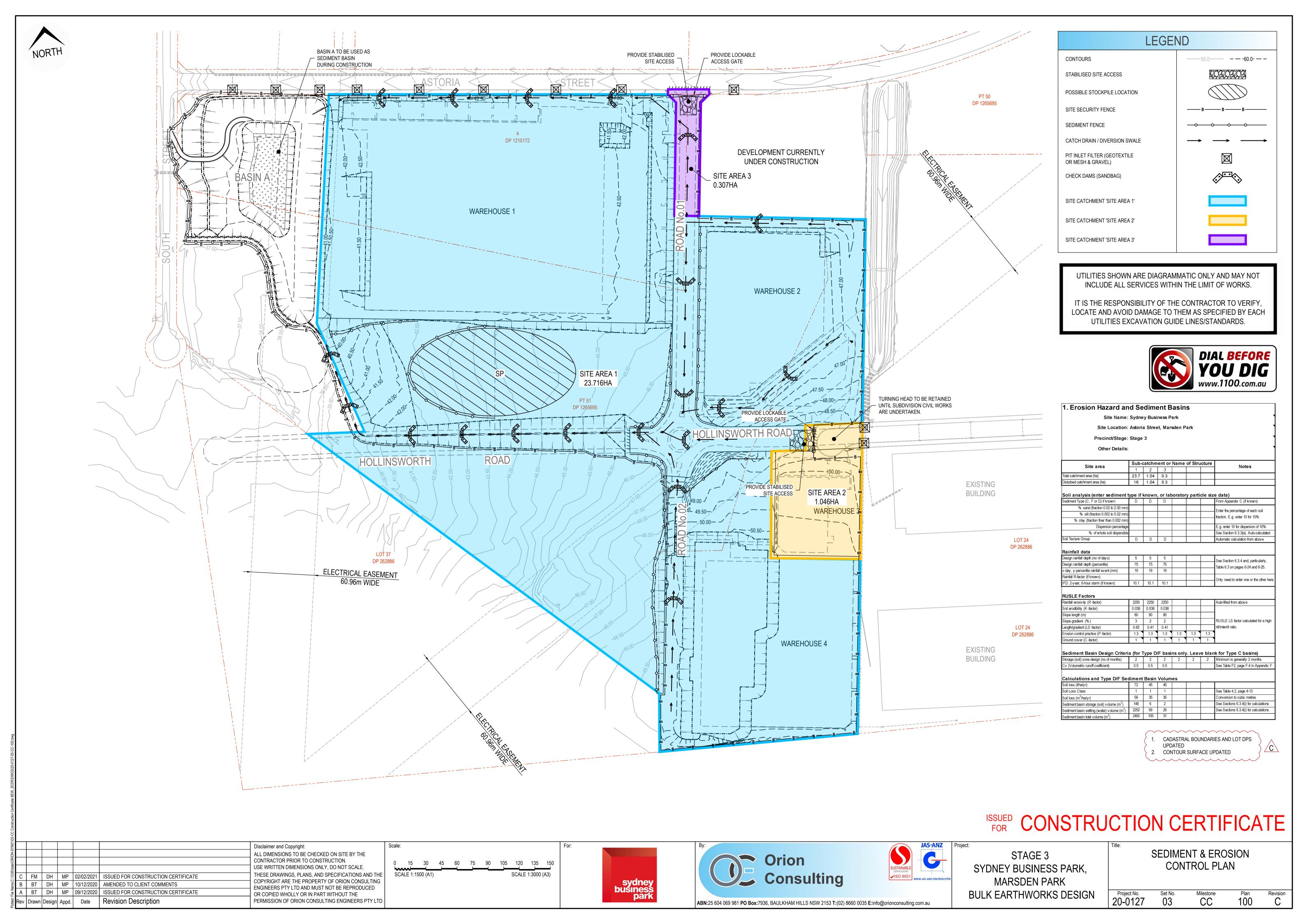


Eastern side of the site of the proposed development. Refer to the 'Geotagged report' for the approximate location of each photo. General overview of the site. Heading north.

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

# **APPENDIX I**

**Erosion and Sediment Control Plan** 



# **GENERAL NOTES:**

- I. ALL EROSION AND SEDIMENT CONTROL MEASURES. INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL. SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE "ENVIRONMENT PROTECTION AUTHORITY".AND "DEPT OF LAND AND WATER CONSERVATION". MEASURES OUTLINED IN THE SEDIMENT & EROSION CONTROL PLAN MUST BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING AND AFTER THE CONSTRUCTION WORKS.
- 2. TOPSOIL FROM ALL AREAS TO BE DISTURBED SHALL BE STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IN THOSE AREAS.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
- 4. ALL TAIL-OUT DRAINS SHALL BE GRASSED AND TRAPEZOIDAL IN SECTION. STRAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVICE WHERE REQUIRED.
- . VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING DEVELOPMENT CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS. AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED OFF.
- 6. DISTURBANCE OF VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS AND DRAINAGE LINES. NO LOT GRADING SHALL BE CARRIED OUT IN UNDISTURBED AREAS WITHOUT CONSULTATION WITH COUNCIL'S ENGINEER.
- ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN 14 WORKING DAYS FROM THE CONCLUSION OF LAND SHAPING.
- MINIMISE DUST BY WATERING WHEN REQUIRED

# STOCKPILE NOTES:

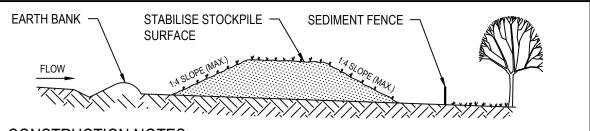
- 9. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
- 10. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 14 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH A MULCH OR WITH TEMPORARY
- 11. FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATE.
- 12. ALL STOCKPILES TO BE (MAX) 2m HIGH AND PROTECTED WITH SILT FENCE.

# **SPECIAL NOTES:**

- 13. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE.
- 14. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE GUIDELINES SET OUT IN "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION " -4TH EDITION AND THE ACCOMPANYING ROAD AND DRAINAGE PLANS.
- CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT.
- MANAGEMENT DEVICES SHALL BE MAINTAINED ON A REGULAR BASIS. WHERE CLEANING IS REQUIRED, THE SEDIMENT SHALL BE REMOVED TO A POINT NOMINATED BY THE ENGINEER.
- 17. PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS, AND AFTER THE ROAD CENTRELINES HAVE BEEN PEGGED AND/OR PERMANENTLY MARKED, THE SITE MUST BE INSPECTED BY COUNCIL'S REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE TO IDENTIFY AND APPROPRIATELY
- a) THE TREES TO BE RETAINED. b) ALL TREES TO BE LEFT UNDISTURBED AND TO BE CORDONED OFF.
- 18. NO TREES SHALL BE REMOVED WITHOUT COUNCIL'S CLEARANCE.
- 19. MANAGEMENT DEVICES TO REMAIN UNTIL THE END OF THE MAINTENANCE PERIOD.

# SEDIMENTATION CONTROL DEVICES:

- 20. ALL STRAW BALES SHALL BE BOUND WITH WIRE. STRAW BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALE SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 450mm INTO THE GROUND AND LOCATED ON THE BALE CENTRE LINE.
- 21. SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2m (3m MAX) CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.

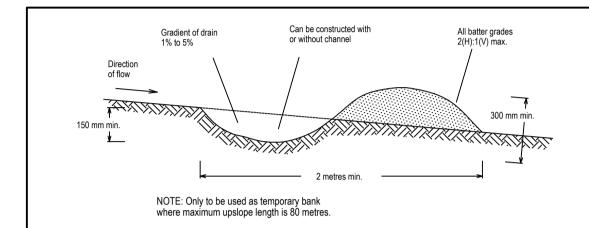


# **CONSTRUCTION NOTES:**

- 1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION,
- CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
- CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS  $3.\ \ \$  Where there is sufficient area. Topsoil stockpiles shall be less than 2 metres in Height
- 4. ALL STOCKPILES ARE TO BE LOCATED AND PLACED IN ACCORDANCE WITH THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN.
- 5. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) NO STABILISATION IS REQUIRED. REVIEW THE ADEQUACY OF SEDIMENT CONTROLS IF RAINFALL IS PREDICTED. 6. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) THE FOLLOWING ADDITIONAL CONTROLS ARE
- -MAXIMUM BATTER SLOPE REDUCED TO 1:4
- -CONSTRUCT A CONTOUR DRAIN ON THE LOW SIDE OF THE STOCKPILE, AND DISCHARGING THROUGH A STRAW BALE OR 200mm HIGH GRAVEL DAM
- -ESTABLISH GRASS COVER TO SURFACE OF STOCKPILE WITHIN 14 DAYS, USING HYDROMULCH WITH A 75:25 MIX OF SEASONAL AND PERMANENT GRASS SEEDS, AND A STRAW MULCH THICKNESS OF NO
- CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE.

# **STOCKPILES**

SD 4-1

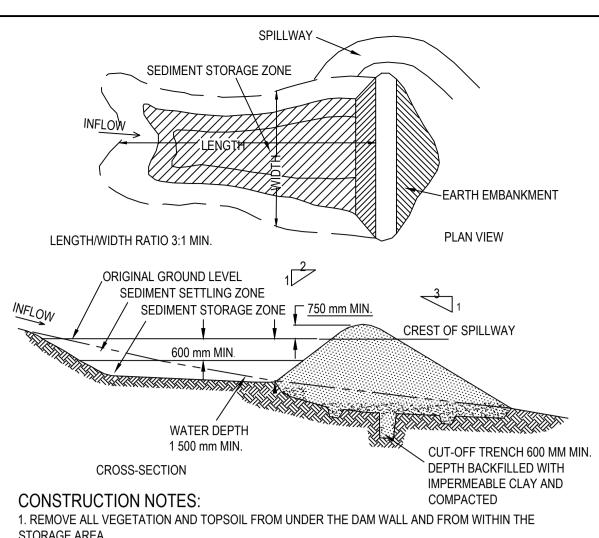


# Construction Notes

- 1. Build with gradients between 1 percent and 5 percent
- 2. Avoid removing trees and shrubs if possible work around them. 3. Ensure the structures are free of projections or other irregularities that could impede water flow.
- 4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped. 5. Ensure the banks are properly compacted to prevent failure.
- 6. Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW)

SD 5-5



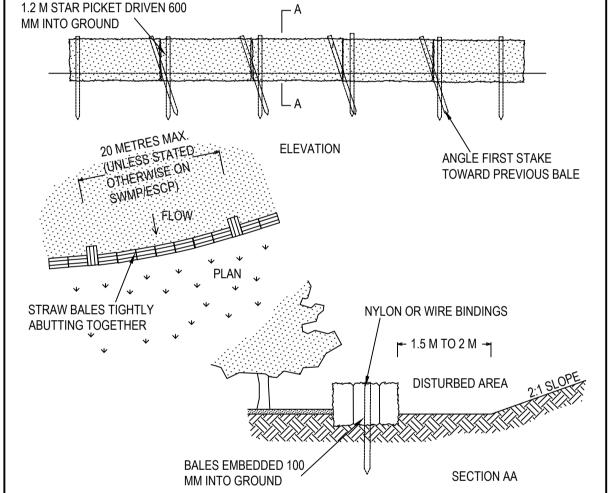
2. CONSTRUCT A CUT-OFF TRENCH 500 MM DEEP AND 1,200 MM WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST. 3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS

- SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY. 4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR
- 5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100 MM TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE 6. SPREAD THE FILL IN 100 MM TO 150 MM LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT
- FOLLOWING THE SWMP. 7. CONSTRUCT THE EMERGENCY SPILLWAY. 8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP

EARTH BASIN - WET

(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY)

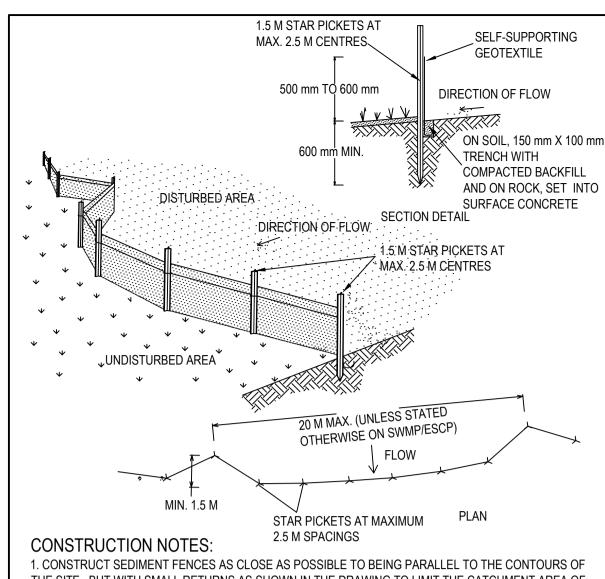




# **CONSTRUCTION NOTES:**

- 1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE
- CONTOURS OF THE SITE. 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS
- BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND. 3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
- 4. EMBED EACH BALE IN THE GROUND 75 mm TO 100 mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE.DRIVE THEM 600 mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
- 5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
- 6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED -
- THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

STRAW BALE FILTER SD 6-7



THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE

2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE

3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH, ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS. 4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE

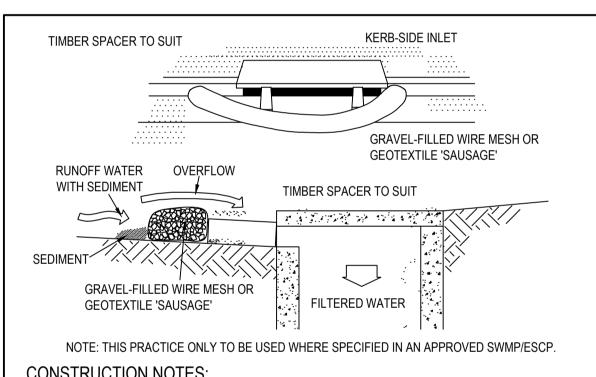
MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE

OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY. 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAF

6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

# SEDIMENT FENCE

SD 6-8

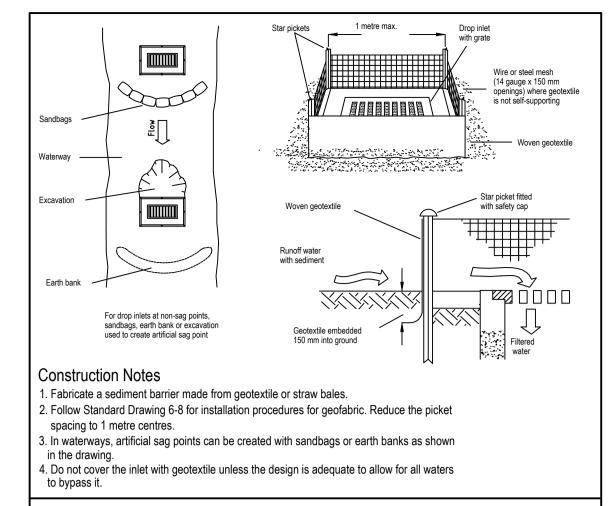


# CONSTRUCTION NOTES:

- 1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS. 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
- 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- 6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

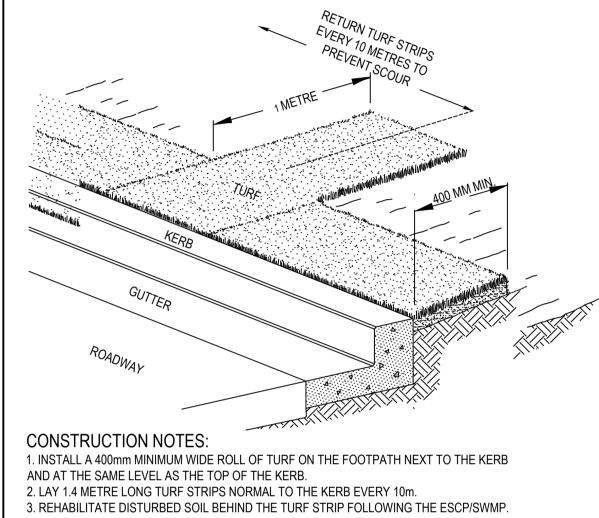
# MESH AND GRAVEL INLET FILTER

SD 6-11



GEOTEXTILE INLET FILTER

SD 6-12



KERBSIDE TURF STRIP

SD 6-13

MIN. WIDTH 3 METRES **CONSTRUCTION SITE** - MIN. LENGTH 15 METRES RUNOFF DIRECTED TO SEDIMENT TRAP/FENCE DGB 20 ROADBASE OR 30 MM AGGREGATE **EXISTING ROADWAY** GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING

OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A

MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N

**CONSTRUCTION NOTES:** 

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE. 2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE. 3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. 4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST

5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE

STABILISED SITE ACCESS

SD 6-14

# ISSUED CONSTRUCTION CERTIFICATE

A | BT | DH | MP | 09/12/2020 | ISSUED FOR CONSTRUCTION CERTIFICATE OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD Revision Description ev Drawn Design Appd. Date

Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED

Scale:

sydney business park





STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **BULK EARTHWORKS DESIGN**  **SEDIMENT & EROSION CONTROL NOTES** & DETAILS

20-0127

03

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

# **APPENDIX J**

**Driver Code Of Conduct** 



#### Sydney Business Park - Stage 3 Bulk Earthworks

#### **Code of Conduct**

#### **Conditions of Entry to Site for Construction Works on the Project**

- The delivery and pick ups entry point is from the main entry off the Astoria Street. All vehicles must enter site via the entry gate before stopping at the designated delivery area.
- Under no circumstance are vehicles to stop, park, load/unload on Astoria Street.
- All vehicles must minimise noise (such as compression braking) on Astoria Street, particularly adjacent to the site and within the vicinity of the retirement village.
- Drivers to stop at designated delivery area and sign in on register in the site compound. Drivers are to organize to meet Subcontractor before driving on to site.
- You must wear a Hard Hat, Hi visibility vest and steel cap boots at all times when on site.
- Follow site 10km speed limit and watch out for any plant and pedestrian movements. Before commencing unloading/ loading, check your immediate surroundings for danger. Do not put your self or others at risk with your activities.
- Drivers must stay in the vicinity of his/her vehicle whilst unloading, if you are accompanied by
  others who have no need to be involved in the work activity, they are to stay in the vehicle at all
  times.
- If you need to go elsewhere such as the toilet or lunch rooms etc., you must ensure that your vehicle is in a safe condition to be left unattended, i.e. the engine is shut down, park brake is on and the keys are removed from the ignition.
- In the event of an emergency an ALARM will sound. When you hear the alarm, go directly to the evacuation assembly area. Do not attempt to remove your vehicle from site as this may interfere with the orderly evacuation of personnel. When it is safe to do so, RCC personnel will release you to remove your vehicle.
- All vehicles leaving site must have their loads covered and must not track dirt/mud on to Astoria
   Street.
- Site vehicles to Enter and Exit site in a forward-facing direction only via the signposted Entry and Exit gates Turning circle in place to eliminate reversing alarm noise generated by vehicles.
- Site vehicles to give way to existing traffic along the Astoria Street when exiting site.
- Trucks are not to be permitted to park on hardstand overnight.
- No Truck or Vehicle Maintenance is to be undertaken or occur onsite.



# **Hours of Work**

Access to and from site are limited by the following hours:

Monday to Friday: 07:00 to 18:00;

• Saturday: 08:00 to 13:00; and

• Sunday and Public Holidays: Site Closed.

# **Access Plan**



# Induction

I have read the attached site induction. I fully understand its contents and agree to comply with the onsite requirements.

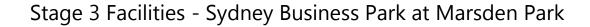
Name	Date	Registration	Signature

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

# **APPENDIX K**

Construction Noise Management Plan





Noise and Vibration Management Plan (excavation - earthworks)

**SYDNEY**9 Sarah St
MASCOT NSW 2020
(02) 8339 8000

ABN 98 145 324 714 www.acousticlogic.com.au

Project ID	20210089.1
Document Title	Noise and Vibration Management Plan (excavation
Attention To	Marsden Park Developments Pty Ltd

Revision	Date	Document Reference	Prepared By	Checked By	Approved By
0	8/02/2021	20210089.1/0802A/R0/HC	HC		GW

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#### 1 INTRODUCTION

Acoustic Logic has been engaged to prepare a Noise and Vibration Management Plan (earthworks) for the proposed Stage 3 Facilities - Sydney Business Park at Marsden Park.

This report has been prepared to satisfy Condition B15, Condition B16, Condition B17, Condition B18, and Condition B19 in the 'Development Consent, Section 4.38 of the Environmental Planning and Assessment Act 1979' by the Energy, Industry and Compliance, application no. SSD-10477, dated 28 January 2021. The conditions have been addressed as follow:

- Condition B15, Condition B16: 'Hours of Work';
- Condition B17: 'Construction Noise Limits';
- Condition B18 and Condition B19: 'Construction Noise Management Plan'.

The report will address the following elements:

- Identification of the noise and vibration guidelines which will be applicable to this project;
- Identification of potentially impacted nearby development;
- Identify likely sources of noise and vibration generation and predicted noise levels at nearby development;
- Formulation of a strategy to comply with the standards identified and mitigation treatments in the event that compliance is not achievable.

This assessment is based on previous unattended noise monitoring data and engineering assumptions in the report of 'STAGE 3 FACILITIES - SYDNEY BUSINESS PARK, (MARSDEN PARK), SSD NOISE & VIBRATION IMPACT ASSESSMENT', report No. 20232, VERSION B, provided by Wilkinson Murray Pty Limited, dated July 2020.

This office has been advised by client this noise and vibration management plan report will only excavation stage (earthworks) for the proposed Stage 3 Facilities - Sydney Business Park.

#### **2 SITE DESCRIPTION**

The project site is located at the Hollinsworth Road (future), Marsden Park and noise sensitive development in the vicinity of the project site consists of the following:

- Receiver 1: Ikea DC Sydney existing industrial receivers, located to the north of the site;
- Receiver 2: Blacktown Waste Service future industrial receiver currently under construction, located to the north-east of the site;
- Receiver 3: Tigerpak Packaging existing industrial receiver adjoining the north-east boundary of the site;
- Receiver 4: Bucher Municipal existing industrial receiver located to the north-east of the site;
- Receiver 5: Residential development Ingenia Estate, adjoining the east boundary of the site;
- Receiver 6: Logos Property existing industrial receivers, adjoining the east boundary of the site;
- Receiver 7: Existing residential receivers located to the south of the site; and
- Receiver 8: Existing residential receivers located to the north-west of the site.

It is noted that there is an existing 2.5 m high noise barrier constructed to the north-east of the site along the southern boundary of the Ingenia Estate (R2) (as highlighted in red in Figure 1 below).

A site map with measurement description is presented in below.

Industrial receiver

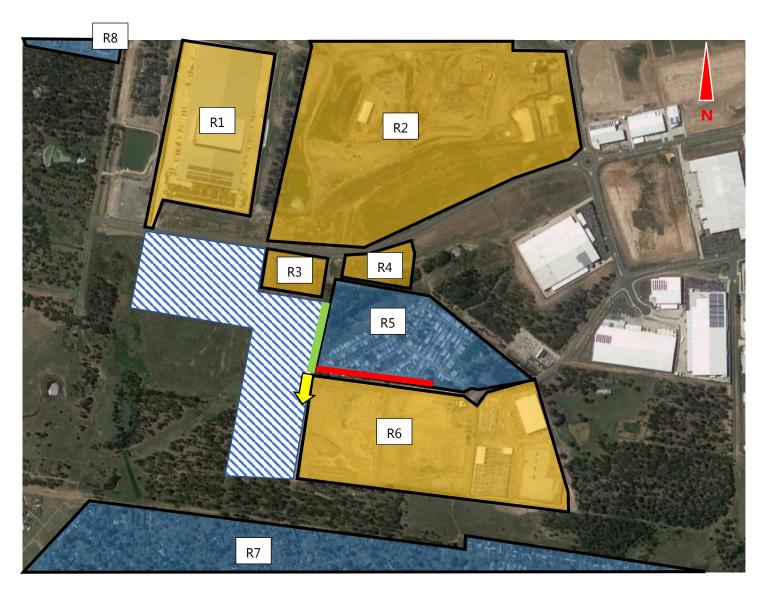
Residential receiver

Project site

Vehicle access onto the site

Existing 2.5 m high noise barrier constructed to the north-east of the site along the southern boundary of the Ingenia Estate (R2)

'A 2.4m high noise barrier is proposed to be located on the eastern boundary between Warehouse 2 and the caravan park in order to further reduce noise levels to this receiver.)'



**Figure 1: Site Map from SIXMaps** 

#### 3 PROPOSED CONSTRUCTION WORKS

This office has been advised as following:

- The proposed works, and corresponding durations are summarised as following:
  - Excavation: 10 weeks
- The proposed construction works do not include demolition or piling, and therefore these items do not form part of this management plan;
- This office has been advised by client this noise and vibration management plan will only include excavation stage (earthworks) for the proposed Stage 3 Facilities Sydney Business Park.
- Vehicle access onto the site will be existing turning head (building 4), adjacent to the Orrcon Facility, on Hollinsworth Road as indicated in figure 1 above;

#### 4 CONSTRUCTION HOURS

Condition B15 and Condition B16, in the draft 'Development Consent, Section 4.38 of the Environmental Planning and Assessment Act 1979' by the Energy, Industry and Compliance, application no. SSD-10477, states the following:

#### NOISE

#### **Hours of Work**

B15. The Applicant must comply with the hours detailed in Table 1, unless otherwise agreed in writing by the Planning Secretary.

Table 1 Hours of Work

Activity	Day	Time
Earthworks and construction	Monday – Friday Saturday	7 am to 6 pm 8 am to 1 pm
Operation	Monday – Sunday	24 hours

- B16. Works outside of the hours identified in condition B15 may be undertaken in the following circumstances:
  - (a) works that are inaudible at the nearest sensitive receivers;
  - (b) works agreed to in writing by the Planning Secretary;
  - for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or
  - (d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.

# 4.1 PROPOSED CONSTRUCTION HOURS

The proposed working hours (construction) are:

- 7:00am -6:00pm, Monday to Friday
- 8:00am -1:00pm, Saturday

# 5 BACKGROUND NOISE LEVELS

Existing environmental noise survey (see figure 1) was based on a long-term unattended monitoring summarized in the report of 'STAGE 3 FACILITIES - SYDNEY BUSINESS PARK, (MARSDEN PARK), SSD NOISE & VIBRATION IMPACT ASSESSMENT', report No. 20232, VERSION B, provided by Wilkinson Murray Pty Limited, dated July 2020.

#### **5.1.1** Measured Background Noise Levels

Table 3-2 in Section 3.1 of 'STAGE 3 FACILITIES - SYDNEY BUSINESS PARK, (MARSDEN PARK), SSD NOISE & VIBRATION IMPACT ASSESSMENT' outlined the rating background levels of unattended noise monitoring (see table 2 below).

The background noise levels established from the unattended noise monitoring are detailed in table below.

**Table 1 – Measured Background Noise Level (Unattended Noise Monitors)** 

Location	Time of Day	Rating Background Level dB(A)L <sub>90</sub>
	Day	35
NL1 – 18 Aubusson St, Marsden Park	Evening	30
	Night	30
	Day	35
NL2 – 15 Roche Gr, Shalvey	Evening	33
	Night	30

Noise monitoring data is presented in Appendix 3 of the report.

#### 6 NOISE LEVEL AND VIBRATION GUIDELINE

#### 6.1 NOISE

Noise associated with excavation activities on the site will be assessed in accordance with the following guidelines:

- 'Development Consent, Section 4.38 of the Environmental Planning and Assessment Act 1979' by the Energy, Industry and Compliance, application no. SSD-10477, dated 28 January 2021; and
- NSW EPA Interim Construction Noise Guideline.

#### 6.1.1 Condition B19 & Condition B20

Conditions B18 and B19 of 'Development Consent, Section 4.38 of the Environmental Planning and Assessment Act 1979' by the Energy, Industry and Compliance, application no. SSD-10477, dated 28 January 2021, states:"

#### Construction Noise Management Plan

- B18. The Applicant must prepare a Construction Noise Management Plan for the development to the satisfaction of the Planning Secretary. The Plan must form part of a CEMP in accordance with condition C2 and must:
  - (a) be prepared by a suitably qualified and experienced noise expert;
  - (b) be approved by the Planning Secretary prior to the commencement of construction of the development;
  - describe procedures for achieving the noise management levels in EPA's Interim Construction Noise Guideline (DECC, 2009) (as may be updated or replaced from time to time);
  - (d) describe the measures to be implemented to manage high noise generating works such as piling;
  - (e) include strategies that have been developed with the community for managing high noise generating works;
  - (f) describe the community consultation undertaken to develop the strategies in condition B18(e); and
  - (g) include a complaints management system that would be implemented for the duration of the development.

#### B19. The Applicant must:

- (a) not commence construction of any relevant stage of the development until the Construction Noise Management Plan required by condition B18 is approved by the Planning Secretary; and
- (b) implement the most recent version of the Construction Noise Management Plan approved by the Planning Secretary for the duration of construction.

## **6.1.2 EPA Interim Construction Noise Guidelines**

The "quantitative" assessment procedure, as outlined in the Interim Construction Noise Guideline (ICNG) will be used. The quantitative assessment method requires:

- Determination of noise and vibration management levels (based on ambient noise levels and receiver type)
- Prediction of operational noise and vibration levels at nearby development
- Recommendation of control strategies in the event that management levels are exceeded.

EPA guidelines adopt differing strategies for noise control depending on the predicted noise level at the nearest residences:

• "Noise affected level". (NML) Where construction noise is predicted to exceed the "noise effected" level at a nearby residence, the proponent should take reasonable/feasible work practices to ensure compliance with the "noise effected level". For residential properties, the "noise effected" level occurs when construction noise exceeds ambient levels by more than 10dB(A) L<sub>eq(15min)</sub> within Recommended standard hours (Monday to Friday, 7 am to 6 pm; Saturday 8 am to 1 pm; No work on Sundays or public holidays). The "noise effected" level occurs when construction noise exceeds ambient levels by more than 5dB(A)L<sub>eq(15min)</sub> within "outside recommended standard hours",

• "Highly noise affected level" (HNML). Where noise emissions are such that nearby properties are "highly noise effected", noise controls such as respite periods should be considered. For residential properties, the "highly noise effected" level occurs when construction noise exceeds 75dB(A)L<sub>eq(15min)</sub> at nearby residences.

In addition to the above goals for residential receivers, section 4.1.3 Commercial and industrial premises of the ICNG states the following:

"Due to the broad range of sensitivities that commercial or industrial land can have to noise from construction, the process of defining management levels is separated into three categories. The external noise levels should be assessed at the most-affected occupied point of the premises: industrial premises: external  $L_{Aeq\ (15\ min)}$  75 dB(A)"

The project specific management levels determined using the ICNG are summarised in the following table.

**Table 2 - Summarised Noise Management Levels** 

Location	Day	Time	Noise Management Level dB(A)L <sub>eq, 15min</sub>	Highly Affected Management Level dB(A)L <sub>eq, 15min</sub>	
Residential Receivers	Monday to Friday	7am-6pm	45	75	
R5, R7, R8	Saturday	8am-1pm	45	,3	
Industrial Premises R1, R2, R3, R4, R6	When in use	When in use	75 externally	N/A	

#### 6.2 VIBRATION

Vibration caused by construction at any residence or structure outside the subject site must be limited to the following:

- For human exposure to vibration, the acceptable vibration values set out in the Environmental Noise
   Management Assessing Vibration: a technical guideline (DEC, 2006); and
- For structural damage vibration, German Standard 'DIN 4150-3 Structural Vibration: Effects of Vibration on Structures'.

# 6.2.1 Assessing Amenity

The NSW EPA document "Assessing Vibration: A Technical Guideline" provides procedures for assessing tactile vibration and regenerated noise within potentially affected buildings and is used in the assessment of vibration impact on amenity. Relevant vibration levels are presented below.

Table 3 - EPA Recommended Vibration Levels

		RMS acceler	ration (m/s²)	RMS velocity (mm/s)		Peak velocity (mm/s)	
Place	Time	Preferred	Maximum	Preferred	Maximum	Preferred	Maximum
Continuous Vibration							
Residences		0.01	0.02	0.2	0.4	0.28	0.56
Offices	Daytime	0.02	0.04	0.4	0.8	0.56	1.1
Workshops		0.04	0.08	0.8	1.6	1.1	2.2
Impulsive Vibration							
Residences		0.3	0.6	6.0	12.0	8.6	17.0
Offices	Daytime	0.64	1.28	13.0	26.0	18.0	36.0
Workshops		0.64	1.28	13.0	26.0	18.0	36.0

#### **6.2.2** Structure Borne Vibrations (Building Damage Criteria)

German Standard DIN 4150-3 (1999-02) provides vibration velocity guideline levels for use in evaluating the effects of vibration on structures. The criteria presented in DIN 4150-3 (1999-02) are presented in Table 4.

It is noted that the peak velocity is the value of the maximum of any of the three orthogonal component particle velocities as measured at the foundation, and the maximum levels measured in the x- and y-horizontal directions in the plane of the floor of the uppermost storey.

Table 4 – DIN 4150-3 (1999-02) Safe Limits for Building Vibration

			PEAK PARTICLE VELOCITY (mms <sup>-1</sup> )				
TYPE OF STRUCTURE		At Foundation at a Frequency of			Plane of Floor of Uppermost Storey		
		< 10Hz	10Hz to 50Hz	50Hz to 100Hz	All Frequencies		
1	Buildings used in commercial purposes, industrial buildings and buildings of similar design		20 to 40	40 to 50	40		
2	Dwellings and buildings of similar design and/or use	5	5 to 15	15 to 20	15		
3	Structures that because of their particular sensitivity to vibration, do not correspond to those listed in Lines 1 or 2 and have intrinsic value (e.g. buildings that are under a preservation order)	3	3 to 8	8 to 10	8		

The industrial premises would be considered a Type 1 structure, whilst residences would be considered a Type 2 structure.

#### 7 NOISE ASSESSMENT

#### 7.1 NOISE SOURCE DATA

The excavation/construction period has been divided into a number of work phases, along with the main noise producing equipment and activities likely to occur in each phase. Typical noise emission levels from equipment associated with the louder activities are provided in the following table.

**Table 5 - Sound Power Levels of the Proposed Equipment** 

CONSTRUCTION ACTIVITY	EQUIPMENT /PROCESS	SOUND POWER LEVEL - dB(A)
	Excavators (bucket attachment)	105
	Bulldozer	110
	Shredder	113
Excavation (earthworks)	Grader	110
	Scraper	116
	Truck (>20 tonne)	110

The noise levels presented in the above table are derived from the following sources, namely:

- Table A1 of Australian Standard 2436-2010
- Data held by this office from other similar studies.
- On-site measurements

#### 7.2 NOISE IMPACT ASSESMENT METHODOLOGY

The predicted noise levels during excavation and construction will depend on:

- The activity undertaken.
- The distance between the work site and the receiver. For many of the work areas, the distance between the noise source and the receiver will vary depending on which end of the site the work is undertaken. For this reason, the predicted noise levels will be presented as a range.

Predicted noise levels are presented below. Predictions take into account the following:

- Noise reduction as a result of distance.
- Depending on the management level adopted, noise emission is predicted to either external areas (property boundaries/building facades/most affected area) or internal areas. Where noise levels are predicted to internal areas, the NSW EPA Interim Construction Noise Guideline suggests that a reduction from external noise levels to internal spaces of 10dB(A) is a conservative estimate.

#### 7.3 PREDICTED NOISE LEVELS TO RECEIVERS

Noise emissions are assessed with reference to the relevant criteria in Section 6.1. Please see tables below for predicted noise levels for each receiver

# 7.3.1 Prediction to receiver 1: existing industrial receiver to the north

Predicted noise levels to the existing industrial receivers, located to the north of the site are as follows:

Table 6 - Predicted Noise Level to R1

Stage	Activity	Predicted Level — dB(A) $L_{eq(15min)}$ (External Areas)	Comment
	Excavator bucket attachment	39-55	
Excavation (earthworks)	Bulldozer	44-60	
	Shredder	47-63	Noise level will generally meet noise management level of
	Grader	44-60	75dB(A)
	Scraper	50-66	
	Truck (>20 tonne)	44-60	

The predictions indicate that all equipment will generally meet noise management level of 75dB(A).

# 7.3.2 Prediction to receiver 2: industrial receiver (currently under construction) to the north-east

Predicted noise levels to the industrial receivers, located to the north-east of the site are as follows:

**Table 7 – Predicted Noise Level to R2** 

Stage	Activity	Predicted Level — dB(A) L <sub>eq(15min)</sub> (External Areas)	Comment
Excavation (earthworks)	Excavator bucket attachment	39-63	
	Bulldozer	44-68	
	Shredder	47-71	Noise level will generally meet noise management level of
	Grader	44-68	75dB(A)
	Scraper	50-74	
	Truck (>20 tonne)	44-68	

The predictions indicate that all equipment will generally meet noise management level of 75dB(A).

# 7.3.3 Prediction to receiver 3: Existing industrial receiver adjoining the north-east boundary of the site

Predicted noise levels to the existing industrial receiver, adjoining the north-east boundary of the site are as follows:

Table 8 - Predicted Noise Level to R3

Stage	Activity	Predicted Level - dB(A)  L <sub>eq(15min)</sub> (External Areas)	Comment
Excavation (earthworks)	Excavator bucket attachment	43-73	Generally, noise level will meet noise management level of 75dB(A)
	Bulldozer	48-78	
	Shredder	51-81	Noise level will exceed noise management level of 75dB(A) when equipment is operating close to the receiver. Refer to Section 9.1 for Recommendations
	Grader	48-78	
	Scraper	54-84	
	Truck (>20 tonne)	48-78	

The predictions indicate there will be exceedance of noise management level, when the most of equipment (only except excavator bucket attachment) is operating close to the north-east boundary. When operating away from the boundary noise levels will not exceed the noise management level. Given the relatively short period of excavation, that the exceedances of the highly affected management level will only occur when operating close to the boundary, the equipment will move around the site which makes localised barriers impractical, it is not reasonable to mitigate noise levels other than to manage impacts as recommended below (selecting quietest feasible plant, notification, etc).

#### 7.3.4 Prediction to receiver 4: industrial receiver to the north-east

Predicted noise levels of existing industrial receiver located to the north-east of the site are as follows:

Table 9 – Predicted Noise Level to R4

Stage	Activity	Predicted Level — dB(A) $L_{eq(15min)}$ (External Areas)	Comment
Excavation (earthworks)	Excavator bucket attachment	36-53	
	Bulldozer	41-58	Generally, noise level will meet noise management level of 75dB(A)
	Shredder	44-61	
	Grader	41-58	
	Scraper	47-64	
	Truck (>20 tonne)	41-58	

The predictions indicate that all equipment will generally meet noise management level of 75dB(A). Also, it is noted that the existing building shell of Tigerpak Packaging (Receiver 3) will provide significant noise shielding to the receivers 4.

#### 7.3.5 Prediction to receiver 5: Existing residential receiver adjoining the east boundary of the site

Predicted noise levels of existing residential receivers adjoining the east boundary of the site are as follows:

Table 10 – Predicted Noise Level to R5

Stage	Activity	Predicted Level - dB(A) L <sub>eq(15min)</sub> (External Areas)	Comment
	Excavator bucket attachment	40-72	Noise level will exceed noise management level of 45dB(A), but generally meet highly affected management level of 75dB(A)
Excavation	Bulldozer	45-77	
(earthworks)	Shredder	48-80	Noise level will exceed highly affected management level of
	Grader	45-77	75dB(A) when equipment is operating close to the
	Scraper	51-83	receiver. Refer to Section 9.1 for Recommendations
	Truck (>20 tonne)	45-77	

The predictions indicate there will be exceedance of noise management level of 45dB(A), and highly affected management level of 75dB(A), when the most of equipment is operating close to the east boundary. When operating away from the boundary, noise levels will be generally under the highly affected management level of 75dB(A).

It is noted that page 14 of the report of 'STAGE 3 FACILITIES - SYDNEY BUSINESS PARK, (MARSDEN PARK), SSD NOISE & VIBRATION IMPACT ASSESSMENT', report No. 20232, VERSION B, provided by Wilkinson Murray Pty Limited, dated July 2020, states that:

"A 2.4m high noise barrier is proposed to be located on the eastern boundary between Warehouse 2 and the caravan park in order to further reduce noise levels to this receiver. Previous discussions between SBP and this receiver for other approved developments have resulted in a commitment by SBP to further reduce impacts to this receiver by the installation of noise barriers."

Therefore, it is recommended that the proposed 2.4m high noise barrier shall be erected on the eastern boundary between Warehouse 2 and the caravan park as soon as the excavation work commenced (see Figure 1)

The noise impact from the site to the receiver 5 will be minimised by giving:

- The relatively short period of excavation, that the exceedances of the highly affected management level of 75dB(A) will only occur when operating close to the boundary;
- The proposed 2.4m high noise barrier are erected as soon as the excavation work commenced;
- Manage impacts as recommended below are adopted (selecting quietest feasible plant, notification, etc.);

## 7.3.6 Prediction to receiver 6: Existing industrial receivers, adjoining the east boundary of the site

Predicted noise levels of existing industrial receivers, adjoining the east boundary of the site are as follows:

Table 11 – Predicted Noise Level to R6

Stage	Activity	Predicted Level - dB(A)  L <sub>eq(15min)</sub> (External Areas)	Comment
Excavation (earthworks)	Excavator bucket attachment	45-73	Generally, noise level will meet noise management level of 75dB(A)
	Bulldozer	50-78	
	Shredder	53-81	Noise level will exceed noise management level of 75dB(A) when equipment is operating close to the receiver. Refer to Section 9.1 for Recommendations
	Grader	50-78	
	Scraper	56-84	
	Truck (>20 tonne)	50-78	

The predictions indicate there will be exceedance of noise management level, when the most of equipment (only except excavator bucket attachment) is operating close to the east boundary. When operating away from the boundary noise levels will not exceed the noise management level. Given the relatively short period of excavation, that the exceedances of the highly affected management level will only occur when operating close to the boundary, the equipment will move around the site which makes localised barriers impractical, it is not reasonable to mitigate noise levels other than to manage impacts as recommended below (selecting quietest feasible plant, notification, etc).

# 7.3.7 Prediction to receiver 7: Existing residential receivers located to the south of the site

Predicted noise levels of existing residential receivers to the south of the site are as follows:

Table 12 – Predicted Noise Level to R7

Stage	Activity	Predicted Level – dB(A) L <sub>eq(15min)</sub> (External Areas)	Comment
Excavation (earthworks)	Excavator bucket attachment	35-50	
	Bulldozer	40-55	Noise level will exceed noise management level of 45dB(A), but generally meet highly affected management level of 75dB(A)
	Shredder	43-58	
	Grader	40-55	
	Scraper	46-61	7545(1)
	Truck (>20 tonne)	40-55	

The predictions indicate there will be exceedance of noise management level 45dB(A), when equipment is operating close to the south boundary. However, noise level will generally meet highly affected management level of 75dB(A). Given the relatively short period of excavation, that the exceedances of noise management level of 45dB(A) will only occur when operating close to the south boundary, the equipment will move around the site which makes localised barriers impractical, it is not reasonable to mitigate noise levels other than to manage impacts as recommended below (selecting quietest feasible plant, notification, etc).

# 7.3.8 Prediction to receiver 8: Existing residential receivers located to the north-west of the site

Predicted noise levels of existing residential receivers to the north-west of the site are as follows:

Table 13 - Predicted Noise Level to R8

Stage	Activity	Predicted Level — dB(A) L <sub>eq(15min)</sub> (External Areas)	Comment
	Excavator bucket attachment	30-34	
Excavation (earthworks)	Bulldozer	35-39	Generally, noise level will meet noise management level of 45dB(A)
	Shredder	38-42	
	Grader	35-39	
	Scraper	41-45	
	Truck (>20 tonne)	35-39	

The predictions indicate that all equipment will generally meet noise management level of 45dB(A). Also, it is noted that the existing building shell of Ikea DC Sydney (Receiver 1) will provide significant noise shielding to the receiver 8.

#### 8 ASSESSMENT OF VIBRATION

#### 8.1 VIBRATION PRODUCING ACTIVITIES

Proposed activities that have the potential to produce significant ground vibration is Excavator working.

#### 8.2 SAFEGUARDS TO PROTECT SENSITIVE STRUCTURES

It is impractical to predict the vibrations induced by the excavation/construction operations on site at potentially affected receivers. This is because vibration level is principally proportional to the energy impact which is unknown nature of terrain in the area (type if soil), drop weight, height etc.

#### 8.3 VIBRATION MONITORING

The proposed vibration monitoring equipment is three Balastronics type monitors with externally mounted geophones installed within the location below, Detailed location of these monitor is presented in Appendix 2:

Location 1- west boundary with geophone against the wall (barrier) to 140 Hollinsworth road, Marsden Park.

The proposed vibration monitoring equipment is to consist of a Texcel type monitor with externally mounted triaxial geophone. The monitors are proposed to be fitted with GSM modem and remotely signal up to five mobile phones indicating any exceedance of the prescribed vibration criteria to enable immediate notification to be sent to the contractor when vibration thresholds are approached. Indicatively, an alarm level of 5mm/s PPV can be used, to be confirmed following structural engineer advice. In addition, it is impractical to predict the vibrations induced by the excavation operations on site at potentially affected receivers. However, the total vibration emissions are to be limited with real-time alarm notification given to the plant operators to ensure that the vibration limits are not exceeded. Based on feedback from the real-time vibration monitoring system, the plant operators will be to ensure that the vibration limits are not exceeded. Based on feedback from the real-time vibration monitoring system, the plant operators will be able to modify their operations to ensure the vibration levels are kept within the acceptable limits.

In the event that complaints are made from neighbouring properties regarding vibration impacts from the subject site, vibration monitors will be installed at the property boundaries of the neighbouring properties nearest to the subject site to monitor vibration levels.

#### 8.3.1 Download of vibration logger

Downloading of the vibration logger will be conducted on a regular basis. In the event exceedance of vibration criteria or alarms occurs, downloading of logger will be conducted more frequently. Results obtained from the vibration monitor will be presented in a graph formant and will be forwarded to client for review. It is proposed that reports are provided fortnightly with any exceedance in the vibration criteria reported as detailed in this report.

# 8.3.2 Presentation of Vibration Logger Results

A fortnightly report will be submitted to client via email summarising the vibration events. The vibration exceedance of limit is recorded the report shall be submitted within 24 hours. Complete results of the continuous vibration logging will be presented in fortnight reports including graphs of collected data.

#### 8.3.3 Persons to receive alarms

The following personnel will receive GSM alarms:

Acoustic consultant/advisor (1 person)

- Excavation site foreman
- Main builder foreman (where applicable)
- Client nominated two representatives

# 9 AMELIORATIVE MEASURES

# 9.1 SITE SPECIFIC RECOMMENDATIONS

Site specific recommendations as follows:

#### 9.1.1 Excavation

#### Excavator, bulldozer, scrapper, grader, shredder:

- o (engine) Fit more efficient silencer or exhaust silencer.
- o (engine) Enclosure panels, when fitted, should be kept closed.
- Residents at south of the site (R7), and the residential receivers to the east (R5), to be notified of anticipated period of excavation.
- Where practical install barriers as described in the plan adjacent to the work point to screen the residential receivers to the east.

#### Truck Noise:

- Truck movements should not commence prior to 7am. Trucks are not to idle with their engines running outside the site prior to 7am.
- Trucks must turn off their engines during idling to reduce impacts on nearby receivers (unless truck ignition needs to remain on during concrete pumping).

#### • Other vehicles:

- Vehicles to use a non-tonal reversing beacon (subject to OH&S requirements) to minimise potential disturbance of neighbours.
- In the event of complaint, the procedures in section 11 are to be adopted.

#### 9.2 ACTIVITIES OUTSIDE PERMITTED HOURS OF CONSTRUCTION

Construction can occur outside of the permitted hours for a number of reasons including if noise is inaudible at the surrounding sensitive receivers. In this context, sensitive receivers would be the residential receivers to the south of the site and industrial receivers to the east of the site.

Activities that could be undertaken include maintenance of equipment using hand tools, internal works such as painting and other quiet works. Other works may be able to be undertaken but should be specifically assessed by an acoustic specialist before being undertaken.

#### 9.3 GENERAL RECOMMENDATIONS

Other noise management practices which may be adopted are discussed below. In addition, notification, reporting and complaints handling procedures should be adopted as recommended in section 11 of this report.

#### 9.3.1 Acoustic Barrier (if required)

Barriers or screens can be an effective means of reducing noise. Barriers can be located either at the source or receiver.

The placement of barriers at the source is generally only effective for static plant (cranes). Equipment which is on the move or working in rough or undulating terrain cannot be effectively attenuated by placing barriers at the source.

Barriers can also be placed between the source and the receiver.

The degree of noise reduction provided by barriers is dependent on the amount by which line of sight can be blocked by the barrier. If the receiver is totally shielded from the noise source reductions of up to 15 dB(A) can be affected. Where only partial obstruction of line of sight occurs, noise reductions of 5 to 8 dB(A) may be achieved. Where no line of sight is obstructed by the barrier, generally no noise reduction will occur.

As barriers are used to provide shielding and do not act as an enclosure, the material they are constructed from should have a noise reduction performance which is approximately 10dB(A) greater than the maximum reduction provided by the barrier. In this case the use of a material such as 10 or 15mm plywood would be acceptable for the barriers.

#### 9.3.2 Silencing Devices

Where construction process or appliances are noisy, the use of silencing devices may be possible. These may take the form of engine shrouding, or special industrial silencers fitted to exhausts.

#### 9.3.3 Material Handling

The installation of rubber matting over material handling areas can reduce the sound of impacts due to material being dropped by up to 20dB(A).

#### 9.3.4 Treatment of Specific Equipment

In certain cases, it may be possible to specially treat a piece of equipment to reduce the sound levels emitted. These may take the form of engine shrouding, or special industrial silencers fitted to exhausts.

#### 9.3.5 Establishment of Site Practices

This involves the formulation of work practices to reduce noise generation. This includes locating fixed plant items as far as possible from residents as well as rotating plant and equipment to provide respite to receivers.

Construction vehicles accessing the site should not queue in residential streets and should only use the designated construction vehicle routes. Loading of these vehicles should occur as far as possible from any sensitive receiver.

#### 9.3.6 Strategic Positioning of Processes On-Site

Where practicable, particular processes of activities can be located in particular positions on site to minimise noise to surrounding sensitive receivers

For example, stationary plant may be positioned where direct line of sight shielding can be achieved using natural barriers or temporary screens or may maximise the distance to the nearest sensitive receiver.

#### 9.3.7 Management Training

All site managers should be made aware of noise and vibration limits, applicable control measures and methods. They should ensure that all agreed noise and vibration measures are carried out by employees and subcontractors.

#### 9.3.8 Combination of Methods

In some cases, it may be necessary that two or more control measures be implemented to minimise noise.

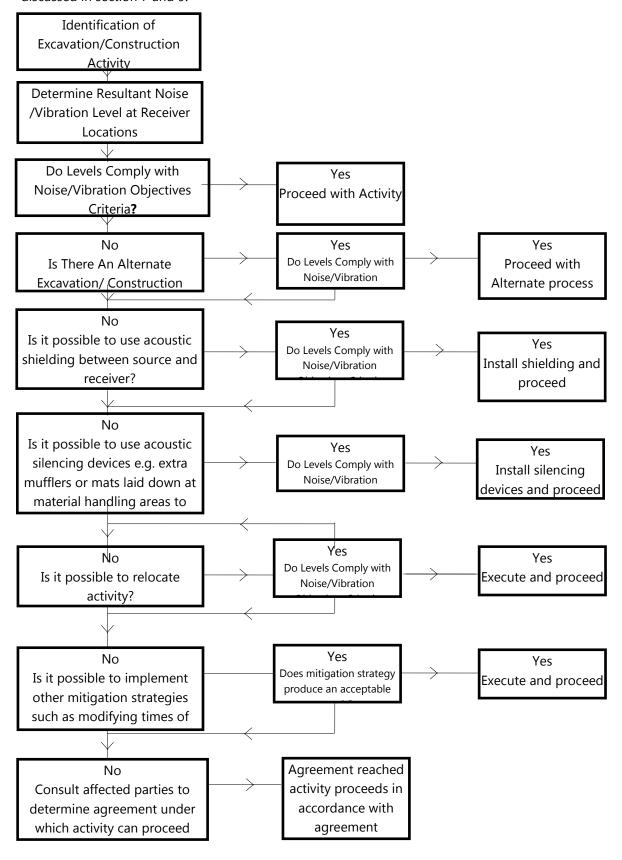
#### 9.3.9 Maintenance of Plant, Equipment and Machinery

Construction Profile will ensure all plant, equipment and machinery are regularly serviced and maintained at optimum operating conditions, to ensure excessive noise emissions are not generated from faulty, overused or unmaintained machinery.

#### 10 ASSESSMENT METHODOLOGY AND MITIGATION METHODS

The flow chart that follows illustrates the process to be followed to minimise the impact associated with these activities.

Noise sources with the potential to exceed the management level set out in section 6 have been identified and discussed in section 7 and 9.



#### 11 COMMUNITY INTERACTION AND COMPLIANTS HANDLING

Should ongoing complaints of excessive noise, vibration or dust occur, immediate measures shall be undertaken to investigate the complaint, the cause of the exceedances and identify the required changes to work practices. In the case of exceedances of the vibration and dust limits, all work potentially producing vibration or dust shall cease until the exceedance is investigated.

If a noise complaint is received the complaint should be recorded on a Noise Complaint Form. The complaint form should list:

- The name and address of the complainant (if provided);
- The time and date the complaint was received;
- The nature of the complaint and the time and date the noise was heard;
- The name of the employee who received the complaint;
- Actions taken to investigate the complaint, and a summary of the results of the investigation;
- Required remedial action, if required;
- Validation of the remedial action; and
- If necessary, setup vibration monitoring at the location representing the nearest affected vibration receiver, with alarm device which can inform the project manager on site if the vibration exceedance happened.
- Summary of feedback to the complainant.

A permanent register of complaints should be held.

#### 11.1 COMMUNITY CONSULTATION

#### 11.1.1 Requirement

Condition B18 (f) and Condition B18 (g), in the 'Development Consent, Section 4.38 of the Environmental Planning and Assessment Act 1979' by the Energy, Industry and Compliance, application no. SSD-10477, dated 28 January 2021. states the following:"

- (f) describe the community consultation undertaken to develop the strategies in condition B18(e); and
- (g) include a complaints management system that would be implemented for the duration of the development.

#### 11.1.2 Community Consultation Undertaken

The community consultation undertaken and the processes to be implemented are provided in Appendix 1 attached. The outcomes of the consultation undertaken to date have been incorporated into the management plan, and the outcomes of ongoing consultation during the construction period will be incorporated as necessary in the management of impacts.

#### 12 CONTINGENCY PLANS

Where non-compliances or noise complaints are raised the following methodology will be implemented.

- 1. Determine the offending plant/equipment/process
- 2. Locate the plant/equipment/process further away from the affected receiver(s) if possible.
- 3. Implement additional acoustic treatment in the form of localised barriers, silencers etc where practical.
- 4. Selecting alternative equipment/processes where practical
- 5. If necessary, setup noise/vibration and dust monitoring devices at locations representing the nearest noise/vibration and dust affected receivers and provide data for each complain time period. Analysis is required to determine suitable mitigation measures.

Complaints associated with noise /vibration and dust generated by site activities shall be recorded on a Complaint Form. The person(s) responsible for complaint handling and contact details for receiving of complaints shall be established on site prior to construction works commencing. A sign shall be displayed at the site indicating the Site Manager to the general public and their contact telephone number.

#### 13 CONCLUSION

This report presents an assessment of noise and vibration impacts associated with the excavation (earthworks) activities for the proposed Stage 3 Facilities - Sydney Business Park, at Marsden Park.

An assessment of potential noise and vibration impacts resulting from the proposed excavation (earthworks) activities on site is summarised in Sections 7 and 8 of the report. The assessment was undertaken using NSW EPA Interim Construction Noise Guideline and indicates there is generally a low to moderate risk of adverse impacts due to the nature of the works and the significant distance separation to sensitive receivers. The results of the assessment have been used to develop ameliorative treatments to further reduce these impacts, which are detailed in Section 9 and Section 10.

Provide that the recommendations, management controls and procedures outlined in this report are implemented, noise and vibration impact from the proposed works will be minimised

We trust this information is satisfactory. Please contact us should you have any further queries.

Yours faithfully,

Acoustic Logic Pty Ltd

**Hugh Cao** 

#### **APPENDIX 1: COMMUNITY CONSULTATION**

# SYDNEY BUSINESS PARK STAGE 3 BULK EARTHWORKS

COMMUNITY CONSULTATION AND ENGAGEMENT PLAN

27/01/2021



# **Contents**

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# Revision

Rev Date	Revision Description	PM's Initials (acceptance of changes)
27/01/2020	Original Issues	OW

Rev Date	Revision Description	PM's Initials (acceptance of changes)

# Introduction

This Community Consultation and Engagement Plan forms part to the CEMP for SSD 20-10477.

#### Purpose of the Plan

Marsden Park Developments (MPD) recognises the importance of trust in relationship building with stakeholders involved with the project. Consequently, being accountable is paramount and we seek to be transparent with our communications and documentation.

Further, in line with our company commitment to continual improvement, we constantly aim for a greater level of engagement and interaction with stakeholders, particularly when our project activities may impact on the communities in which we operate.

The purpose of this plan is to outline processes for:

- Achieving our Objectives and Targets;
- Consultation Strategies;
- Identification of Stakeholders;
- Responsibilities for Implementing the Plan; and
- Stakeholder Grievances and Concerns.

# MPD Objectives and Targets

MPD's overall objective is to promote an open communications environment that will minimise disruptions and issues for both the project team and the community.

To support this, and in line with commitments made in MPD's Environmental Policy, project level objectives and targets include:

- Community complaints are to be actioned within 24hours;
- No repeat complaints for the same issue.

# Description of the Project

#### General

Cut-to-fill bulk earthworks within Stage 3 Bulk Earthworks.

#### **Hours of Operation**

The Development Consent hours of operation for the construction project are:

Monday to Friday 7:00am to 6:00pm and Saturday 8:00am to 1:00pm

#### **Proposed Timeframes**

The table below provides an overview of the construction activities and the timeframe for the works.

Construction Activities –	Construction Activities –					
Activity	Methodology	Timeframe				
Site set up including environmental controls	Perimeter fencing / sediment controls / site hoardings					
Bulk earthworks & spoil removal	Site clearance/strip top soil/filling/proof roll & trim					
In ground services	Civil (stormwater) / Electrical / Mechanical / Hydraulic					
Footings, foundations & anchors	Footings to Warehouse (including offices)					
BDR Building Delivery and Installation	Structural Steel / Precast / Roof & Wall Cladding / High level services					
Fit-out of final finishes & furniture	Fit-out to amenities and offices					
External works incl. pavements, landscaping	External hardstand, carpark and landscaping					

# Site Management Contact Details

Key contact details are provided below:

Position	Name	Phone (W)	Phone (M)			
Stage 3 – Bulk Earthworks						
Development Director	Owen Walsh		0413 442 096			
Infrastructure Director	Michael Gray		0425 343 672			
Site Manager	Max Sarkis		0407 327 745			

# Balancing Community Expectation and MPD Obligations

Balanced community engagement involves both a commitment from MPD and an expectation from the community, as summarised below.

	Inform	Consult	Involve	Collaborate
ommunity kpectation	To get balanced and objective information about aspects of the project that impact on us	To be asked our opinions and allow us to provide feedback to the company on the matters that concern us	To be involved in the decision making process and the exploration of alternatives regarding those	To create a partnership with us whereby we have faith that our concerns and ideas are integrated into the decision making process

	Inform	Consult	Involve	Collaborate
			issues that are of concern to us	
IPD bligation	We will keep the community well informed	We will listen and acknowledge community concerns and provide evidence that concerns are considered in decision making	We will work with the community to make sure concerns and issues are reflected in any alternatives developed. Provide feedback to the community on how their inputs has influenced outcomes	We will look to the community for advice and innovation in solving issues and concerns and incorporate their advice into the decision making process to the maximum extent possible.

# Consultation and Strategy/Our Approach to Dialogue

#### General

Community consultation can be involving, meaningful, useful and effective if the following principles are used as a starting point for making consultation work:

- Making it timely: participation should not be so late in the process of an issue that it is tokenistic or merely confirms decisions already made. Give people enough time to express their views.
- Making it inclusive: Participation should be selected in a way that is not open to manipulation, and should include a cross section of the participation.
- Making it community focused: Ask participants not what they personally want but what is appropriate in their role as a citizen.
- Making it interactive: avoid reducing questions to a simplistic response. Allow consideration of the big picture so people can readily become engaged.
- Making it effective: Although decision making can strive for consensus, complete agreement may not be the outcome. Be clear
  on how the decisions will be made so participants understand the impact of their involvement. Allow enough time for
  participants to become familiar with the project issues.
- Making it Matter: it is important that a strong likelihood that any recommendations that emerge from the consultative process will be accepted. If they are not, it is important that a public explanation is provided.

#### Ways to Consult

Different community stakeholder groups need different consultation methods at different stages of the project. Some of the processes that may be used are listed below.

ultation nod	Inform	Consult	Involve	Collaborate
	Fact Sheet / flyers Website Project Open days Briefings 24 hrs. contact points Media Direct personal visits Project inductions	Public submissions Focus groups Public meetings Surveys	Community liaison groups Workshops Submissions Community projects / sponsorship Local suppliers preference policy	Advisory groups Decision making Consensus building

#### **Letter Box Drops and Public Notices**

Letter box drops or public notices will include at least the following:

- Why the works are required;
- When they will occur;
- What mitigation measures are in place to minimise any community or environmental impacts;
- Who will be doing the work and a contact phone number for further information; and
- Emergency Contact number / community complaints line.

#### **Communication Protocols**

The protocols for establishing and continuing community consultation for this project include:

- Communicating clearly;
- Including 3 or 4 main messages, and repeat them in different ways;
- Ensuring information is structured around the same messages i.e. Consistency;
- Ensuring project staff are clear about main messages, so stakeholders receive consistent messages;
- Providing information promptly;
- Establishing timelines and lines of communication: for this project a 2 day response time to deal with community concerns has been determined;
- Making the information accessible to all interested parties; and
- Being open to changes that may result from listening and incorporating innovations or concerns from the community into the project activities and methodologies.

# Identification of Stakeholders for this Project

#### General

Key stakeholders are generally identified as people who are adversely or positively impacted by our operations, those who have an interest in / influence on what we do.

Our project sites are required to identify their key stakeholders and consider their expectations and concerns during design (where achievable) and operational activities.

These projects key stakeholders are many and varied and may include:

- MPD's Employees Client and end users, subcontractors, and suppliers;
- Local and Indigenous communities;
- Customers;
- Surrounding property occupiers or owners;
- Community organisations that represent local and indigenous communities near our projects, particularly in regional NSW;
- Unions who are concerned about upholding workers' rights and interests; and
- Governments local & state;
- The media; and
- Industry associations.

Within these groups, there are stakeholders that may be interested in specific issues or affected by a range of issues.

#### **Community Consultation Planning**

Appendix 1 summarises the Community and Stakeholders Mapping Guide and overall consultation strategy planned for this project.

#### Stakeholders Identified for this Project & Consultation Strategies

For this project, business, residential and other stakeholders that may be specifically impacted by project works and the corresponding consultation strategy have been listed in the table below:

Stakeholders and Consultation Strategies					
Precinct Impacts Consultation Strategy					
Businesses	During Construction: extra traffic (concrete trucks)	A construction update advising of progress of current works and advice of commencement of soft ground works will be issue in advance of works commencing			
		Personal consultation – a visit will be made to update progress on works and inform businesses of upcoming works			
		Community Liaison Group (CLG) – monthly meetings			
		Ongoing communication with the Client, Property managers and business tenants via regular email flyers and project updates.			
		The agreed complaint handling procedures will be implemented			

Stakeholders and Consu							
Precinct	Impacts	Consultation Strategy					
Residents	During Construction: Noise, Traffic, Dust	Prior to works starting, notification and consultation will be undertaken with the identified key sensitive receivers.  Personal consultation will be undertaken with identified sensitive receivers to make them aware of works, and the potential issues such as concrete trucks utilising site on a 10 hour basis Monday to Friday.					
		Personal consultation will be undertaken with the residents potentially impacted by regenerated noise and vibration					
		The agreed complaint handling procedures will be implemented					
Employees & Subcontractors	WHS concerns  Career progression & learning opportunities  For those who live in regional communities where our projects are based – interactions out of work hours, business creation during the life of the project, supporting social infrastructure	Both the Head Office at Atarmon and project sites, employees and contractors are expected to participate in company improvements, via: Safety committees Performance appraisals Direct communications between employees & management Newsletters & alerts Intranet Monthly reporting & corporate reports IT helpdesk					
Local & Indigenous Communities	Disengagement of local & indigenous communities with the project  Non – fulfilment of GC21 Contract obligations contained in Aboriginal Participation Plans  Miss-alignment of MPD's policies and the NSW Government's commitment to creating outcomes (training, employment, enterprise development) for Aboriginal people, as referred to in the Making It Our Business Strategy and procurement in construction policy.  Potential to affirm and respect indigenous and other heritage & cultural	Development of Aboriginal Participation Plans to involve the indigenous community Community consultation groups Newsletters and other targeted communications Monthly reporting & corporate reports Community perception surveys					

Precinct	Impacts	Consultation Strategy
Suppliers	Suppliers and subcontractors not aware of MPDs expectations Impacts of MPD's payment terms and conditions on suppliers and subcontractors	Technology exchanges Identification of risks associated with their activities and implementation of controls Seek to utilise local suppliers and support these suppliers
Community Organisations	Assurance that potential impacts (social, environmental, safety etc.) have been considered during MPD's projects and mitigated  MPD's community interactions and support are mutually beneficial and sustainable	Community consultation and engagement groups Support local sporting and other groups Corporate programs
Unions	Freedom of our employees to choose to join labour unions	Communicate with unions on specific issues, MPD's CBA etc.
Regulators	Government has mechanisms of regulation that cover a range of aspects within MPD including industrial, safety, environment	MPD's activities required to work within legislative frameworks and local and state levels  Meetings with Council, BCA consultant with respect to planning and design issues  Onsite meetings with Local Council, DECC, WorkCover, ABCC to ensure MPD works complying with legislation, minimising impacts to stakeholders, minimising industrial relations conflicts

#### **Indigenous Stakeholders**

MPD recognises and respects the importance of Indigenous peoples' culture, heritage and traditional rights and supports the identification, recording, management and protection of indigenous cultural heritage sites.

Indigenous cultural heritage is broadly defined to include matters that are significant to either Indigenous peoples or under legislation, such as dreaming, ceremonial, sacred and burial sites; archaeological sites where evidence of the past occupation and use by Indigenous peoples can be found; more contemporary historic sites; and traditional knowledge.

We recognise that Indigenous peoples have a vital role to play in identifying and properly managing cultural heritage, especially where it could be affected by our activities.

Where identified by the planning process, projects will undertake early consultations and assessments with Indigenous peoples to ascertain whether our proposed activities are likely to impact cultural heritage values and, in conjunction with Indigenous peoples and relevant authorities, determine how best to plan and undertake those activities to avoid or minimise such impacts.

MPD also actively seeks to utilise traditional knowledge in the development of site-based practices such as environmental management plans (see Appendix M).

#### **Aboriginal Participation Plan**

Aboriginal Participation Plans will be developed for a project in accordance with the Contract requirements or where there is a significant potential to benefit the local community in line with the NSW Government's policies (see Appendix M of the CEMP).

# Responsibility for Implementing the Plan

The Project Manager is responsible for developing and implementing the Community Consultation and Engagement Plan for this project. Where required, specialist consultants will be engaged.

# Stakeholder Grievances and Concerns

Project sites are required to maintain a register of concerns, complaints and relevant external communications.

Concerns and complaints are to be investigated as incidents, using MPD's standard investigation processes (Form 01.1), and outcomes and actions are reported back to relevant stakeholders.

# Is the Plan Effective?

Monitoring public opinion and complaints will identify how successful the project Community Consultation and Engagement Plan is:

- If issues can be resolved by consultation and collaboration, then the program is successful.
- If issues are escalating and resolution is improbable, the program is to working.

A regular review process during the project is also a central requirement of stakeholder identification, to ensure that all appropriate groups and individuals are effectively identified and suitably engaged.

# Resources

http://www.vlgaconsultation.org.au/

http://www.communitysolutions.com.au/index.html

Landcom Booklet Stakeholder Consultation Workbook (available on internet)

# Appendix 1 – Stakeholder Table

Community Stakeho	older Mapping Guide	2						
		Does the stakeholder have / require?		Implementation Requirements				
Stakeholder	Issue / Impact	Information Needs	Expertise / Knowledge	Regulation	Planning Approval	Construction Management Plans e.g. Noise & Vibration	Contract Requirement	Affected / Level of Impact
Residents	Dust, noise	3	1	1	1	2	3	3
Business	Traffic	3	1	1	1	1	3	3
Community Groups	Traffic	2	1	1	1	1	1	1
Indigenous Group	Heritage							
Client	Operations							
EPA	Environment							
WorkSafe	Safety							
Local Council	Building							
Union	IR							

Stakeholder	Level of Impact	Consultation Strategy			
		Inform	Consult	Involve	Collaborate
Residents	3	✓	✓	✓	
Business	3	✓	✓	✓	
Community Groups	1	✓			
Indigenous Group					
Client					
EPA		✓			✓
WorkSafe		✓	✓		
Local Council		✓	✓		
Union		✓			



Rank why a particular group is a stakeholder for this project i.e. is their interest low, medium, high?

1 = low

2 = medium

3 = high

#### Step 2:

✓ Indicate Consultation Strategy employed

Details provided in Section 7.0.

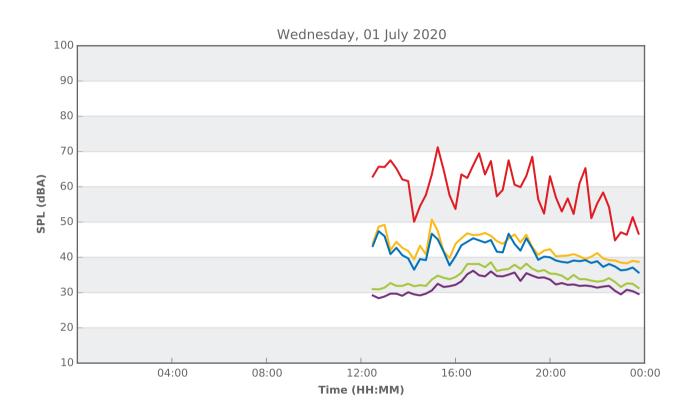
#### **APPENDIX 2: RECOMMENDED LOCATION OF VIBRATION MONITORING**

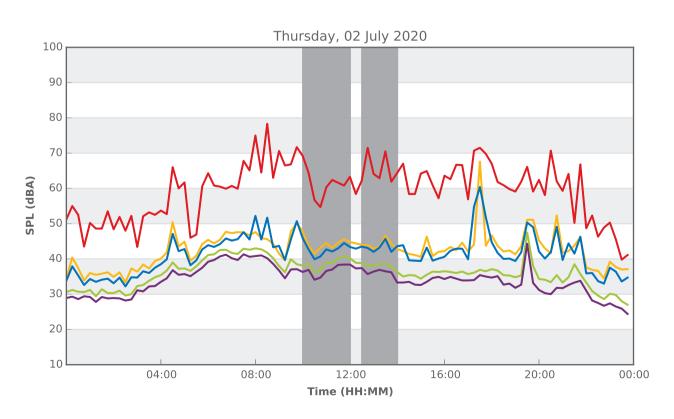


Recommended location of vibration monitoring

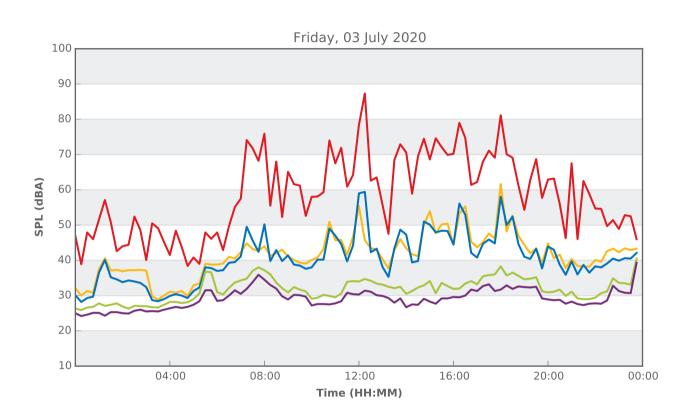
### **APPENDIX 3: NOISE MONITORING DATA**

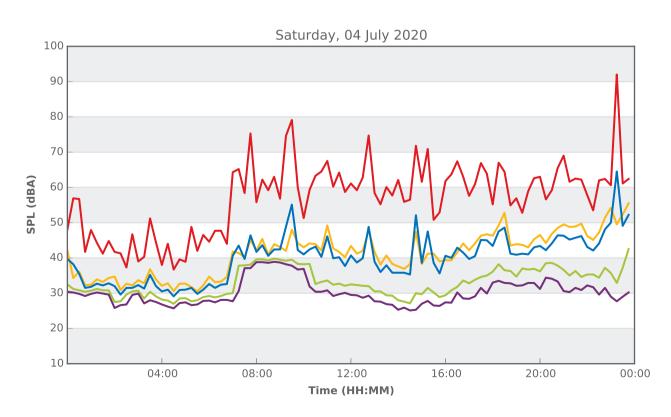




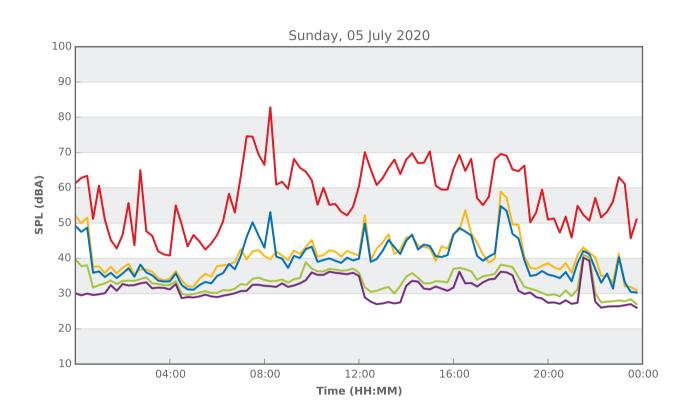


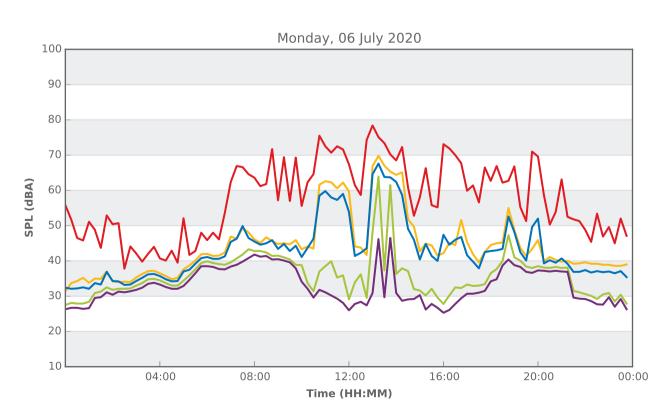




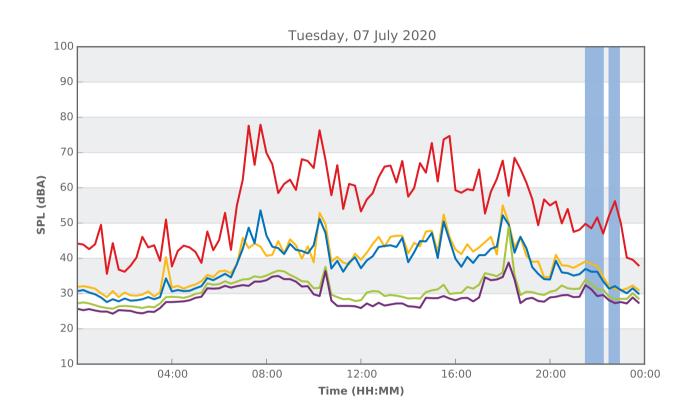


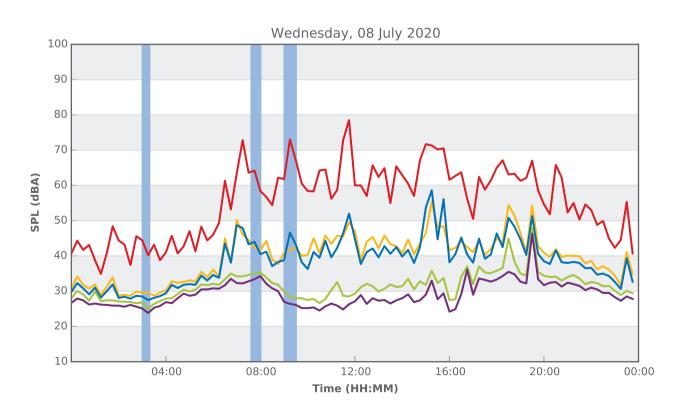




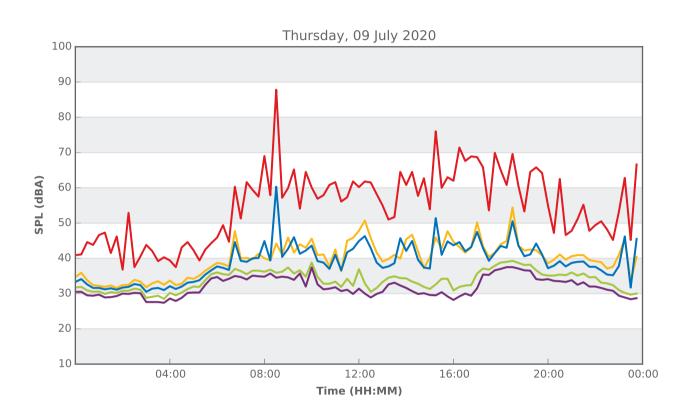


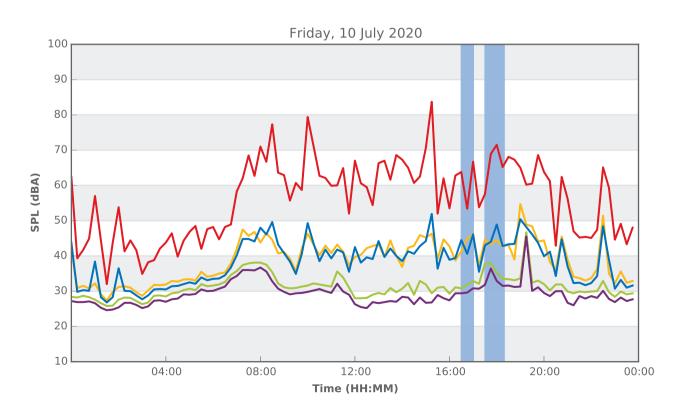




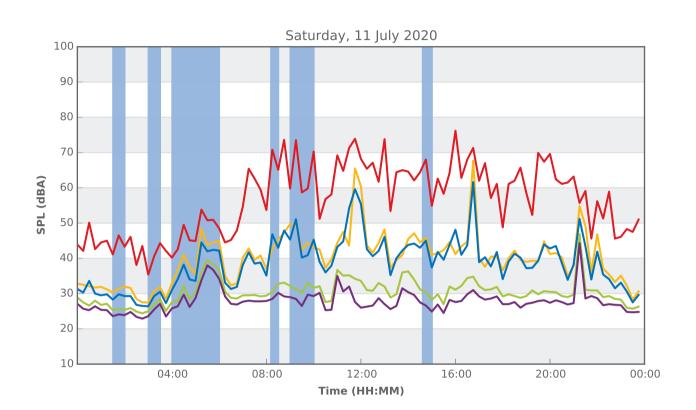


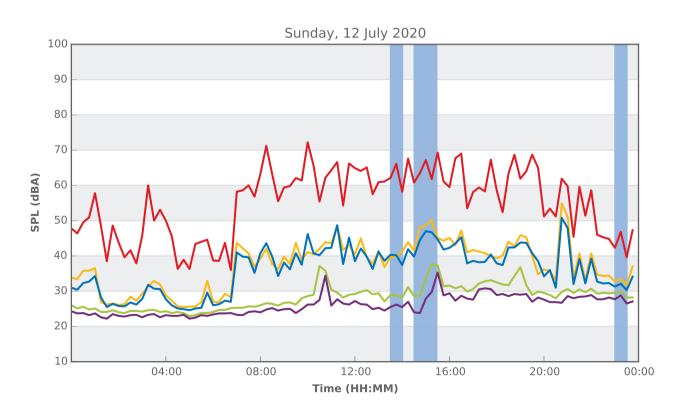




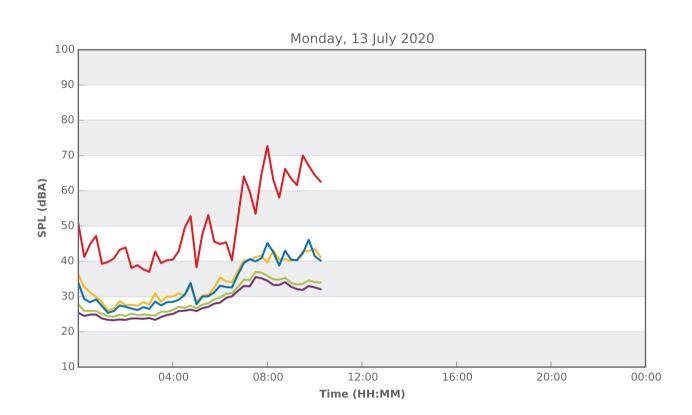




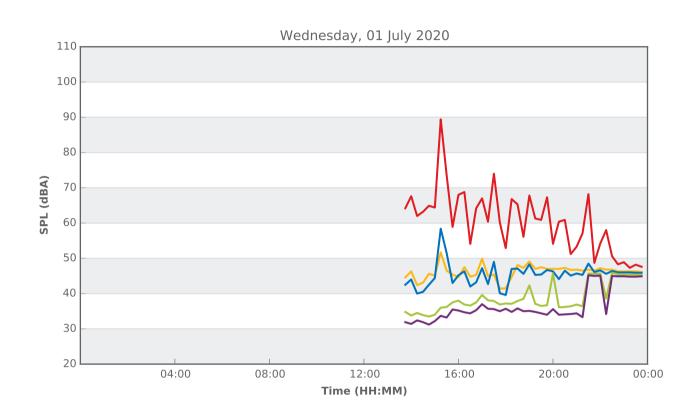


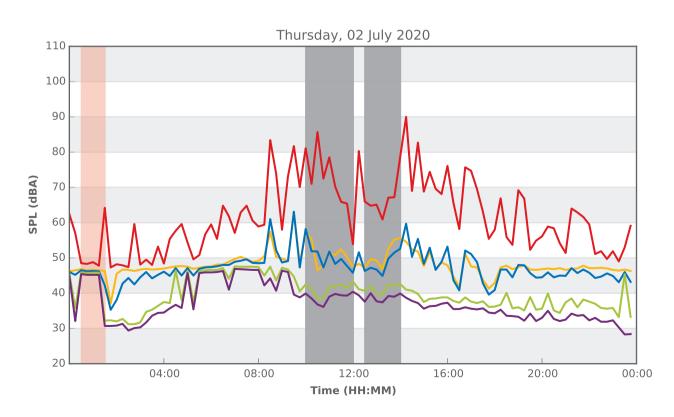




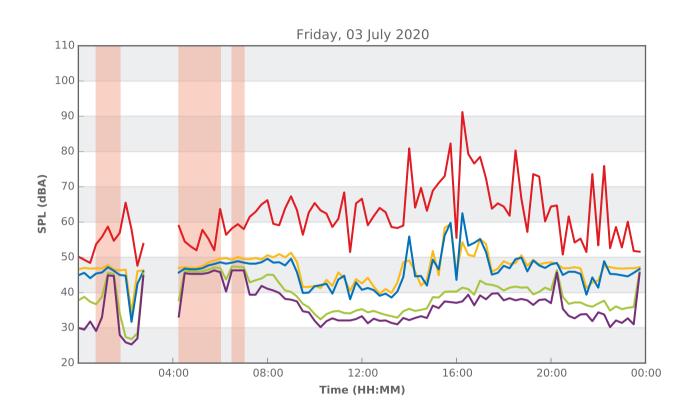


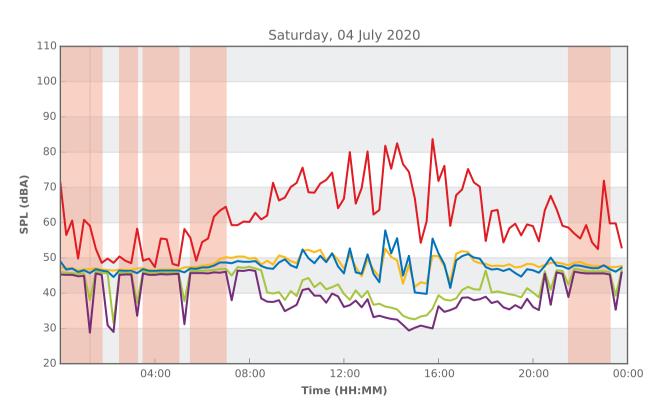




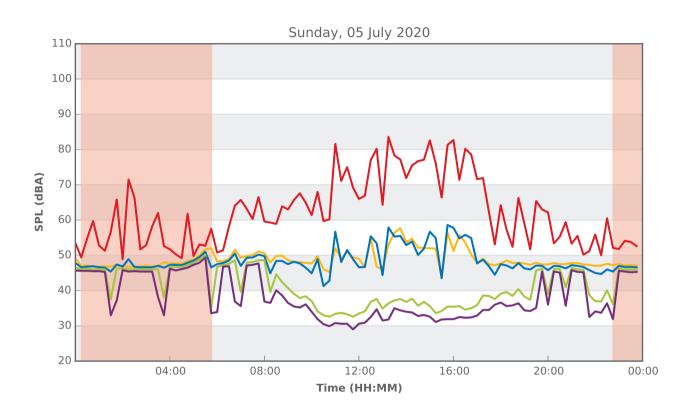


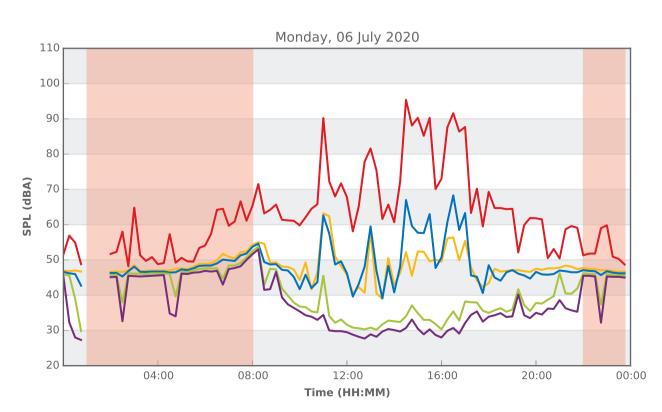




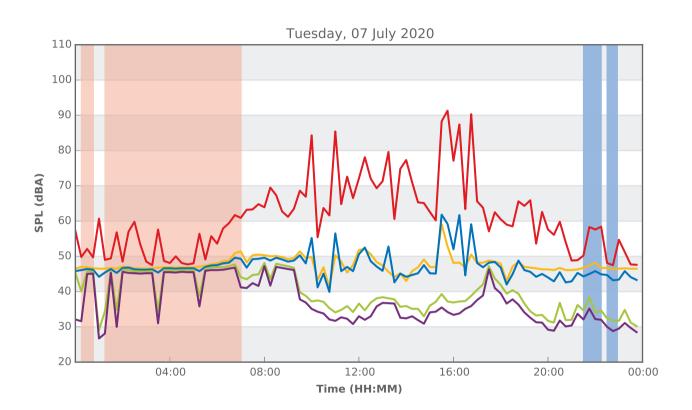


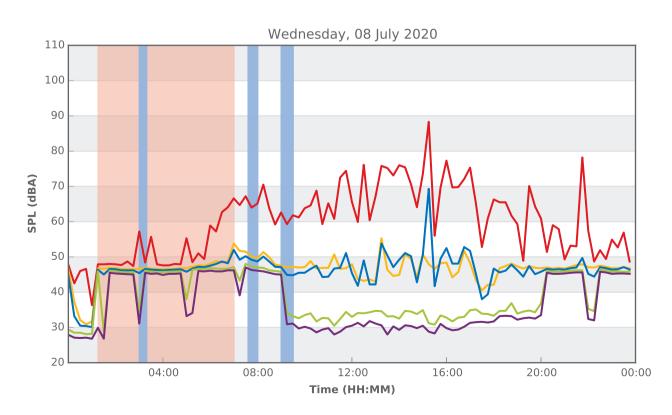




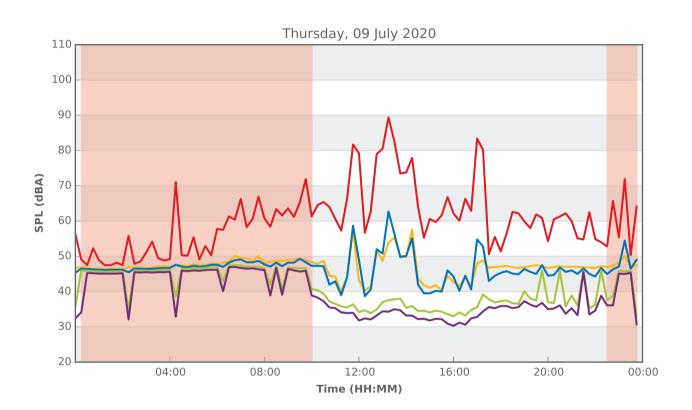


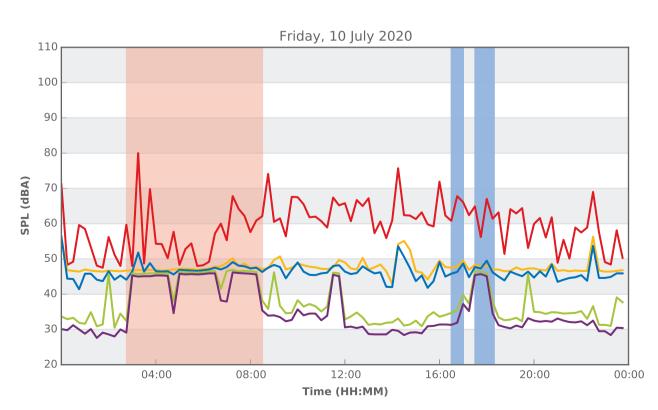




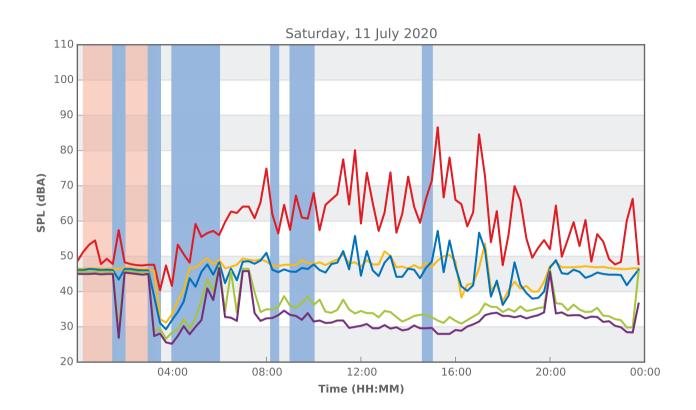


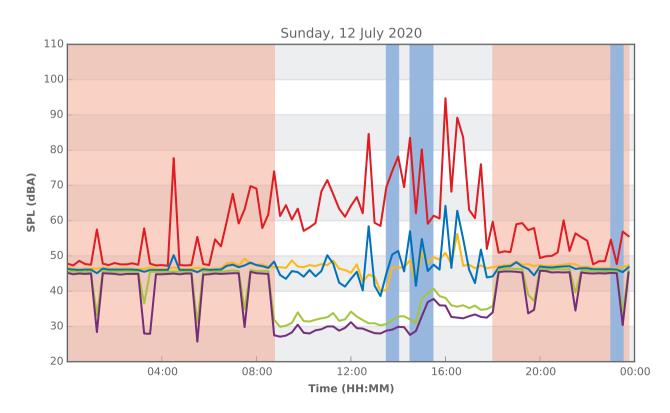




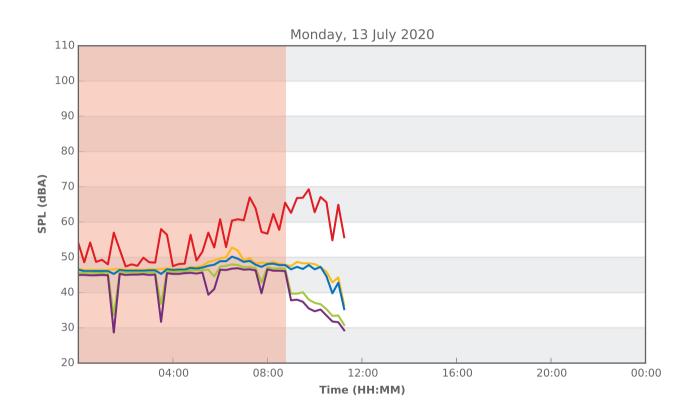












Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

#### APPENDIX L

Stormwater Management Plan



# Stormwater Management and Servicing Report

Sydney Business Park – Stage 3 - Subdivision Roads, Drainage and Basin A extension Astoria Street, Marsden Park Subdivision Works Certificate









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David Healy Effective Date: 3 Feb 2021 Senior Civil Design Engineer

## Approved by:

Mariano Polisciuk Effective Date: 5 Feb 2021 Engineering Design Manager

#### **Document Control**

Revision	Prepared	Reviewed	Approved	Date	Description	Project Reference
А	David Healy	Mariano Polisciuk	Mariano Polisciuk	5 Feb 2021	Issued for Construction Certificate Approval	20-0127-04-CC

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# **Executive Summary**

Orion Consulting has been engaged by Sydney Business Park to prepare Civil Engineering Plans and an accompanying Stormwater Management and Servicing Report to support the Subdivision Works Certificate approval for an industrial subdivision located at Astoria Street, Marsden Park NSW.

This report outlines the site-specific strategy for managing the stormwater quantity and quality to achieve the requirements and targets set out in the Marsden Park Industrial Development Control Plan. This report also aims to communicate the utility servicing requirements and availability for the future occupants of the development.

Basin A is a regional basin proposed for delivery under Blacktown City Council's section 7.11 Contributions Plan. Basin A is being delivered by Council as part of a wider package of stormwater works for the Little Creek catchment. Council approved the Review of Environmental Factors for the works in January 2020. The concept approval is pending, subject to approval by Transgrid due to easement and stanchion locations. Basin A is located within the wider property boundary to the west of the development site and much of the development site will drain to this basin once it is constructed. Sydney Business Park is proposing to enter into an agreement with Council to partially deliver Basin A on Council's behalf (under Council's approval), which would enable the basin to be used as a temporary basin for the proposed development.

Run-off from the public roads will be treated via pit inserts (Ocean Protect OceanGuards or approved equivalent) for gross pollutant capture in the interim until the permanent Gross Pollutant Trap (GPT) upstream of the Basin A inlet and extension of Hollinsworth Road is completed. The discharge from the roads will be further treated by the raingarden located at the northern end of Basin A (upon completion).

The availability of utilities to service the site has also been investigated. Potable water supply to the development will be extended from existing mains in Hollinsworth Road and Astoria Street. The cross connection of the water supply network between Hollinsworth Road and Astoria Street via the North-South subdivision Road (Road 1) will facilitate a ringed supply in the area.

Sewer connection to Warehouse 1 is possible by two options, via either Astoria Street or South Street. Warehouses 2, 3 and 4 can be readily serviced by extending the existing sewer constructed under case number 182934WW directly south along the alignment of the north-south collector road (Road 1).

Electricity is available within 700m of the development site provided by a recently completed substation located on Hollinsworth Road. In addition to this substation, Hollinsworth Road and Astoria Street both have 11kv feeders installed in the road reserve with the provision of conduits to facilitate future feeder upgrades.

Telecommunication connection to the development will be via the NBN as there are existing pit and pipe infrastructure in the existing roads. This network is to be extended during the construction of the proposed road extension of Hollinsworth Road and the North-South Road (Road 1).

At present no gas is required as part of this application, however gas is available within the Marsden Park Industrial Precinct and can be extended on as required between the site users and Jemena.

## 1 Introduction

Orion Consulting has been engaged by Sydney Business Park to prepare Civil Engineering Plans and an accompanying Stormwater Management Strategy and Servicing Report to support the Subdivision Works Certificate approval for the roads and drainage within an industrial subdivision located at Astoria Street, Marsden Park NSW.

This report outlines the site-specific strategy for managing the stormwater quantity and quality to achieve the requirements and targets set out in the Marsden Park Industrial Development Control Plan and utility servicing requirements and availability for the development.

#### 1.1 Site Description

The proposed industrial development is located over the properties Lot 4 DP 1210172, Pt 50 and 51 DP 1265695, Astoria Street, Marsden Park within the Blacktown City Council Local Government Area (LGA) and is part of the Marsden Park Industrial Precinct within North-West Growth Centre.

The total development footprint comprises of approximately 17.3 hectares in area. This report concentrates on the road and drainage required to access the future warehouses within the site. The figure below shows the existing boundary extents, proposed road extents (blue) and future warehouse locations (purple).



Figure 1 – Existing and proposed Boundary Extent - Stage 3 Sydney Business Park (Imagery courtesy of Nearmap ©)

Figure 2 shows the extent of the existing property boundaries and is zoned Industrial IN1 (General Industrial), IN2 Light Industrial and SP2 Infrastructure (Local Road) and SP2 (Local Drainage) under the State Environmental Planning Policy (Sydney Regional Growth Centre) 2006.

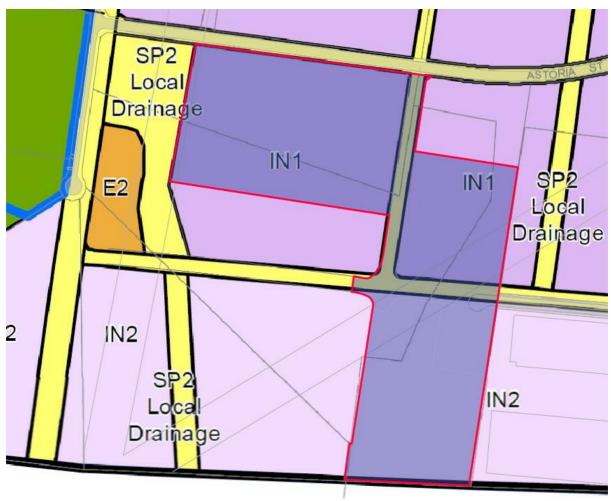


Figure 2 – Land Zoning Map, Blacktown Local Environment Plan Amendment (SRGC – North West Growth Centre)

The Stage 3 development area ('the site') incorporates warehouse allotments and road reserves. This report will primarily cover the road reserve and Basin A requirements.

The Stage 3 site extents are bordered by South Street to the west and Astoria Street to the north, open space vegetated land to the south with development under construction to the east. Hollinsworth Road intersects the property boundary at the east and will be extended through the site and will eventually tie into the South Street extension. This application proposes the extent of Hollinsworth from the east of the site to, and including, the roundabout.

The existing terrain consists of moderate grades of 2% to 3% and generally falls from east to west toward a proposed regional detention basin and South Street. The regional basin is known as 'Basin A' and a concept design has been prepared by Cardno (reference: 80218059-CI) on behalf of Blacktown City Council. A Review of Environmental Factors has been approved by Council in January, 2020, with concept approval pending, subject to Transgrid approval due to easement and stanchion locations.

Sydney Business Park is proposing to enter into an agreement with Council to partially construct the basin (under Council's approval) to aid with fulfilling the on-site detention requirements.

### 1.2 The Proposed Development

The development will ultimately involve the subdivision of the existing lot parcels and construction of:

- A new public collector road (Road 1) running north-south that will connect Astoria Street to Hollinsworth Road extension
- Hollinsworth Road extension towards the western boundary
- A new roundabout at the intersection of the collector road (Road 1) and Hollinsworth Road
- Four (4) industrial sites with warehouses, hardstand and landscaped areas, office space and carparks
- The regional detention basin, Basin A, in the Marsden Park Industrial Precinct Development Control Plan (under a future and separate agreement with Council)
- Associated service reticulation and augmentation

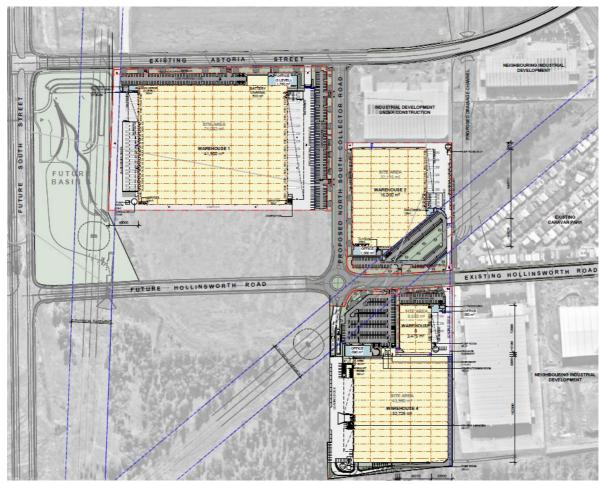


Figure 3 – Site plan by architect

The development has been designed to discharge into the regional stormwater basin 'Basin A' which will ultimately discharge into the receiving waters further downstream at Little Creek. A concept design has been prepared by Cardno for Blacktown City Council with the REF being approved by Council in January 2020.

Basin A will be partially constructed by Sydney Business Park (under Council's approval) and will be permanently developed and commissioned at a later stage in accordance with the section 94 (section 7.11) Council Contributions Plan. Basin A has been designed to cater for the permanent on-site detention requirements for the development and applicable post-development catchment as well as ultimately provide water quality treatment for the public domain roads.

## 1.3 Stormwater Management Objectives

The Integrated Water Cycle Management (IWCM) strategy for the Marsden Park Industrial Release Area was developed by J Wyndham Prince (JWP) in 2010, with the precinct wide stormwater management objectives adopted under the Marsden Park Development Control Plan.

# 2 Water Quality

The proposed public roads will be treated by pit insert GPT baskets (OceanGuard or approved equivalent) to provide treatment in the interim until the GPT proposed at Basin A is constructed. Once the GPT is constructed, the pit inserts within the public roads are to be removed.

#### 3 On-Site Detention

The road levels and finished surface levels within the warehouse allotments have been designed with consideration for the post-development catchments determined by J.Wyndham Prince and the ultimate stormwater management strategy for the Marsden Park Industrial precinct. Both permanent and temporary on-site detention for the development will be provided through the regional basin 'Basin A', which is located to the west of the development site.

Bulk earthworks and temporary stormwater infrastructure for Basin A will be constructed by Sydney Business Park (under Council's Basin A approval), generally in-line with the concept design by Cardno undertaken on behalf of Blacktown City Council. Until Basin A is permanent, it will be used as an interim means to satisfy Council's on-site detention requirement. The Deemed to Comply spreadsheet has been used to determine the storage requirements for the overall site. The proposed roads constitute a small area of the overall site for detention purposes.

Basin A is designed (by others) to drain through a diversion line towards Stockland's Elara Development. If this connection is not available, excess runoff volume would be transferred from the little creek catchment to the Marsden Creek catchment via Basin E as per the currently approved and operating system for Basin B. This scenario is also applicable in the Interim situation when a sediment basin is in place.

The proposed roads provide a method of draining several catchments within the overall site and conveying them to the detention in Basin A. The catchment plan in Figure 4 shows the catchments draining towards and through the proposed roads and catchments bypassing the proposed roads. A small section of Road 1 bypasses Basin A and drains to the north and connects to the existing drainage in Astoria Street.

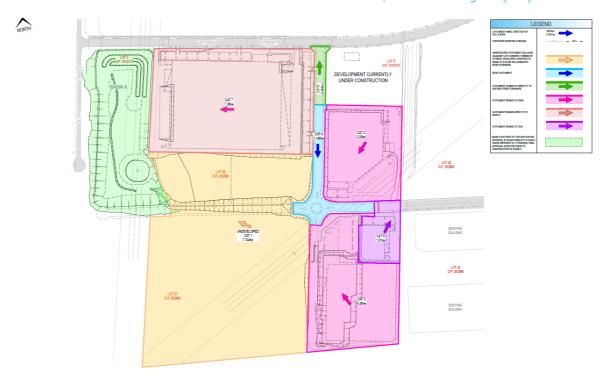


Figure 4 – Overall Catchment Plan

The catchment area draining to the Basin A detention basin is approximately 242,212m² including the undeveloped portion. The required volume for an interim detention basin for this development only is approximately 11,387m³ and has been calculated using the Deemed to Comply Tool. The concept design undertaken by Cardno, reports an overall volume of 76,000m³ which is greater than the volume required by this development. Council has provided updated DRAINS modelling for Basin A which results in an available volume of approximately 36,956m³ at RL 40m. This volume is also larger than the required volume necessary for the development. The volume provided also considers an allowance for 42mm of dead storage over the entire catchment including the development of Sydney Business Park Stage 3.

The interim Bulk Earthworks for the overall site including Basin A is intended to be completed under a separate package of works and will be in place prior to the construction of the roads and drainage.

As part of the construction of the roads and drainage, the previous Interim Basin A earthworks will be expanded to the final footprint as per the design plans prepared by Cardno under Blacktown City Council's guidance.

The low flow pipe (line 301 between pit 301/07 and 301/13) is proposed as part of the subdivision works to facilitate the diversion of low flows from the road catchments to the future raingarden within Basin A.

The remainder of the drainage infrastructure within Basin A is to be constructed in accordance with the plans prepared by Cardno and approved by Blacktown City Council.

## 4 Servicing

#### 4.1 Water Supply

The application proposes the development of four warehouses, new public roads and associated infrastructure. A requirement for the development is to employ rainwater harvesting and reuse to minimise the impact on potable water use. Water demand for warehousing is typically very low. The proposed warehouses are primarily used for the storage and transfer of containerised goods and have low potable water demands, mainly usage for staff facilities such as kitchens and toilets.

Potable water supply to the development will be extended from existing mains in Hollinsworth Road and Astoria Street. The cross connection of the water supply network between Hollinsworth Road and Astoria Street via Road 1 will facilitate a ringed supply in the area, thereby improving the security of the network. In the future, the water supply network will be extended east towards South Street and cross connected with major water supply infrastructure to be provided from Mt Druitt.

#### 4.2 Sewer System

The proposed development will result in very low sewerage generation rates. Notwithstanding this, the Sydney Water standard sewer generation rates for the IN1 and IN2 zoning (45EP/Ha) have been adopted in the planning and design of sewerage system upgrades to service this development.

Planning and design work completed to date by Qalchek for the development site and the broader zoned wastewater catchment indicates that the existing sewer system that terminates on the southern side of Astoria Street at the intersection with South Street at an invert level of 35.04 can be extended by either:

- Option 1: running east along Astoria Street, within the site boundary of Warehouse 1 and extending South or
- Option 2: extending directly south along the future alignment of South Street.

These extensions would service Warehouse 1 and future development on the zoned land to the south.

Warehouses 2, 3 and 4 can be readily serviced by extending the existing sewer constructed under case number 182934WW directly south along the alignment of Road 1, which will be constructed as part of this application. Upgrades to the trunk sewer system by constructing the missing link of gravity sewer contemplated under case number 179024WW has been committed to by Marsden Park Developments Pty Ltd as evidenced by the recent signing of a novation deed with Sydney Water Corporation which legally commits to the construction of this infrastructure.

## 4.3 Electricity Supply

Marsden Park Industrial Precinct has recently had the benefit of the completion of major electricity infrastructure in the form of the South Marsden Park Zone substation located in Hollinsworth Road at Marsden Park. The Zone Substation is located 700 metres east of the subject site. The substation benefits from transmission supply at N-1 via connections to Rouse Hill and Marsden Park North Zone substations. The Zone substation currently has a firm capacity of 45MVA at N-1 and an installed capacity of 90MVA (2 x 45MVA). Current peak demand at this facility is 11MVA.

The expected demand on the network from the subject development is expected to be approximately 5.5 - 6.0 MVA. This bulk supply can be readily met by the existing zone capacity. Further Hollinsworth Road and Astoria

Street both have new underground 11KV feeders located in the road reserve together with conduits to facilitate future feeder upgrades. It is proposed that as part of the Hollinsworth Road extension and the North-South Road 1 construction, the 11KV network would be extended and cross linked between Hollinsworth Road and Astoria Street. This will improve the reliability of the 11KV network in the area by enabling back up supply during outages or if any damage occurs.

#### 4.4 Telecommunications

The telecommunication network in the Marsden Park Industrial Precinct is gradually being completed by NBNCo. The existing network consists of a pit and pipe network constructed in all existing roads to NBN standards. This network of pits and conduits will be extended in new roads as part of the proposed construction of Hollinsworth Road extension and Road 1 construction. Fibre has been extended by NBN and Telstra in both Hollinsworth Road and Astoria Street to service existing users and it is expected that this will be readily rolled out to the new premises proposed in this application.

#### 4.5 Gas

No gas supply is required as part of this application. However, gas supply is available within the Marsden Park Industrial Precinct and is extended on an as required basis with commercial agreements between the users and Jemena.

# 5 Summary

Orion Consulting has been engaged by Sydney Business Park to prepare Civil Engineering Plans and an accompanying Stormwater Management Strategy and Servicing Report to support Subdivision Works Certificate application for an industrial subdivision located at Astoria Street, Marsden Park NSW.

The construction of the roads and drainage for the development will provide connection for the future warehouses proposed within the development. The expansion of the Basin A footprint will provide Council with the basis for the completion of Basin A which will ultimately provide water quality treatment for the proposed roads when the pit inserts (OceanGuards) are removed.

An investigation into the servicing strategy and provision of utilities for the development have indicated that existing connections can be made available for the supply of potable water, wastewater removal, electricity and telecommunications. Gas is not a mandated requirement for the site, but a supply point is available to be connected into should the customers require it. Reticulation design of services will be undertaken by others during detail design phase of the warehouses.

## 6 References

Australian Rainfall and Runoff: A Guide to Flood Estimation, Ball J, Babister M, Nathan R, Weeks W, Weinmann E, Retallick M, Testoni I, (Editors), Commonwealth of Australia (Geoscience Australia) 2019

Blacktown City Council: "Engineering Guide for Development" 2005

Queensland Urban Drainage Design Manual, Third Edition, Queensland Government Department of Energy and Water Supply 2013

Concept Design Report – Section 94 CP21 Marsden Park Industrial Precinct – Package 1 Little Creek Tributary, Prepared by Cardno, 3 March 2020

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

#### **APPENDIX M**

Aboriginal Cultural Heritage Management Plan





# Stage 3 Facilities, Sydney Business Park Aboriginal Cultural Heritage Management Plan

February 2021





#### Prepared by:



pjep environmental planning pty ltd, abn. 73 608 508 176 tel. 02 9918 0830 striving for balance between economic, social and environmental ideals...

PJEP Ref: ACHMP\_Feb21

#### Prepared for:



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Together with:



CAMELLIA NSW 2142

**Australian Pharmaceutical Industries Ltd** 11 Grand Avenue



TJX Australia Pty Ltd Level 3, 189 O'Riordan Street MASCOT NSW 2020

Revision	Date	Description	Author	Approved
DRAFT	22 Dec 20	Draft for consultation	P. Jones, B.App.Sc	
FINAL	1 Feb 21	Final	P. Jones, B.App.Sc	

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- 2 Stage 3 Master Plan
- 3 Aboriginal Sites

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- B Consultation Responses



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## 1 INTRODUCTION

Marsden Park Developments Pty Ltd (Sydney Business Park) is developing four warehouse and distribution facilities in the 'Stage 3' area of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney (see **Figure 1**).

This Aboriginal Cultural Heritage Management Plan (ACHMP) has been prepared by PJEP Environmental Planning Pty Ltd (PJEP) on behalf of Sydney Business Park, to provide guidance on the management of Aboriginal cultural heritage during the development of the Stage 3 Facilities.

The ACHMP has been prepared with the assistance of the Project Archaeologist, Matthew Kelleher of Kelleher Nightingale Consulting (KNC), and in consultation with the Registered Aboriginal Parties (RAPs) for the development.

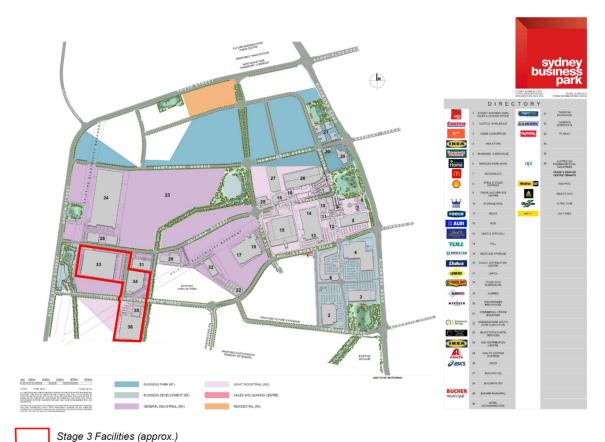


Figure 1: Sydney Business Park Master Plan (Source: Sydney Business Park)

## 1.1 Development Summary

Sydney Business Park is developing four world-class warehouse and distribution facilities within the Stage 3 area of Sydney Business Park. The development is classified as State Significant Development, and the Minister for Planning and Public Spaces (or his delegate) is the consent authority for the development.

The master plan for the Stage 3 development is shown on **Figure 2**, and the main components of the development are outlined in **Table 1**.

A full description of the development is provided in the Environmental Impact Statement (EIS) and other supporting documentation, which can be viewed on the Department of Planning, Industry and

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Environment's (the Department's) website at: Sydney Business Park - Stage 3 | Major Projects - Department of Planning and Environment (nsw.gov.au).

Table 1: Stage 3 Facilities Development Summary

Development Summary	Development of the Sydney Business Park Stage 3 Facilities, including: <ul><li>subdivision;</li><li>vegetation clearing and earthworks;</li></ul>			
	<ul> <li>construction of two estate roads and associated intersections;</li> <li>construction and operation of four warehouse and distribution facilities including ancillary offices; and</li> <li>ancillary development including car parking, infrastructure provision and landscaping</li> </ul>			
Proposed Use	Warehousing and distribution, with ancillary office.			
	Warehouse 1 will be used for storage and distribution of TJX Australia Pty Ltd's (TJX's) range of general consumer products, including clothing, footwear, homewares, beauty products, accessories and related consumer products.			
	Warehouses 2 and 3 will also be used for storage and distribution of general consumer products by as-yet unidentified end users.			
	Warehouse 4 will be used for storage and distribution of Australian Pharmaceutica Industries Ltd's (API's) range of pharmaceutical and related consumer products including pharmaceutical and therapeutic goods			
Subdivision	Lots 4, 5 and 36 will be subdivided to provide seven development lots, one lot fo precinct stormwater infrastructure (which will be dedicated to Council), and a lot fo the proposed roads (which will also be dedicated to Council)			
Clearing, Demolition and Earthworks	Vegetation clearing across the site will be undertaken to facilitate the development Most of the site is already cleared, though there are some trees in the south-eastern part of the site.			
	Demolition of minor site structures (mainly fencing and a small section of road) will be undertaken, along with bulk and detailed earthworks across the site to facilitate the development			
Facility Development	<ul> <li>Construction and operation of the Stage 3 Facilities, including:</li> <li>Warehouse 1 (TJX Facility) – 44,560 m² total building area;</li> <li>Warehouse 2 (unspecified end user) – 16,835 m² total building area;</li> <li>Warehouse 3 (unspecified end user) – 3,860 m² total building area; and</li> <li>Warehouse 4 (API Facility) – 34,201 m² total building area.</li> </ul>			
	All warehouse facilities will include attached ancillary offices. The warehousing facilities in Warehouse 4 will include a basement level and mezzanine level Warehouses 1 and 4 will be temperature-controlled warehouses, and Warehouses 2 and 3 will be ambient-temperature warehouses			
Landscaping	Implementation of site landscaping consistent with estate landscaping, including street trees in roadways and landscaping within each individual warehouse facility site			
Signage	Building identification, business identification and directional signage			
Hours of Operation	24 hours a day, 7 days a week			
Capital Investment Value	\$157.4 million (exc. GST)			
Employment <sup>1</sup>	Construction: 670 Operation: 610			



Infrastructure and S	Infrastructure and Services					
Roads	Sydney Business Park will extend Hollinsworth Road to the western side of the site, and construct a new north-south collector road between Hollinsworth Road and Astoria Street, as well as constructing associated intersections.					
	The proposal also involves construction of internal driveways, hardstand and parking for each warehouse facility					
Stormwater	Development of site stormwater infrastructure will be undertaken for the facilities, draining to estate stormwater infrastructure (including existing Basin E and future Basin A).					
Potable Water, Sewer, Electricity and Telecoms	Extension and connection to existing mains in Hollinsworth Road and Astoria Street and/or South Street, and reticulation through the site					

<sup>1</sup> Estimate

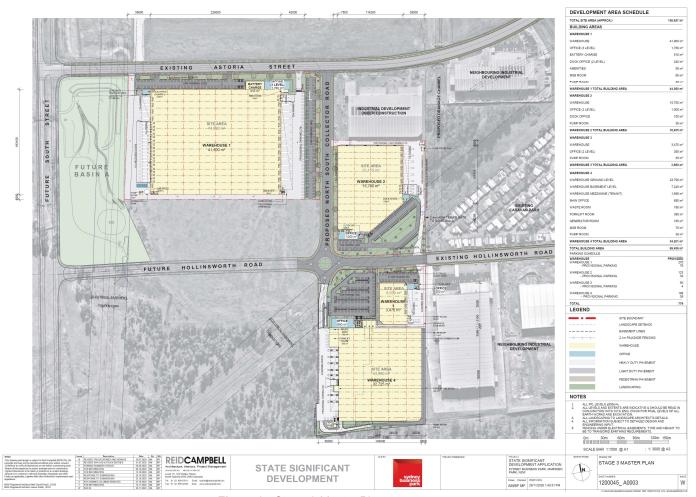


Figure 2: Stage 3 Master Plan (Source: Reid Campbell)



## 2 PURPOSE AND APPLICATION

## 2.1 Purpose

The purpose of this ACHMP is to describe how Aboriginal heritage will be protected and managed during the construction of the Stage 3 Facilities development.

# 2.2 Objectives

The key objective of this ACHMP is to ensure that Aboriginal heritage is protected and managed in accordance with the:

- EIS for the Stage 3 Facilities development, including the response to submissions documents;
- the Aboriginal Cultural Heritage Assessment (ACHA) prepared for the development (see Section 3); and
- conditions of development consent.

# 2.3 Targets

The following targets have been established for the management of Aboriginal heritage impacts during the development:

- Comply with the relevant legislative requirements, conditions of approval and mitigation measures;
- Follow procedures for the mitigation and management of extant Aboriginal sites and any unexpected Aboriginal sites or objects identified during the development;
- Undertake collection and management of extant sites and any additional sites or objects identified during the development, in consultation with the RAPs; and
- Provide heritage awareness training to all personnel including sub-contractors as part of the induction training before they start work onsite and in toolbox talks throughout construction.

#### 2.4 Personnel

Environmental management of the Stage 3 Facilities site and wider Sydney Business Park is the responsibility of all Sydney Business Park employees, end-user employees, contractors and visitors to the site.

All of these stakeholders are responsible for complying with the requirements of this ACHMP, and for complying with wider legal responsibilities, including the development consent for the Stage 3 Facilities development.

Management at all levels and supervising personnel are to lead by example and set the highest standards for environmental and cultural heritage management, in accordance with the Sydney Business Park Environmental Policy and this ACHMP. They are to act immediately to correct any non-conforming condition of behaviours and promote environmental and cultural heritage awareness, good environmental housekeeping and continual improvement at every opportunity.

The key personnel and stakeholders involved in the implementation of this ACHMP include:

- Sydney Business Park Project Managers who will have day-to-day responsibility to ensure
  that all construction and development activities are undertaken in accordance with this
  ACHMP, the Environmental Management Plans (EMPs) and all legal and other requirements
  including the development consent and for ensuring that all contractors and visitors are aware
  of the ACHMP and their related responsibilities;
- Project Archaeologist Sydney Business Park will retain a suitably qualified archaeologist (nominated as Matthew Kelleher of KNC, or other archaeologist of similar qualification and experience) to review this ACHMP, co-ordinate the collection and management of extant



- Aboriginal sites within the Stage 3 Facilities site in consultation with the RAPs, and manage any unexpected Aboriginal sites identified during the development; and
- Registered Aboriginal Parties (RAPs) who will be involved in collection and management
  of extant Aboriginal sites within the Stage 3 Facilities site, and in the management of any
  unexpected Aboriginal sites or objects identified during the development.

Additional responsibilities in relation to implementation of the ACHMP are detailed in the following sections.

## 2.4.1 Registered Aboriginal Parties

As part of the Aboriginal heritage assessment for the development (see Section 3), Aboriginal stakeholders were invited to register an interest in a process of community consultation.

Stakeholders who registered an interest and/or who participated in the assessment are listed in the following table.

Table 2: Registered Aboriginal Parties

Group / Individual <sup>1</sup>	Representative / Contact
Deerubbin Local Aboriginal Land Council (LALC)	CEO
A1 Indigenous Services (A1)	Carolyn Hickey
Amanda Hickey Cultural Services (AHCS)	Amanda DeZwart
Barraby Cultural Services (BCS)	Lee Field
Butucarbin Aboriginal Corporation (BAC)	Lowanna Gibson
Darug Custodian Aboriginal Corporation (DCAC)	Justine Coplin
Dhinawan Culture and Heritage Pty Ltd (DCH)	Stephen Fields
Didge Ngunawal Clan (DNC)	Paul Boyd & Lilly Carroll
Freeman & Marx Pty Ltd (F&M)	Clive Freeman
Kamilaroi Yankuntjatjara Working Group (KYWG)	Phil Khan
Merrigarn	Shaun Carroll
Muragadi Heritage Indigenous Corporation (MHIC)	Jesse Johnson
Murra Bidgee Mullangari Aboriginal Corporation (MBMAC)	Ryan Johnson
Registered Aboriginal Stakeholder	Details Withheld
Registered Aboriginal Stakeholder	Details Withheld
Tocomwall	Scott Franks
Waawaar Awaaa Aboriginal Corporation (WAAC)	Rodney Gunther
Wailwan Aboriginal Group (WAG)	Phil Boney
Warragil Cultural Services (WCS)	Aaron Slater
Widescope Indigenous Group (WIG)	Steven Hickey
Wurrumay Pty Ltd	Vicky Slater
Yulay Cultural Services (YCS)	Arika Jalomaki
Yurrandaali Pty Ltd	Bo Field

Two additional Aboriginal stakeholders registered for the development but have chosen to withhold their details in accordance with item 4.1.5 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010.



This ACHMP has been prepared in consultation with the RAPs¹. Responses were received from DCAC, DCH, MBMAC, MHIC and Tocomwall, and are attached in **Appendix B**. All of the responses apart from DCAC either supported the ACHMP or did not raise any issues. DCAC noted that it did not support the survey recommendation as it was not invited to the survey. KNC notes that DCAC was consulted (as a RAP) during the preparation of the ACHA (see **Appendix A**), and participated in the original survey in 2009 (see below). All RAPs will continue to be consulted during the implementation of the ACHMP.

## 3 ABORIGINAL HERITAGE ASSESSMENT

The Marsden Park Industrial Precinct has been subject to comprehensive archaeological assessments, including a precinct-wide assessment undertaken by KNC for the Department in 2009.

An additional Aboriginal Cultural Heritage Assessment (ACHA) for the Stage 3 Facilities development was prepared by KNC in September 2020, in consultation with the RAPs. The ACHA is attached as **Appendix A**.

The ACHA identified that two extant Aboriginal sites remain in the southern area of the Stage 3 Facilities site, within the footprint of the Warehouse 4 Facility. No other Aboriginal sites within the Stage 3 Facilities site are identified on the NSW Aboriginal Heritage Information System (AHIMS), or were identified during site surveys.

The two extant sites are shown on Figure 3, and include:

- MPIP 17 (AHIMS 45-5-3748) comprising two stone artefacts (red silcrete); and
- MPIP 18 (AHIMS 45-5-3749) comprising a scatter of eight stone artefacts (yellow and red silcrete).

The MPIP 17 site was identified during the original 2009 survey. The location of the site was confirmed during the 2020 survey, however the two previously recorded artefacts were not able to be relocated during the visit. The ACHA notes that the area has been subject to ongoing disturbance since the first survey.

The MPIP 18 was identified during the original 2009 survey. The artefact scatter could also not be relocated in the 2020 survey, although two additional silcrete artefacts (comprising one core and one retouched flake) were identified along an eroded vehicle access track. The ACHA notes that the area has been subject to ongoing disturbance since the first survey.

Both the MPIP 17 and MPIP 18 sites were assessed as having low archaeological significance.

The proposed development will effectively cover the entirety of the Stage 3 Facilities site and impact sites MPIP 17 and MPIP 18. Impacts to these sites are unavoidable due to the nature of the development, which requires bulk earthworks across the site to create level building pads for the warehouses.

Part of MPIP 18 lies outside the development site, and this portion of the site will not be impacted by the development (see **Figure 3**).

<sup>&</sup>lt;sup>1</sup> Via email from KNC dated 23 December 2020.



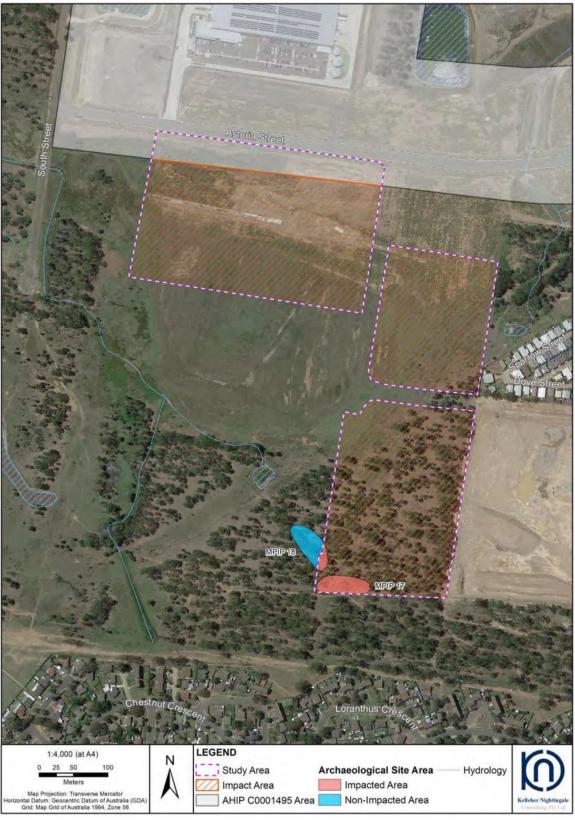


Figure 3: Aboriginal Sites (Source: KNC)



## 4 MITIGATION AND MANAGEMENT

## 4.1 Mitigating Harm

Consistent with the recommendations of the ACHA, the measures outlined in **Table 3** will be undertaken by Sydney Business Park to mitigate the impacts of the development on Aboriginal cultural heritage.

Table 3: Mitigation Measures for Impacted Aboriginal Sites

Site Name	AHIMS Number	Impact Assessment	Assessed Significance	Harm Mitigation	When	Responsibility
MPIP 17	45-5-3748	Direct / total	Low	Community collection, and subsequent management, of surface artefacts.	Prior to disturbance of MPIP 17	Project archaeologist, with RAPs
MPIP 18	45-5-3749	Direct / partial	Low	Community collection, and subsequent management, of surface artefacts.	Prior to disturbance of MPIP 18	Project archaeologist, with RAPs
				Protective fencing of non- impacted portion of site during construction	Prior to and during construction of Warehouse 4	Project Manager
				Identify non-impacted portion of site in Construction Environmental Management Plan (CEMP)	Prior to construction of Warehouse 4	Project Manager
				Include ACHMP training in site induction	Prior to and during construction of Warehouse 4	Project Manager

#### 4.1.1 Method of Collection

Prior to any disturbance of the extant Aboriginal sites, the RAPs will be notified and provided with an opportunity to attend the site with the Project Archaeologist and collect the surface artefacts in accordance with the methodology below.

The objects and their location have been recorded as part of the assessment process (ACHA, archaeological survey and site card). Collection will involve the physical picking up of the objects and the completion of an Aboriginal Site Impact Recording Form (ASIRF).

Collection will only occur after development consent for the Stage 3 Facilities development is granted, and will occur in accordance with the development consent.

## 4.1.2 Management of Non-Impacted Portion of MPIP 18

Management measures will be implemented for site MPIP 18 to ensure that the non-impacted portion of site is avoided by the development and construction activities.

Management measures to be implemented include the demarcation of the non-impacted portion of MPIP 18 with protective fencing and identification of this area as an environmentally sensitive "no-go zone".



The site will also be identified within the Construction Environmental Management Plan (CEMP) for the development. Documented toolbox talks will be held to ensure all on-site staff and contractors are aware of obligations and requirements regarding the protection of Aboriginal heritage.

## 4.2 Management Procedures

## 4.2.1 Management Policy for Aboriginal Heritage

The policy for the management and conservation of Aboriginal heritage in relation to collection activities and construction activities (or fencing, geotechnical investigations, minor clearing, establishing site compounds, adjustment to services/utilities etc.) is described below:

#### Responsibility for Compliance with Management Policy

- 1. Sydney Business Park will ensure all of its employees, contractors and subcontractors and agents are made aware of and comply with this management policy.
- 2. Sydney Business Park will appoint a suitably qualified and experienced Project Manager who is responsible for overseeing the activities related to this management policy.
- 3. Sydney Business Park will appoint a suitably qualified and experienced Project Archaeologist who is responsible for overseeing, for and on behalf of Sydney Business Park, the archaeological activities relating to the construction of the development.

#### **Construction Constraints**

- 4. Where the surface collection of artefacts has been nominated for the impacted site, no construction activities (or fencing, geotechnical investigations, minor clearing, establishing site compounds, adjustment to services/utilities etc.) can occur in the vicinity of the Aboriginal sites until the relevant surface collection at the nominated site has been completed.
- 5. Prior to the commencement of early works activity (eg. fencing, minor clearing, establishing site compounds etc.) a construction heritage site map identifying the Aboriginal site requiring the collection of surface artefacts and the Aboriginal sites to be avoided (for all sites in proximity to the project boundary) must be prepared. The construction heritage site map should be prepared to the satisfaction of Sydney Business Park.
- 6. All employees, contractors, subcontractors and agents carrying out early works activities (eg. fencing, minor clearing, geotechnical investigations, establishing site compounds etc) must undertake a project induction (including the distribution of a construction heritage site map) to ensure that they have an understanding and are aware of the Aboriginal heritage issues affecting the development.

#### Areas of Aboriginal Archaeological Sites and Objects to be Impacted

- 7. The areas of archaeological sites and objects identified as being impacted by construction activities are listed in **Table 3** of this plan and are in accordance with the ACHMP and any development consent.
- 8. No disturbance of Aboriginal sites and objects can occur before a development consent for the Stage 3 Facilities is granted, and all disturbance must be in accordance with the development consent.

#### **Human Remains**

9. This management policy does not authorise any damage of human remains.



10. If potential human remains are disturbed the Proponent must follow the procedures outlined in Section 4.3 below.

#### Involvement of Aboriginal Stakeholders

11. Opportunity must be provided to the RAPs to be involved in the surface collection, which will be undertaken in accordance with the methodology specified in Section 4.1.

#### Long-Term Care and Management of Collected Aboriginal Objects

12. Recovered Aboriginal objects will be handled in accordance with Requirement 26 "Stone artefact deposition and storage" in the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* as required.

#### Reporting Requirements

- 13. A written archaeological report documenting the collection must be provided to Sydney Business Park by the Project Archaeologist within a reasonable time following the completion of the archaeological program.
- 14. An Aboriginal Site Impact Recording Form (ASIRF) must be completed and lodged with Heritage NSW for the archaeological sites listed in **Table 3** within a reasonable time after the approved activities have been completed.

#### Incident Notification and Reporting

15. Incident reporting requirements in accordance with the development consent is to include Aboriginal heritage.

# 4.3 Procedures for Handling Human Remains

Development consents do not provide approval for the destruction of Aboriginal or non-Aboriginal human remains.

This section outlines the procedure for handling human remains in accordance with the *Skeletal Remains* – *Guidelines for the Management of Human Skeletal Remains under the Heritage Act* 1977 (NSW Heritage Office 1998) and the *Aboriginal Cultural Heritage Standards and Guidelines Kit* (NPWS 1997).

In the event that construction activity reveals possible human skeletal material (remains), the following procedure is to be followed:

- As soon as remains are exposed, all work is to halt at that location immediately and the Project Manager is to be immediately notified to allow assessment and management, including:
  - i. stopping all activities; and
  - ii. securing the site.
- 2. Contact Police the discovery of human remains triggers a process which assumes that they are associated with a crime. The NSW Police retain carriage of the process until such time as the remains are confirmed to be Aboriginal or historic.
- 3. The Department, as the consent authority, will be notified when human remains are found.



- 4. Once the Police process is complete and if remains are not associated with a contemporary crime contact the Department. The Department will determine the process, in consultation with Heritage NSW as appropriate:
  - i. if the remains are identified as Aboriginal, the site is to be secured and the Department and all Aboriginal stakeholders are to be notified in writing. The Department will act in consultation with Heritage NSW as appropriate. Heritage NSW will be notified in writing according to the Department's instructions; or
  - ii. if the remains are identified as non-Aboriginal (historical) remains, the site is to be secured and the Department is to be contacted. The Department will act in consultation with the Heritage NSW as appropriate.
- 5. Once the Police process is complete and if the remains are identified as not being human, work can recommence once the appropriate clearances have been given.

# 4.4 Procedures for Handling Unexpected Aboriginal Objects

This section outlines the procedure for handling unexpected archaeological sites and objects.

In the event that construction activity reveals possible Aboriginal objects other than those identified in **Table 3**, the following procedure is to be followed:

- 1. All work is to halt at that location immediately and the Project Manager is to be immediately notified to allow assessment and management, including:
  - i. stopping all activities; and
  - ii. securing the site.
- 2. Contact the Project Archaeologist to assess the find and determine if it is consistent with the development consent:
  - i. if the find is consistent, the archaeologist will allow work to continue;
  - ii. if the find is inconsistent, Heritage NSW will be notified as soon as practical on 131555 providing any details of the Aboriginal object and its location. Work cannot recommence unless authorised in writing by Heritage NSW.

# 4.5 Procedure for Changes to the Approved Development

Sydney Business Park recognises that during the construction of the development, design alterations or other changes to the approved development may be required.

Any changes that increase the impacted area of MPIP 18 would need to be assessed as part of a modification application or other development approval under the *Environmental Planning and Assessment Act 1979*. Any such application would likely require consultation with the RAPs and applicable government authorities including Heritage NSW.

## 5 REVIEW

Sydney Business Park will review, and if necessary revise, this ACHMP within 3 months of:2

- the identification of any unexpected Aboriginal sites or objects on the site;
- the submission of any incident report required under the development consent involving Aboriginal heritage matters;
- the submission of any environmental audit reports required under the development consent involving Aboriginal heritage matters;
- the approval of any modification of the development consent; or
- the issue of a direction of the Planning Secretary of the Department which requires a review.

<sup>&</sup>lt;sup>2</sup> Or as otherwise required under the development consent.



If necessary to either improve the performance of the development, cater for a modification or comply with a direction, the plans shall be revised to the satisfaction of the Planning Secretary. <sup>3</sup>

Where revisions are required, the revised document should be submitted to the Planning Secretary for approval within 6 weeks of the review. Any revision involving material changes to the ACHMP should be prepared in consultation with the RAPs and Heritage NSW.

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<sup>&</sup>lt;sup>3</sup> As required under the development consent.



# **APPENDIX A**



# STAGE 3 FACILITIES SYDNEY BUSINESS PARK MARSDEN PARK, NSW

**Aboriginal Cultural Heritage Assessment Report** 

Prepared for Marsden Park Developments Pty Ltd

Blacktown Local Government Area

September 2020

Ref. 1947

KELLEHER NIGHTINGALE CONSULTING PTY LTD
Archaeological and Heritage Management
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#### **Document Information**

Project Name	Stage 3 Facilities Sydney Business Park: Marsden Park, NSW Aboriginal Cultural Heritage Assessment Report
Project Number	1947
Version	Final
Client Name	Marsden Park Developments Pty Ltd
Recipient	Michael Gray
Issue Date	30 September 2020
Prepared by	Dr Matthew Kelleher; Mark Rawson; Madeline Harding; Ben Anderson
Approved by	Dr Matthew Kelleher

#### **Executive Summary**

Marsden Park Developments Pty Ltd proposes to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park within the Marsden Park Industrial Precinct. The study area comprises lands located in Part Lots 4 and 5 DP1210172 and Part Lot 36 DP262886 at Marsden Park in the Blacktown Local Government Area (LGA).

The project is State Significant Development (SSD-10477) and subject to approval under Part 5.1 of the *Environmental Planning and Assessment Act* 1979 (EP&A Act). Department of Planning, Environment, Industry and Environment (DPIE) approval would be required prior to any harm to Aboriginal objects. Impacts to Aboriginal heritage will be assessed in accordance with the Secretary's Environmental Assessment Requirements (SEARs) issued for the project on 24 July 2020.

To support an application for project approval, Marsden Park Developments Pty Ltd is preparing an Environmental Impact Statement (EIS) and has undertaken Aboriginal heritage assessment for the project. Kelleher Nightingale Consulting (KNC) was engaged by Marsden Park Developments Pty Ltd to assist in the preparation of an Aboriginal cultural heritage assessment report (CHAR) for Aboriginal objects that will be harmed by the proposal.

The study area has been previously assessed in a comprehensive Aboriginal heritage report for the Marsden Park Industrial Precinct (2009). The results from the current assessment are consistent with the existing 2009 cultural heritage assessment results. Background research and archaeological assessment including comprehensive field survey has identified two previously registered archaeological sites within the study area. These sites comprised two low density surface artefact scatter sites: MPIP 17 (AHIMS 45-5-3748) and MPIP 18 (AHIMS 45-5-3749). Recent archaeological field survey confirmed the findings of previous archaeological assessments undertaken across the study area. The study area has been subject to extensive and widespread landuse disturbance. Disturbed deposits were identified at both MPIP 17 and MPIP 18 site locations; despite the presence of additional artefacts recorded at MPIP18. Intensive vegetation clearance, stripping and earthmoving activities across the study area had resulted in extensive disturbance and related erosion, with limited potential for intact or significant subsurface archaeology to occur. Significance assessment completed as part of the CHAR process confirmed that sites MPIP 17 and MPIP 18 displayed little to no intact archaeological deposit and low archaeological significance.

MPIP 17 and MPIP 18 are located within IN1 and IN2 zoned lands and would be at least partially impacted by the proposed works. Mitigation for the identified impact to the sites in the form of salvage excavation is not warranted as the sites are of low archaeological significance. Similarly, non-practicable avoidance measures are not warranted for the impacted archaeology. The impacted archaeological sites are located in a disturbed landscape context and are not considered likely to retain any intact subsurface archaeological deposit. While Aboriginal objects exist within the disturbed landscape context of the study area, these offer little intrinsic scientific value, being examples of regionally common raw materials and artefact types. Surface artefact collection is recommended for both sites identified within the study area: MPIP17 and MPIP18. Surface collection would be undertaken with registered Aboriginal stakeholders.

Impact assessment determined that MPIP 18 will be partially impacted by the proposed development. Management measures must be implemented for site MPIP 18 to ensure that the non-impacted portion of the site is avoided by proposed development and construction activities. Management measures to be implemented include the demarcation of the non-impacted portion of MPIP 18 with protective fencing and identification of this area as an environmentally sensitive "no-go zone". The site will also be identified on any construction environmental managements plans (or similar), and documented toolbox talks will be held to ensure all on-site staff and contractors are aware of obligations and requirements regarding the protection of Aboriginal heritage.

The proposed works overlaps an area that has been previously assessed for its Aboriginal cultural heritage values and is covered under an existing Aboriginal Heritage Impact Permit (AHIP) held by Marsden Park Development Pty Ltd (AHIP# C0001495). Any works undertaken within the existing AHIP area must be undertaken in accordance with AHIP conditions.

Project approval will be required prior to the impacts to the following Aboriginal archaeological sites:

MPIP 17 AHIMS 45-5-3748 Total impact Low significance MPIP 18 AHIMS 45-5-3749 Partial impact Low significance

This CHAR has been prepared to address the Aboriginal heritage requirements identified in the SEARs for the project. The purpose of this technical paper is to identify and assess the Aboriginal heritage impacts of the project. The CHAR complies with the Heritage NSW Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW and Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW. A consultation process has been undertaken in accordance with Heritage NSW requirements for the preparation of the CHAR.



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# 1 Introduction

# 1.1 Proponent and consultants

Marsden Park Developments Pty Ltd proposes to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park within the Marsden Park Industrial Precinct. The study area comprises lands located in Part Lots 4 and 5 DP1210172 and Part Lot 36 DP262886 at Marsden Park in the Blacktown Local Government Area (LGA). The location of the study area is shown on Figures 1 and 2.

The project is State Significant Development (SSD-10477) and subject to approval under Part 5.1 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). Department of Planning, Environment, Industry and Environment (DPIE) approval would be required prior to any harm to Aboriginal objects. Impacts to Aboriginal heritage will be assessed in accordance with the Secretary's Environmental Assessment Requirements (SEARs) issued for the project on 24 July 2020.

To support an application for project approval, Marsden Park Developments Pty Ltd is preparing an Environmental Impact Statement (EIS) and has undertaken Aboriginal heritage assessment for the project. Kelleher Nightingale Consulting (KNC) was engaged by Marsden Park Developments Pty Ltd to assist in the preparation of an Aboriginal cultural heritage assessment report (CHAR) for Aboriginal objects that will be harmed by the proposal. The proposed development area has been previously assessed in an Aboriginal heritage report for the Marsden Park Industrial Precinct (2009). The results from the current comprehensive assessment are consistent with the existing 2009 cultural heritage assessment results.

### 1.2 Location and scope of activity

The study area is situated in Marsden Park in Sydney, approximately 50 kilometres northwest of the Sydney CBD (Figure 1). The study area comprises lands located at Astoria Street, Marsden Park, NSW 2765. The study area is generally bound by Astoria Road to the north, private property to the east, SP2 infrastructure zoned lands to the south and South Street and private property to west (Figure 2).

The proposed physical works occur within lands zoned IN1 General Industrial, IN2 Light Industrial and SP2 Infrastructure (Local Roads) under the Marsden Park Industrial Precinct Plan. The proposed activities associated with the subdivision and development would likely include:

- Site subdivision;
- Vegetation clearing, demolition of minor structures and earthworks (including cut/fill operations);
- Construction of two estate roads and associated intersections;
- Stormwater infrastructure (including potential temporary estate basin);
- Construction and operation of four warehouse and distribution facilities; and
- Ancillary development including car parking, infrastructure provision and landscaping.

### 1.3 Project requirements

This CHAR has been prepared to address the Aboriginal heritage requirements identified in the SEARs for the project for the purpose of seeking project approval under Part 5.1 of the EP&A Act. The purpose of this technical paper is to identify and assess the Aboriginal heritage impacts of the project. The objectives of the CHAR combine Aboriginal community consultation with an archaeological investigation in accordance with:

- Secretary's environmental assessment requirements;
- Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (OEH 2010a);
- Guide to investigation, assessing and reporting on Aboriginal Cultural Heritage in NSW (OEH 2011); and
- Aboriginal cultural heritage consultation requirements for proponents 2010 (OEH 2010b).

Aboriginal cultural heritage assessment for the project was designed to meet the SEARs. This included:

- Sufficient assessment of Aboriginal cultural heritage items and value of the site and surrounding area;
- Consultation with Aboriginal communities, including Deerubbin Local Aboriginal Land Council and registered Aboriginal stakeholders for the project, to assess impacts and develop mitigation measures; and
- Identification of mitigation and management measures.



 $Specific\ requirements\ of\ the\ SEARs\ in\ relation\ to\ Aboriginal\ heritage\ are\ outlined\ in\ the\ table\ below.$ 

Table 1. SEARs for Aboriginal heritage

Secretary's Environmental Assessment Requirements	Where addressed in this document				
12. Heritage – including:					
<ul> <li>an assessment of Aboriginal and non-Aboriginal cultural heritage items and values of the site and surrounding areas including sufficient detail that is proportional to the predicted impacts. The assessment is to be informed by any previous Aboriginal Cultural Heritage Assessment Report or other heritage assessment undertaken for the site or other projects in the surrounding area (if available), in accordance with the relevant Heritage NSW guidelines.</li> </ul>	Sections 1-7				
<ul> <li>justification for the level of consultation undertaken with interested stakeholders</li> </ul>	Sections 5 and 7				
<ul> <li>a description of any measures to avoid, mitigate, and/or manage any impacts.</li> </ul>	Sections 8, 9 and 10				



Figure 1. Study area location

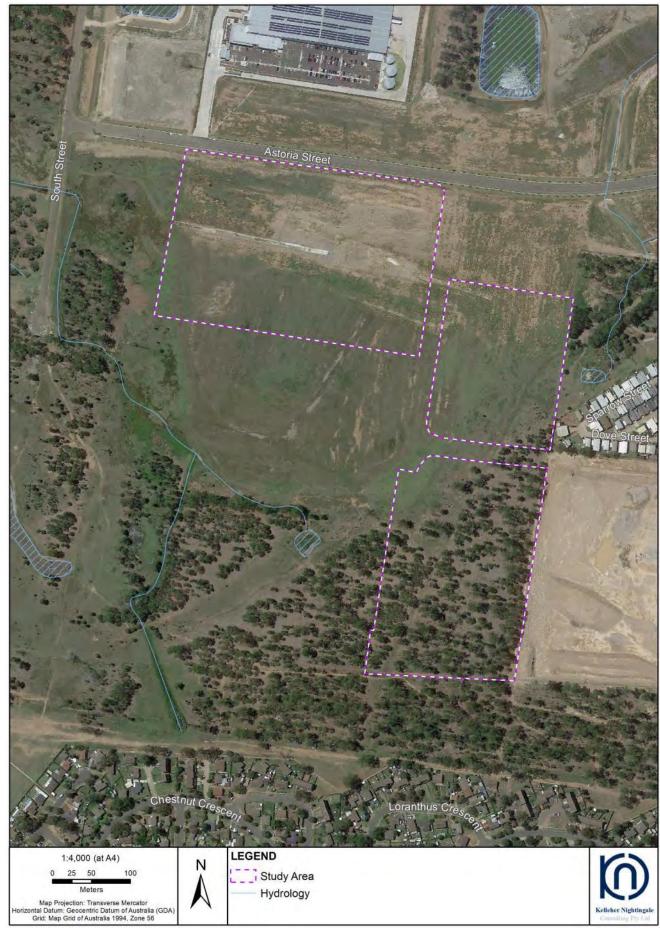


Figure 2. Detail of study area

#### 2 Environmental Context

# 2.1 Landform, geology and soils

The study area is located in the north west of the Cumberland Plain, a gently undulating and generally low-lying physiographic region of the Sydney Basin. The Sydney Basin is a large geological feature that stretches from Batemans Bay to Newcastle and west to Lithgow. The formation of the basin began between 300 to 250 million years ago when river deltas gradually replaced the ocean that had extended as far west as Lithgow (Pickett and Alder 1997). The oldest, Permian layers of the Sydney Basin consist of marine, alluvial and deltaic deposits that include shales and mudstone overlain by coal measures.

The underlying geology of the study area is entirely composed of Bringelly Shale (Rwb) (Figure 3). The Bringelly Shale Formation consists of shale, carbonaceous claystone, claystone, laminate, fine to medium-grained lithic sandstone, rare coal and tuff. Underlying geology of the study area was generally composed of unsuitable raw materials for the creation of stone artefacts. However, several sources of suitable raw material for artefact production have previously been identified in St Marys Formation and Rickabys Creek Gravel geologies which are present in the general region.

Soils across the study area derive from the Berkshire Park and Blacktown soil landscapes (Figure 3). The majority of the study area comprises Berkshire Park soils, which are characterised by weakly pedal orange heavy clays and clayey sands, often mottled. Iron nodules are common throughout the profile (Bannerman and Hazelton 1989). Solods, yellow Podzolic soils, red Podzolic soils, chocolate soils, structure plastic clays and structure clays are all present within the soil profile. Berkshire Park soils are susceptible to flooding and becoming waterlogged, as well as erosion if vegetation clearance has occurred. The residual Blacktown soil landscape is developed in situ on the slopes from underlying Bringelly Shale geology and is present within the southern portion of the study area. These soils consist of shallow to moderately deep hard-setting red, brown and yellow podzolic soils. Blacktown Soils are subject to minor erosion where surface vegetation is not maintained. The soil landscape is often close to water sources and associated resources without being within flooding areas. Aboriginal objects and archaeological sites may be present in the Berkshire Park and Blacktown soil landscapes but their context and stratigraphic integrity will be variably affected by disturbance through erosion.

The topography of the study area comprises the very gentle slopes descending north and east towards an ephemeral drainage tributary of Little Creek. Little Creek flows generally north into South Creek; a major watercourse which is located approximately 4.5 kilometres northwest of the study area.

# 2.2 Vegetation and land use history

The distribution of native vegetation within the study area has been affected by historic and contemporary European land use practices in the region. Prior to 1788, a mixture of native vegetation communities would have extended across the entirety of the Cumberland Plain with distribution determined by a combination of factors including soil, terrain and climate. Within the locality, areas of native vegetation are predominantly classified as Shale Gravel Transition Forest. Shale Gravel Transition Forest occurs in areas with shallow deposits of tertiary alluvium overlying shale or in areas of localised iron-indurated gravel. Shale Gravel Transition Forest is characterised by a canopy dominated by *Eucalyptus fibrosa* with *E. moluccana* and *E. tereticornis* occurring less frequently, a sparse shrub stratum typically of *Bursaria spinosa*, *Daviesia ulicifolia* and *Lissanthe strigose*, and a variety of forb species (NSW National Parks and Wildlife Service 2002).

Limited native vegetation remains within the current study area with scattered regrowth Shale Plains Woodland occurring in the southern portion of the study area. Shale Plain Woodlands mostly comprises *Eucalyptus moluccana* and *E. tereticornis* and are widely distributed across the Cumberland Plain; predominantly on soils derived from the underlying Wianamatta Shale geology and in areas containing Holocene alluvial deposits (NSW National Parks and Wildlife Service 2002).

Historic and contemporary land use practices have drastically altered the landscape within and surrounding the study area. The majority of the study area has been subject to agricultural land use and vegetation clearing and/or stripping activities. Aerial photography captured in 1977 demonstrates historic vegetation stripping activities related to the installation of several transmission line corridors across the study area. Further vegetation clearance appears to have since taken place overtime for a multitude of land use management purposes. A number of large dams have been constructed throughout the area within former creek channels, altering the area's hydrology and drainage patterns.

More recent land use disturbance in the locality is related to ongoing development and construction of the Marsden Park Industrial Precinct. Road construction, utilities installation, the creation of water and water related infrastructure and the construction of warehouse facilities immediately to the north and east have contributed to further alteration of the surrounding landscape.

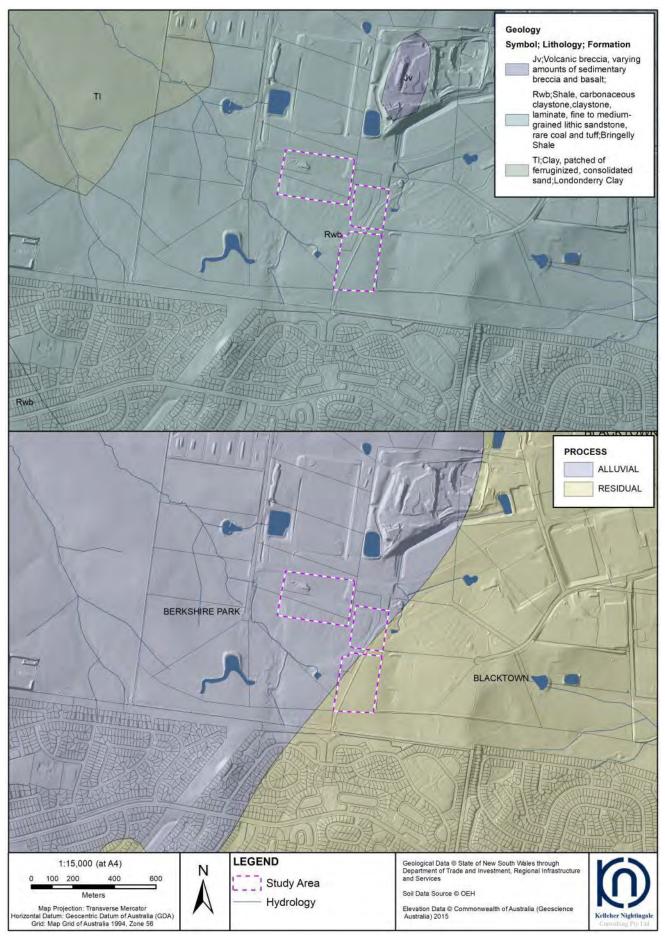


Figure 3. Geology and soil landscapes of the study area

# 3 Ethnohistoric context

Aboriginal people living throughout Australia at the time of European invasion belonged to a multitude of groups that spoke approximately 250 distinct languages and several hundred dialects (Walsh 1993: 1). Historical descriptions of the social organisation, culture and practices of Aboriginal people living in the Sydney region at the time of European invasion is fragmentary due to the generalised nature of early European accounts which provide vague and at times contradictory information. It should also be noted that the early British accounts are observations of Aboriginal people living in the Sydney region during the late 18th and 19th centuries and should not be used to infer the cultural practices of Aboriginal people living in the preceding millennia which are highly unlikely to have been static. The study area lies within a landscape which was important to, and intensively used by, past Aboriginal peoples (Attenbrow 2002).

The diversity of the groups living in the Sydney region was apparent to the British from their earliest interactions despite having arrived with an almost total ignorance of the land and its people. Watkin Tench, a captain-lieutenant of the marines, was part of several expeditions undertaken to explore the wider Sydney area. Tench documented that on one expedition, two Aboriginal men who had been brought from the coast as guides were unfamiliar with the area west of Rose Hill (Parramatta) (Tench 1793:117-118) and that when the men conversed with an Aboriginal man further inland "they conversed on a par and understood each other perfectly, yet they spoke different dialects of the same language; many of the most common and necessary words used in life bearing no similitude, and others being slightly different" (Tench 1793:122). David Collins, deputy judge advocate and lieutenant-governor of the colony, noted that the Aboriginal people living inland, who he referred to as the 'woods tribes', and the Aboriginal people living along the coast had different dialects, songs, dances, subsistence and some implements (Collins 1798: 557-589). Collins noted that the inland groups had spears inlaid with stones instead of oyster shell and used a type of mesh unlike the nets of the people living along the coast (Collins 1798: 589).

Tench (1793:230) noted that the inland groups 'depend but little on fish, as the river yields only millets and that their principal support is derived from small animals which they kill and some roots (a species of wild yam chiefly) which they dig out of the earth'. Along the rivers and larger creeks, bandicoots and wallabies were caught in traps and snares, while birds were snared using decoys (Collins 1798: 555; Tench 1793). The open woodland of the Cumberland Plain would have played host to possums and gliders and these likely formed a major component of the diet. These were hunted in a number of ways, including smoking out the animal by lighting a fire in the base of a hollow tree, burning large tracts of land and gathering the stranded animals, as well as cutting toe-holds in trees and climbing up to reach them (Kohen 1993:10; Tench 1793:82). Berries, Banksia flowers and wild honey were also recorded as foods of the local inhabitants (Collins 1798 [Kohen 1985:9]). A particularly important plant food was the Burrawong (Macrozamia communis), which provided a nutritious nut that was pounded and soaked in running water to leach out toxins before the flour-like extract was made into small cakes and baked over a fire (Kohen 1993:8).

The arrival of the British in 1788 began a cataclysmic series of events which radically changed the lifestyle of Aboriginal people on the Cumberland Plain. Contact with introduced diseases, such as smallpox, drastically altered the size and structure of the Aboriginal population, the expansion of settlements and establishment of farmland subsumed the traditional areas used to meet subsistence needs and successive government policies were introduced to make Aboriginal people adopt European culture, religion and lifestyle (Attenbrow 2002; Brook and Kohen 1991). British observations from the late 18th and early 19th centuries did not make reference to the Aboriginal name of the language that the 'woods tribes' they encountered spoke and it was only in the late 19th Century that the name Darug (also referred to as Daruk, Dharuk, Dharook, and Dharug) was used to refer to the language of the traditional inhabitants of the Cumberland Plain (Attenbrow 2002:33). In the early twentieth century, anthropologist/linguist R H Matthews noted that "the Dharuk speaking people adjoined the Thurrawal on the north, extending along the coast to the Hawkesbury River, and inland to what are now Windsor, Penrith, Campbelltown, and intervening towns" (Matthews 1901:155 [in Attenbrow 2002: 32]).

Further east of the study area is the Colebee and Nurragingy land grant, a thirty acre area granted to two Darug men named Colebee and Nurragingy by Governor Macquarie in 1816. It represents the first land grant to an Aboriginal person after colonisation and is a site of exceptional historical, social and Aboriginal cultural heritage significance. The land grant was a reward for the two men's assistance as guides in punitive expeditions sent by Macquarie to capture or kill Aboriginal people who had been involved in skirmishes with the British. The expansion of British settlement along the Nepean and Hawkesbury Rivers in the early nineteenth century and a period of drought during 1814-1816 saw another period of intensive conflict involving a series of raids and retaliatory killings between Aboriginal groups and settlers at Bringelly, Appin and along the Nepean and Hawkesbury Rivers. Many officials, including the then Governor Lachlan Macquarie, often recognised that these conflicts were initiated by the settlers; however, in 1816, Macquarie issued a proclamation that banned Aboriginal people from carrying weapons, banned traditional customs relating to punishment and limited the number of Aboriginal people allowed to gather within the colony (Campbell 1816: 1). The proclamation also stated Macquarie's intention to change how the Aboriginal people of the Cumberland Plains lived and encourage them to adopt the lifestyle of the British (Campbell 1816: 1).

In addition, punitive expeditions were dispatched to capture or kill those Aboriginal people involved in the conflict (Brook and Kohen 1991:23). Three groups of soldiers were sent from Sydney to Cowpastures, the Airds and Appin district and to Parramatta, Windsor, the Grose and the banks of the Nepean respectively (Brook and Kohen 1991: 23). Several Aboriginal guides took part in the punitive expeditions, including Colebee and Nurragingy. Brook and Kohen (1991: 34) note that of the three punitive expedition parties sent out, the two with Aboriginal guides did not make any significant contact with Aboriginal groups, whereas the one party without Aboriginal guides did, leading to the suggestion that the Aboriginal guides were 'cunningly and successfully shielding their "wild" compatriots'. Nevertheless, Colebee and Nurragingy were invited to select a parcel of land as a reward for their assistance.

The actual location of the grant within the District of Bathurst was selected by Colebee and Nurragingy. Brook and Kohen (1991: 44-45) suggest that they chose this location based on its proximity to the abundant raw materials located at Plumpton Ridge and proximity to the important watercourses of Eastern Creek and Bells Creek. These features would have been significant to local Aboriginal groups at the time (Brook and Kohen 1991). The grant was registered in 1819 with only Colebee's name (Brook and Kohen 1991: 38). Colebee did not stay long on the grant, instead becoming a constable at Windsor in 1822, before marrying an Aboriginal girl called Kitty from the Black Town. The 'Colebee and Nurragingy Land Grant' is listed on the State Heritage Register (SHI 01877) and has been recorded as a Potential Archaeological Deposit (PAD) on the AHIMS database.

Located opposite the Colebee and Nurragingy Land Grant heritage item is the Blacktown Native Institution site. The site is located 2.5 kilometres south east of the current study area and is of historical, social and cultural significance to the contemporary Aboriginal community. The Native Institution was established by Governor Macquarie in the early years of the nineteenth century as a residential school for Aboriginal children and Reserve. In addition to the schoolhouse, residence, kitchen and stables, the Reserve had both a garden and a stockyard with 22 head of cattle. Water was gathered from Bells Creek, (then called Gidley Chain of Ponds) which bisected the area, the only supply for all fresh water needs. The site was one of the earliest schools for Aboriginal children in the colony, operating between 1823 and 1829. From 1822 onwards, historical records also indicate that a number of Aboriginal people were present in the area, and were camping along Bells Creek in order to remain near their children who were in the Institution (Bickford 1981:15). The site is especially important as a place of early and sustained cross-cultural engagement between the British and Aboriginal people, particularly in the context of educational and missionary programs reflecting the British desire to 'civilise' the Indigenous people. The Blacktown Native Institution is a registered contact/mission site listed on the NSW State Heritage Register (SHI 01866).

The value of the Marsden Park area and surrounds to both the past and the present Aboriginal community is underscored by the presence of two important places of post-European settlement history: the Colebee and Nurragingy Land Grant and the Blacktown Native Institution. Aboriginal culture endures to this day across the Cumberland Plain and has influenced many aspects of Australian culture including in the names of animals, localities, creeks and rivers (Walsh 1993). Members of the contemporary Aboriginal community continue to experience connection with the area through cultural and family associations.

# 4 Archaeological context

# 4.1 Database searches (AHIMS) and known information sources

#### 4.1.1. AHIMS web services

The Aboriginal Heritage Information Management System (AHIMS) is a database operated by Heritage NSW and regulated under section 90Q of the *National Parks and Wildlife Act 1974*. AHIMS contains information and records pertaining to registered Aboriginal archaeological sites (Aboriginal objects, as defined under the Act) and declared Aboriginal places (as defined under the Act) in NSW.

A search of AHIMS was conducted on 21 July 2020 to identify registered (known) Aboriginal sites or declared Aboriginal places within or adjacent to the study area (AHIMS Client Service ID: 521834). The AHIMS search results are attached as Appendix C.

The AHIMS Web Service database search was conducted within the following coordinates (GDA, Zone 56):

Eastings: 297387 – 299192 Northings: 6265766 – 6267406

Buffer: 0 metres (coordinates included a buffer around the study area)

The AHIMS search results showed:

32	Aboriginal sites are recorded in or near the above location
0	Aboriginal places have been declared in or near the above location

The distribution of recorded Aboriginal sites within these coordinates is shown on Figure 4. The frequencies of site types within the AHIMS database search area are listed in Table 2.

Table 2. Site features and context from AHIMS database search

Site Context	Site Feature	Number	Frequency (%)
Onon	Artefact	31	96.9
Open	Potential Archaeological Deposit	1	3.1
Total		32	100

AHIMS records and site information show that there are two previously registered sites (AHIMS 45-5-3748 & 45-5-3749) located within the study area. Seven registered AHIMS sites have also been destroyed according to the AHIMS search results.

# 4.1.2. Other heritage registers and databases

A search was undertaken of the following statutory and non-statutory heritage registers for Aboriginal heritage items:

- Blacktown Local Environment Plan (LEP) 2015
- Sydney Water Heritage Register
- Roads and Maritime Heritage Register
- State Heritage Register and State Heritage Inventory
- Commonwealth Heritage List
- National Heritage List
- Australian Heritage Database
- Australian Heritage Places Inventory and
- Register of the National Estate note the Register was closed in 2007 and is no longer a statutory list. It is maintained on a non-statutory basis as a publicly available archive and educational resource.

No Aboriginal archaeological sites or Aboriginal heritage items were recorded on these databases within the study area.





Figure 4. AHIMS search results

# 4.2 Previous archaeological investigations

Several Aboriginal heritage assessments have been undertaken for large scale development projects and precinct planning in Marsden Park and neighbouring suburbs. Previous archaeological investigations have been undertaken bordering and within the current study area. The pertinent studies as they relate to the study area are discussed in this chapter.

#### **Marsden Park Industrial Precinct**

The current study area has been previously assessed as part of a comprehensive Aboriginal heritage assessment undertaken for the Marsden Park Industrial Precinct (MPIP) in 2009. This existing Aboriginal cultural heritage assessment was completed in accordance with the Growth Centres Commission (GCC) *Precinct assessment method and Protocol for Aboriginal heritage assessment* and *Aboriginal community consultation and stakeholder involvement*. Following completion of the GCC assessment, a number of Aboriginal Heritage Impact Permits (AHIPs) issued under Section 90 of the National Parks and Wildlife Act 1979 have since been granted for various developments within the Marsden Park Industrial Precinct, resulting in the removal of some previously identified Aboriginal archaeological sites in proximity to the current study area.

The MPIP assessment area was generally bound by South Street to the north and west, Bells Creek to the east and the suburbs of Bidwell and Hassall Grove to the south. The area also incorporated some smaller land parcels to the east of Bells Creek and west of South Street. The assessment included the entirety of the current study area.

The assessment encompassed an archaeological survey and desktop review of previous investigations, the environmental context and ethno-historical background of the area. A full and detailed Aboriginal community consultation program was also completed as part of the GCC assessment. A total of 63 archaeological sites, one area of high cultural significance (Colebee and Nurragingy's Land Grant) and four potential archaeological deposits were identified within the assessment area. Sites identified generally comprised artefact scatters and isolated finds. Artefacts types identified at these sites were predominantly proximal, medial and distal flakes and flaked pieces. Several cores were also recorded. The predominant artefact raw material was silcrete, with occasional occurrences of chert, tuff, quartz, petrified wood and other raw materials. Naturally fractured silcrete was also observed across the assessment area and at site locations.

Four areas of PAD were assessed as demonstrating potential for subsurface archaeological deposits due to: their relatively stable soil profiles, relative elevation, moderate slope, proximity to water and proximity to known archaeological sites. PAD areas were assessed as demonstrating moderate archaeological potential. Analysis of the spatial distribution of the artefact scatters determined that 31 of the archaeological sites were located within 12 distinct concentrations with lower levels of disturbance and moderate to high heritage significance. The remaining 32 archaeological sites were found in disturbed contexts and were assessed as having low heritage significance.

Two Aboriginal archaeological sites identified as a result of the MPIP assessment were identified within the current study area. These include sites MPIP 17 (AHIMS 45-5-3748) and MPIP 18 (AHIMS 45-5-3749). Site MPIP 17 consisted of a low density artefact scatter containing two red silcrete flaked pieces identified on a gentle slope landform along the southern boundary of the current study area. Site MPIP 18 consisted of an artefact scatter containing six red and yellow silcrete flaked pieces and two complete flakes recorded along the south western boundary of the current study area. The site was recorded across a gentle slope landform. Both Aboriginal sites were identified as displaying some (low) archaeological significance based upon site frequency and disturbance assessment. The MPIP assessment recommended that a Section 90 Consent should be obtained for sites of some (Low) archaeological significance prior to the commencement of any works affecting these sites.

### South Street, Marsden Park

An archaeological survey was undertaken for Lots 37 to 42, DP 262886 at South Street, Marsden Park in 1996 (AMBS 1996). The assessment included lands bordering the southwestern portion of the current study area. The surveyed area encompassed approximately 20 hectares located on the western side and southern end of South Street. The survey identified a total of seven Aboriginal archaeological sites comprising four low density surface artefact scatters and three isolated artefacts. One site of low archaeological significance SROS5; (AHIMS 45-5-2384) recorded during the survey was located within proximity to the western boundary of the current study area. The Aboriginal sites were predominantly located on crest landforms and within the northern portion of the assessment area in the vicinity of the unnamed northeast flowing creek. The majority of artefacts identified were made from silcrete, while one chert broken flake was also recorded. The artefact assemblage predominantly consisted of flakes, broken flakes and flaked pieces with one scraper and one backed blade also identified. Significance assessment identified that four of the seven sites were of low archaeological significance and did not require further archaeological assessment. Three sites were determined to have potential for subsurface archaeological deposit with a program of subsurface investigation recommended prior to any impacts.



#### Sydney Business Park - Marsden Park Industrial Stage 3.01

Archaeological assessment was undertaken for lands known as Marsden Park Industrial Stage 3.01 within the Sydney Business Park at Marsden Park (KNC 2015). The assessment included the preparation of a CHAR, a process of Aboriginal community consultation and a limited test excavation program. The assessment overlaps a portion of the current study area Testing was undertaken at site MPIP23 (includes MPIP 23A) (AHIMS 45-5-3756), a previously identified isolated find with PAD. Testing was undertaken to determine the nature and extent of the deposit at this site location. Three artefacts were recovered from 23, 50x50 centimetre test squares excavated across the site. The artefacts were recovered from three separate squares and consisted of one silcrete proximal flake fragment, one tuff proximal flake fragment and one tuff medial flake fragment. The site was found to be disturbed, with poor soil integrity and impacts from previous easement construction and maintenance activities, agricultural practice and natural erosional processes present.

The assessment identified three valid Aboriginal archaeological sites (comprising five AHIMS registrations) within the proposed works area. The sites consisted of MPIP22 (includes MPIP22A) (AHIMS 45-5-3754 & 45-5-3755), MPIP23 (includes MPIP23A) and MP 12 Marsden Park (AHIMS45-5-2040). Three additional AHIMS registered sites had been destroyed by previous quarrying works and were listed as destroyed on the AHIMS database. Significance assessment determined that sites MPIP 23 (includes MPI23A) and MP 12 Marsden Park were of low archaeological significance, with no further archaeological mitigation required. Site MPIP22 (includes MPIP 22A) was determined to have moderate archaeological potential, with mitigation measures including archaeological salvage excavation prior to the commencement of works. AHIP #C0001495 was granted for the project on 12 November 2015 and covers a portion of the current study area (see Figure 1). MPIP22 (includes MPIP 22A) was subsequently subject to salvage works which recovered a low density, disturbed subsurface archaeological deposit. All five AHIMS registrations have since been destroyed on the AHIMS database in accordance with AHIP conditions.

#### Marsden Park Industrial Precinct S94 Stormwater Infrastructure Works, Package 1

Eco Logical Australia Pty Ltd undertook archaeological investigations for proposed stormwater infrastructure related to the Marsden Park Industrial Precinct and included lands adjacent to the western and southern portions of the study area. The assessment included archaeological field survey, a test excavation program, a process of community consultation and the preparation of a CHAR (Eco Logical Australia Pty Ltd 2017). Archaeological survey undertaken for the project identified two newly recorded low density artefact scatter sites: Glengarrie Rd 1 (AHIMS 45-5-4900) and South St 1 (AHIMS 45-5-4904). Newly recorded site South St 1 was determined to be located outside of the assessment area. Archaeological survey revealed that the majority of the assessment corridor contained low to nil archaeological potential and had been subject to disturbance by current land use activities related to dam construction, oval equestrian training tracks, tree clearance, bulk earthworks activities, grading and levelling activities and road culvert construction.

Subsequent archaeological test excavation was undertaken across the project area and encompassed locations associated with four previously identified sites (three previously identified surface scatters and one registered PAD area). The testing program identified archaeological deposit at four site locations. A total of 102 artefacts were identified across 59, 50x 50cm test squares excavated across the project area. Artefacts consisted primarily of flakes and angular fragments (30%). Smaller numbers of split flakes, flake fragments, cores and core fragments were also recorded. One silcrete retouched flake and one medial flake fragment displaying evidence of usewear were among the artefacts recovered. The primary raw material type identified was silcrete (n=74), followed by lesser numbers of quartz (n=16) and tuff (n=12). Site Glengarrie Rd 1 (AHIMS 45-5-4900) was the highest density site, with 45 artefacts recovered. The site was located within the northern portion of the project corridor and was found to contain an intact archaeological deposit revealing the presence of a probable knapping event. Test excavation at site MPIP 21 (includes MPIP 21A) (AHIMS 45-5-3752 & 45-5-3753) identified a subsurface archaeological deposit containing 40 artefacts; 23 of which were recovered from one test square and surrounding expansion test squares. Both Glengarrie Rd 1 and MPIP 21 (includes MPIP 21A) were determined to have moderate archaeological significance with further investigations likely to contribute to an understanding of the Aboriginal landscape in the region. The remaining four valid sites (including nearby site MPIP PAD 3 (AHIMS 45-5-4620)) within the assessment area were found to be of low archaeological significance; having been subject to severe disturbance. These sites contained low to nil further archaeological potential.

#### Lot 2 DP1233067 and Lot 37 DP 262886 at 38 South Street, Marsden Park

OzArk Environment & Heritage recently undertook Aboriginal cultural heritage assessment of Lot 2 DP1233067 and Lot 37 DP 262886 at 38 South Street, Marsden Park (OzArk Environment & Heritage 2019). The project area borders the current study area immediately to the south and west. The assessment included a due diligence assessment with visual inspection, a review of previous archaeological investigations within the assessment area, a process of community consultation and significance and impact assessment of the proposed works formulated within a CHAR.

A total of five previously recorded Aboriginal archaeological sites (comprising six AHIMS registrations) were identified within the assessment area. These comprised AHIMS sites: South St 1 (AHIMS 45-5-4904), SROS5 (AHIMS 45-5-2384), MPIP PAD 3 (AHIMS 45-5-4620), MPIP 21 (includes MPIP 21A) (AHIMS 45-5-3752 & 45-5-3753) and MPIP 20 (AHIMS 45-5-3751).



The overall archaeological assessment confirmed the findings of previous studies (AMBS 1996; KNC 2009; Eco Logical 2017a) undertaken within the assessment area. One additional isolated artefact was identified during an Aboriginal Focus Group (AFG) meeting held onsite during the course of the project. The site was subsequently registered on AHIMS as a silcrete flaked piece (AHIMS 45-5-5217) and included in the proceeding assessment.

The assessment area was found to have been subject to moderate to high levels of disturbance consistent with impacts related to agricultural land use practices. Significance assessment confirmed that five of the six sites were of low archaeological significance, representing commonly occurring site types within the local area, with little potential for further intact subsurface deposits. Community consultation undertaken for the project determined that all sites within the assessment area were identified as having high social and cultural value for the contemporary Aboriginal community given their locations between Bells Creek and Eastern Creek. MPIP 21 (includes MPIP 21A) was confirmed to display moderate archaeological significance, with further archaeological salvage likely to contribute a greater understanding of Aboriginal landscape use in the region.

It was determined that five of the six sites would be impacted by the proposal; MPIP 21 (includes MPIP 21A) was not to be impacted, based upon its location within E2 zoned lands. Recommended mitigation measures for impacted sites included surface collection at AHIMS sites 45-5-4904, 45-5-5217, 45-52384 and 45-5-4620, followed by artefact reburial within E2 zoned lands within the assessment area. No further archaeological assessment or management and mitigations measures were recommended for MPIP PAD 3 (AHIMS 45-5-4620). A further five sites within the overall project assessment area (not subject to testing) were included within significance assessment: including three sites covered under existing AHIPs (#C0002345 and #C0001495). In total, two of the sites were identified as being of moderate archaeological significance MPIP 21A (AHIMS 45-5-3753) and Glengarrie Rd 1 (AHIMS 45-5-4900) and requiring further archaeological assessment in the form of salvage excavation. The remaining sites were determined to be of low archaeological significance with no further archaeological mitigation required. It was recommended that an AHIP be sought for all valid sites located within the project area not covered under existing AHIPs.

### 4.3 Aboriginal archaeological survey 2020 - Stage 3 Facilities Sydney Business Park, Marsden Park

A full archaeological survey of the Stage 3 Sydney Business Park project area was undertaken in August 2020. The survey was completed with the Deerubbin Local Aboriginal Land Council. The 2020 survey confirmed the 2009 Marsden Park Industrial Precinct assessment.

Background research identified two previously registered Aboriginal archaeological sites within the current study area: MPIP 17 (AHIMS 45-5-3748) and MPIP 18 (AHIMS 45-5-3749). Both sites were originally recorded as a result of the Marsden Park Industrial Precinct assessment and comprised low density surface artefact scatters. The study area was inspected on 5 August 2020 by Mark Rawson (KNC) and Steve Randall (Deerubbin Local Aboriginal Land Council). The study area was divided into three survey units based upon the proposed works layout and study area location. The surveyed area comprised the gentle slope landform descending towards an ephemeral drainage line located to the south and west.

Survey commenced in the north western portion of the study area within Survey Unit 1. This survey unit comprised lands located immediately south of Astoria Street. The large block had been subject to extensive land use disturbance (see Figure 5). Several large mounds of redeposited soil associated with earth moving activities could be seen across the survey unit. Artificial drainage had also been constructed through the central portion of Survey Unit 1. The southern portion of Survey Unit 1 contained evidence of old furrows, previous cattle grazing and former earthmoving activities related to overburden from former quarrying activities (see Figure 5). Vegetation across the survey unit had been cleared, with only low grasses remaining. The site location for destroyed AHIMS site MPIP 22 (included MPIP 22A) was revisited and assessed. The site was confirmed to have been destroyed by previous AHIP approved project works. Ground surface exposure within the survey unit varied, with the majority of the survey unit covered in low weeds and grasses. Increased visibility and exposure was present in stripped areas or areas displaying high levels of visible ground surface disturbance. No new Aboriginal objects or areas of archaeological potential were identified within the highly modified Survey Unit 1.



Plate 1. View south-west. Photo shows artificial drainage across the large block in Survey Unit 1. Note cattle grazing in background.



Plate 2. Facing west in southern portion of Survey Unit 1. Note furrows and uneven ground surface from previous landuse activities.



Plate 3. Facing south east. Photo shows previous earthmoving activities in Survey Unit 2.



Plate 4. View to north. From top former railway mound in Survey Unit 2.

Survey Unit 2 comprised a smaller block located south of Astoria Road and west of Sparrow Street. The entirety of the lot had been subject to vegetation clearance, with only high grasses remaining. The northern half of the survey unit had been subject to extensive disturbance with evidence of earthworks activities and large mounds of redeposited soil present. Surface exposures were carefully inspected for any evidence of Aboriginal objects, however none were identified. The southern half of the survey unit contained a former railway embankment and was covered in high grasses. Ground surface visibility within this part of the survey unit was very low to zero. Evidence of uneven ground surfaces was present in the form of a large drainage channel ditch present across the central part of the survey unit (see Figure 5). The entirety of Survey Unit 2 was found to be extensively disturbed. No Aboriginal archaeological sites, objects or areas of potential archaeological deposit were identified within this part of the study area.

The survey team continued south in Survey Unit 3 which sloped gently towards the southwest of the study area. Survey Unit 3 was characterised by a large block containing regrowth vegetation in the form of Ironbark and Grey Box Eucalypts, low grass cover and small shrubs. Ground surface visibility was impeded by vegetation cover. Some areas of exposure were present in erosion scours and along vehicle access tracks. Visibility on exposures along a vehicle access track running along the eastern boundary of the survey unit ranged from 20% to 70% and was impeded by leaf litter and fine ironstone gravels. Visible surface disturbance was limited within Survey Unit 3.



Plate 5. Facing north from eastern boundary in Survey Unit 3. Example of surface exposure on access track.



Plate 6. Facing north. View along risen former railway embankment dissecting Survey unit 3.

The central portion of the survey unit was dissected by the southwest to northeast running former railway embankment. Survey continued within the remaining portion of the study area located in Survey Unit 3, west of the former railway track. The site location for registered site MPIP 18 (AHIMS 45-5-3749) was revisited during the survey. The artefacts recorded during the original site recording could not be relocated.

Two additional artefacts were recorded at the site location during the current survey. The artefacts were recorded approximately eight metres apart on an exposure present along a section of the vehicle access track bordering the western boundary of the current study area. Visibility on the exposure was approximately 50% with a background of leaf litter and fine ironstone gravels present. The newly recorded artefacts consisted of one pink red silcrete elongated core containing four negative flake scars and one pale pink silcrete flake with evidence of retouching on the right ventral surface and a scarred platform. The site was determined to retain low potential for further subsurface archaeological deposit, consistent with its original site recording.

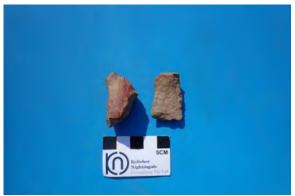


Plate 7. Newly recorded silcrete artefacts identified at registered site MPIP 18 (AHIMS 45-5-3749).



Plate 8. Facing north. View along western boundary in Survey Unit 3 showing newly recorded artefact location at MPIP 18 (AHIMS 45-5-3749) within study area.

Survey continued south. The site location for MPIP 17 was revisited by the survey team. The site was previously recorded along a vehicle access track exposure present along the southern boundary of the study area. Field survey did not identify any previously or newly recorded artefacts at the site location. Assessment of the site area confirmed that MPIP 17 displayed low archaeological potential for subsurface archaeological deposit, consistent with its original site recording.



Plate 9. Facing west. Site location of MPIP 17 (AHIMS 45-5-3748). Note generally low visibility on surface exposure.



Plate 10. Facing east at MPIP 17 (AHIMS 45-5-3748). Photo demonstrates typical regrowth vegetation cover present within Survey Unit 3.

Field survey of the study area confirmed that the majority of the study area had been subject to extensive land use disturbance related to former railway embankment construction, overburden deposits from former quarrying activities, bulk earthworks and drainage related infrastructure (Figure 5). Significant portions of the study area had been subject to extensive vegetation stripping, clearance and revegetation and were actively being utilised for cattle grazing at the time of survey. As a result of historic and contemporary land use practices, the likelihood of intact deposits occurring across the study area was considered to be low.

The results from the 2020 assessment were consistent with the existing 2009 cultural heritage assessment results.

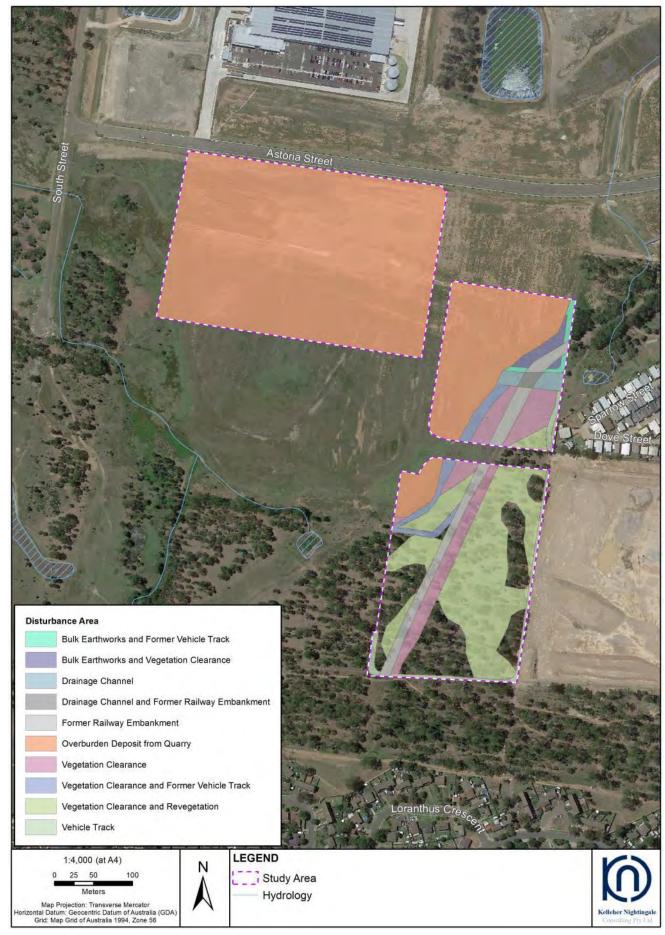


Figure 5. Disturbance map of the study area

#### 5 Consultation Process

#### 5.1 Stakeholder identification and consultation

The aim of consultation is to integrate cultural and archaeological knowledge and ensure registered stakeholders have information to make decisions on Aboriginal cultural heritage. For the preparation of this CHAR, consultation with Aboriginal people has been undertaken in accordance with the Heritage NSW Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (OEH 2010a) and the requirements of Clause 60 of the National Parks and Wildlife Regulation 2019. Consultation records are attached as Appendix D. The formal consultation process has included:

- Notification of Aboriginal persons, including register of native title determinations search and government agency notification letters;
- advertising for registered stakeholders in local print media (Appendix A);
- notification of closing date for registration (31/07/2020)
- record of registration of interest (Heritage NSW and DLALC notified 3/08/2020);
- provision of project-specific information (17/06/2020 and 31/07/2020);
- provision of assessment methodology for review (28 day review period ending on 28/08/2020)
- invitation to advise on Aboriginal cultural value of the study area;
- provision of draft CHAR for review (28 day review period ending on 28/09/2020); and
- ongoing consultation with the local Aboriginal community including regular project updates.

# 5.2 Registration of interest

Aboriginal people who hold knowledge relevant to determining the cultural heritage significance of Aboriginal objects and Aboriginal places in the study area were invited to register an interest in a process of community consultation. Investigations for the current project have included consultation with Aboriginal community individuals and groups as listed in Table 1\*.

Table 3. Registered Aboriginal Stakeholders\*

Group / Individual	Representative / Contact
Deerubbin Local Aboriginal Land Council	CEO
A1 Indigenous Services	Carolyn Hickey
Amanda Hickey Cultural Services	Amanda DeZwart
Barraby Cultural Services	Lee Field
Butucarbin Aboriginal Corporation	Lowanna Gibson
Darug Custodian Aboriginal Corporation	Justine Coplin
Dhinawan Culture and Heritage Pty Ltd	Stephen Fields
Didge Ngunawal Clan	Paul Boyd & Lilly Carroll
Freeman & Marx Pty Ltd	Clive Freeman
Kamilaroi Yankuntjatjara Working Group	Phil Khan
Merrigarn	Shaun Carroll
Muragadi Heritage Indigenous Corporation	Jesse Johnson
Murra Bidgee Mullangari Aboriginal Corporation	Ryan Johnson
Registered Aboriginal Stakeholder	Details Withheld
Registered Aboriginal Stakeholder	Details Withheld
Tocomwall	Scott Franks
Waawaar Awaaa Aboriginal Corporation	Rodney Gunther
Wailwan Aboriginal Group	Phil Boney
Warragil Cultural Services	Aaron Slater



Group / Individual	Representative / Contact
Widescope Indigenous Group	Steven Hickey
Wurrumay Pty Ltd	Vicky Slater
Yulay Cultural Services	Arika Jalomaki
Yurrandaali Pty Ltd	Bo Field

<sup>\*</sup>two additional Aboriginal stakeholder has registered for the project but has chosen to withhold their details in accordance with item 4.1.5 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (OEH 2010b).

#### 5.3 Consultation regarding the land and proposed activity

Following on from Stage 1 of the consultation process undertaken by KNC (stakeholder identification and registration), project-specific consultation was undertaken. Information regarding the proposed development was provided to registered Aboriginal stakeholder groups in a letter dated 31/07/2020. Information included an outline of the proposal, location of the study area and an invitation to consult during the assessment.

Stakeholders were also provided with the proposed assessment methodology for the Cultural Heritage Assessment Report, and invited to review and provide feedback (review period of 28 days, closing on 28/08/2020). An invitation was extended for Aboriginal cultural knowledge holders and stakeholders to provide comments on the proposed cultural heritage assessment methodology, including any protocols regarding the gathering of information and any matters such as issues/areas of cultural significance that might affect, inform or refine the assessment methodology.

# 5.4 Stakeholder responses to the proposed assessment methodology for the Cultural Heritage Assessment Report

Formal responses to the proposed assessment methodology were received from A1 Indigenous Services (A1), Barraby Cultural Services (BCS), Didge Ngunawal Clan (DNC), Kamilaroi Yunkuntjatjara Working Group (KYWG), Murra Bidgee Mullangari Aboriginal Corporation (MBMAC), Muragadi Heritage Indigenous Corporation (MHIC), Wailwan Aboriginal Group (WAG), Yurrandaali Cultural Services and Yulay Cultural Services. Responses generally expressed support and did not result in any changes to the assessment methodology.

A1 stated that they had reviewed and supported the project information and proposed assessment methodology provided. A1 expressed interest in being involved in any fieldwork undertaken for the project (email dated 11/08/2020).

BCS stated that they supported the methodology for the project (email dated 4/08/2020).

DNC expressed that they agreed with the proposed assessment methodology (email dated 1/08/2020).

KYWG expressed that they had read the proposed assessment methodology and noted that the area was highly significant to Aboriginal people due to its general proximity to Bells Creek (email dated 24/082020).

MBMAC read the project information and methodology letter for the project. MBMAC endorsed the proposed assessment methodology (email dated 5/08/2020).

MHIC stated that they had read the project information and methodology letter for the Sydney Business Park Stage 3 Marsden Park project. They endorsed the proposed assessment methodology (email dated 6/08/2020).

WAG indicated that they had read the methodology for the project and added that they did not have any issues with the project or the proposed assessment methodology (email dated 2/08/2020).

Yulay Cultural Services supported the proposed assessment methodology for the project (email dated 27/08/2020).

Yurrandaali Cultural Services supported the proposed assessment methodology for the project (email dated 6/08/2020).

#### 5.5 Review of draft CHAR

The draft CHAR was provided to stakeholders for a 28 day review and comment period (letters dated 31/08/2020). Stakeholders were invited to comment on the Aboriginal cultural significance of the study area and the identified sites, along with the management recommendations presented in the report. Formal responses were received from A1



DCAC, DNC, MBMAC and WAG. Comments and information received from stakeholders during this period are attached in full in Appendix B and summarised below.

A1 indicated that they had reviewed the draft CHAR and supported the recommendations (email dated 6/09/2020).

DCAC expressed overall support for the project and reiterated their connection to and knowledge of the study area (email and letter dated 3/09/2020).

DNC indicated general support for the project (email dated 31/08/2020).

KYWG reiterated that the area was of high significance for his group. They noted a spiritual attachment to the area guided by the knowledge that their people had camped in the area. KYWG agreed that salvage excavation was not warranted for the sites located within the study area and supported ongoing management of the sites which would involve both archaeologists and Aboriginal representatives (surface artefact collection undertaken with registered Aboriginal stakeholders). KYWG also expressed support for the recommended management measures for the non-impacted portion of MPIP 18 (late response received by email dated 29/09/2020).

MBMAC stated that they had read the draft CHAR for the project and endorsed the recommendations made (email dated 3/09/2020).

WAG supported the heritage assessment undertaken by KNC, indicating that they had no additional comments to add and that they were happy with the Aboriginal cultural heritage assessment undertaken for the project (email dated 1/09/2020).

# 5.6 Aboriginal cultural values

It has been identified during the consultation process that the wider study area has cultural heritage value to the local Aboriginal community. Some of the Aboriginal cultural heritage values expressed by stakeholders include:

- strong association with the land and the local area
- responsibility to look after the land, including the heritage sites, plants and animals, creeks and the land itself
- scarred trees
- artefact sites and landscape features
- creek lines, especially South Creek and Bells Creek, their tributaries and their floodplains
- indigenous plants and animals

Additional cultural values for the Marsden Park area have been provided by stakeholders throughout the registration of interest period and consultation process.

A1 stated that they held cultural knowledge of, and maintained a cultural connection to the study area (email dated 28/07/2020).

Amanda Hickey Cultural Services (AHCS) expressed that they held cultural knowledge relevant to determining the significance of Aboriginal objects and areas within the project area (email dated 3/08/2020).

DCAC expressed that their group held a vast knowledge of the Marsden Park area. They noted the significance of the area to Darug people, based upon the connection of sites and continued occupation of the area (email/letter dated 27/07/2020).

One stakeholder who chose to withheld their details in accordance with item 4.1.5 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (OEH 2010b) has expressed strong connection to the area but has chosen to withhold the specifics from publication (letter dated 17/07/2020).

One additional stakeholder who chose to withheld their details in accordance with item 4.1.5 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (OEH 2010b) has expressed strong connection to the area but has chosen to withhold the specifics from publication (letter dated 17/07/2020).

Waawaar Awaaa Aboriginal Corporation (WAAC) stated that their organisation comprised Aboriginal people who had an interest in the study area. Their members also held a cultural connection & knowledge relevant to the study area. They expressed a deep interest and responsibility related to impacts to Aboriginal heritage within the traditional cultural areas of Dharawal, Gundungurra and Darug lands, and within the boundary areas of Tharawal, Deerubbin, Gandangara, La Perouse and Metropolitan local Aboriginal land councils (email and letter dated 20/0/2020).



Widescope indicated that they had members who were recognised as cultural knowledge holders. They stated that they held cultural knowledge of, and maintained a cultural connection to the study area and its surrounds (email dated 26/07/2020).

Wurrumay Pty Ltd stated that they held knowledge and connection to Country through Ancestral ties with Black Kitty (related to the history of the Blacktown Native Institution) (email dated 17/07/2020).

# 6 Summary and Analysis of Background Information

Analysis of the background information presented in the preceding chapters allows an assessment of the cultural heritage values within the study area to be made. Combining data from historical/ethnographic sources, landscape evaluation and archaeological context provides an insight into how the landscape was used and what sort of events took place in the past.

Culturally, the general Marsden Park area has demonstrated importance to the contemporary Aboriginal community. Many registered stakeholders expressed their personal family and cultural connections to the area. Stakeholders also expressed the responsibility and importance associated with caring for the land, including the heritage sites, plants and animals, creeks and the land itself. The interconnectivity of sites through the landscape has also been highlighted.

Archaeological evidence of past Aboriginal occupation and use of the landscape shows that the types and preservation of archaeological sites in the vicinity of the project area are highly influenced by geology, soil landscapes and ground surface disturbance. Archaeological site types in the vicinity of the study area generally comprise open artefact scatters and isolated finds. Artefact density and site frequency in the region is influenced by the reliability and permanence of fresh water sources, with higher site frequency and artefact density in the vicinity of the higher order watercourses of Bells Creek and South Creek. The study area and immediate surrounds are located in an area of ephemeral fresh water supply and sites are typified by low density artefact surface scatters and isolated artefacts indicative of intermittent occupation.

Archaeologically, open artefact scatters with stratigraphic integrity provide the most archaeological research potential. The residual soil landscape present within the study area is generally favourable for the preservation of in situ archaeological material; however, natural processes and land use practices can have a detrimental effect on the preservation of archaeological sites.

Comprehensive archaeological assessment was undertaken by KNC as part of the CHAR process in 2020. The archaeological field survey confirmed the disturbed nature of the soils across the majority of the study area and the low potential for any intact archaeological deposit to remain. The current study area has been subject to repeated episodes of vegetation clearance and stripping as well as significant earthmoving activities related to former quarrying activities which have left visible ditches and mounds across the landscape. This has resulted in significant ground surface disturbance across the study area.

# 6.1 Archaeological sites within the study area

Background assessment and field survey have identified two Aboriginal archaeological sites within the study area. Sites MPIP 17 and MPIP 18 are shown on Figure 6.

Site name: MPIP 17 AHIMS site ID: 45-5-3748

MPIP 17 consisted of a low density artefact scatter recorded along an unformed vehicle access track. The site comprised two artefacts recorded approximately 40 metres apart. The artefacts consisted of two silcrete flaked pieces. The site was identified across a gentle midslope descending to the south-west towards an ephemeral drainage line. Ground surface visibility on exposures at the time of survey was low to moderate (up to 50%). Disturbance at the site consisted of land clearing activities and the presence of a raised access track running perpendicular to the property boundary fence. The raised track was located between the two recorded surface artefacts and was determined to likely be an old railway embankment given its constant height and gradient. The site was surrounded by occasional regrowth eucalypt trees.

Survey was undertaken as part of the current Aboriginal heritage assessment for the Stage 3 Facilities at the Sydney Business Park. The location of the site was confirmed. However, the previously recorded artefacts were not relocated during the revisit. Since its original recording, the site had been subject to continual disturbance associated with modern land use and increased erosion across the property. Based upon the archaeological assessment, the site was assessed as exhibiting low significance, consistent with its original site recording.

Site name: MPIP 18 AHIMS site ID: 45-5-3749

Site MPIP 18 comprised a low density artefact scatter recorded along an unformed vehicle access track present along a property boundary fence. Eight artefacts were recorded across the track and consisted of six yellow and red silcrete flaked pieces and two complete yellow silcrete flakes. Some vehicle damage was evident at the time of recording. The site was identified in a mid slope context, across a gentle slope descending to the west and northwest. The area surrounding the site consisted of occasional regrowth eucalypt trees with increased grass cover around the track. The site was identified on a large surface exposure with visibility up to 75%.

Archaeological survey undertaken for the current project could not relocate the artefacts originally recorded at the site location. Two additional silcrete artefacts (comprising one core and one retouched flake) were identified along the eroded vehicle access track. Ongoing agricultural land use disturbance since the time of original recording had further reduced the likelihood of any intact deposits remaining. Based on the archaeological assessment, the site was confirmed to exhibit low archaeological significance. The results were consistent with the original site recording.

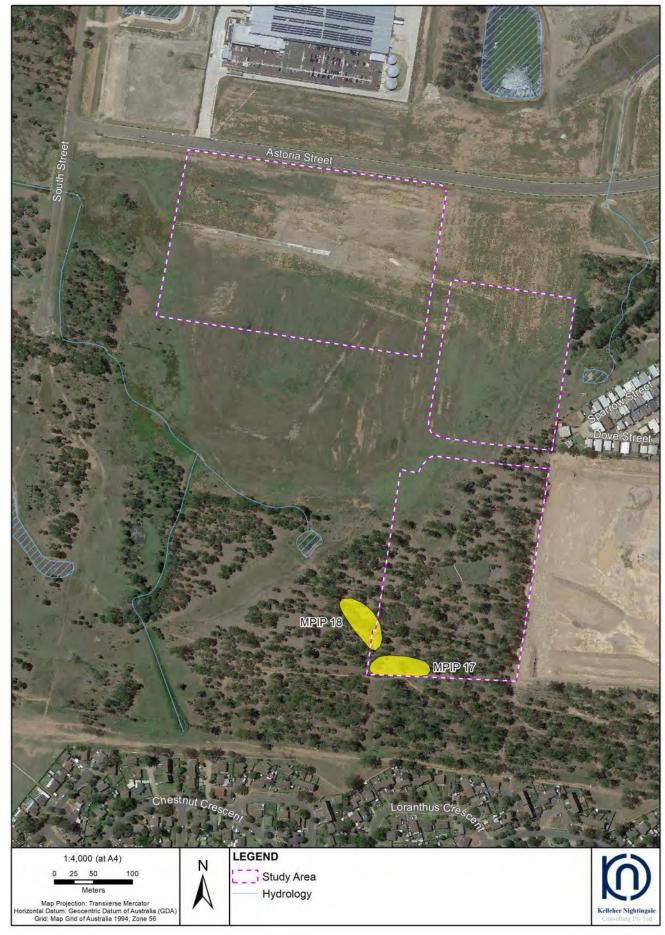


Figure 6. Identified Aboriginal archaeological sites in the study area

# 7 Cultural Heritage Values and Statement of Significance

# 7.1 Significance assessment criteria

One of the primary steps in the process of cultural heritage management is the assessment of significance. Not all sites are equally significant and not all are worthy of equal consideration and management (Sullivan and Bowdler 1984, Pearson and Sullivan 1995:7). The determination of significance can be a difficult process as the social and scientific context within which these decisions are made is subject to change (Sullivan and Bowdler 1984). This does not lessen the value of the heritage approach, but enriches both the process and the long-term outcomes for future generations, as the nature of what is conserved and why, also changes over time.

Significance assessments can generally be described under three broad headings (Pearson and Sullivan 1995:7):

- value to groups such as Aboriginal communities
- value to scientists and other information gatherers
- value to the general public in the context of regional, state and national heritage.

The assessment of significance is a key step in the process of impact assessment for a proposed activity as the significance or value of an object, site or place will be reflected in resultant recommendations for conservation, management or mitigation.

The Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (OEH 2010b) requires significance assessment according to criteria established in the Australia ICOMOS Burra Charter (Australia ICOMOS 2013). The Burra Charter and its accompanying guidelines are considered best practice standard for cultural heritage management, specifically conservation, in Australia. Guidelines to the Burra Charter set out four criteria for the assessment of cultural significance:

- Aesthetic value relates to the sense of the beauty of a place, object, site or item;
- Historic value relates to the association of a place, object, site or item with historical events, people, activities or periods;
- Scientific value scientific (or research) value relates to the importance of the data available for a place, object, site or item, based on its rarity, quality or representativeness, as well as on the degree to which the place (object, site or item) may contribute further substantial information; and
- Social value relates to the qualities for which a place, object, site or item has become a focus of spiritual, political, national or other cultural sentiment to a group of people. In accordance with the Heritage NSW Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW, the social or cultural value of a place (object, site or item) may be related to spiritual, traditional, historical or contemporary associations. "Social or cultural value can only be identified though consultation with Aboriginal people" (OEH 2011:8).

Significance assessment for identified archaeological sites focusses on the social/cultural, historic, scientific and aesthetic significance of Aboriginal heritage values as identified in *The Burra Charter* (Australia ICOMOS 2013). The identification of significance is developed in consultation with the registered Aboriginal stakeholders. Assessed values for the sites within the study area are detailed below.

### Cultural / social significance

This area of assessment concerns the value(s) of a place, feature or site to a particular community group, in this case the local Aboriginal community. Aspects of social significance are relevant to sites, objects and landscapes that are important or have become important to the local Aboriginal community. This importance involves both traditional links with specific areas as well as an overall concern by Aboriginal people for sites generally and their continued protection. Aboriginal cultural significance may include social, spiritual, historic and archaeological values and is determined by the Aboriginal community.

It has been identified during the consultation process that the local area has cultural heritage value (social value) to the local Aboriginal community. No specific cultural or social values for the sites within the study area were provided by the registered Aboriginal stakeholders following the review of the draft CHAR.

#### Historic significance

Community consultation and historical research has not identified any information regarding specific historical significance of identified Aboriginal archaeological sites in or near the study area. No specific historical values for the sites within the study area were provided by the registered Aboriginal stakeholders following the review of the draft CHAR. Archaeologically, the study area does not contain these values in relation to Aboriginal heritage.



#### Scientific / archaeological significance

For archaeologists, scientific significance refers to the potential of a site to contribute to current research questions. Alternately, a site may be an in situ repository of demonstrably important information, for example rare artefacts of unusually high antiquity.

Scientific significance is assessed using criteria to evaluate the contents of a site, state of preservation, integrity of deposits, representativeness of the site type, rarity/uniqueness and potential to answer research questions on past human behaviour. Heritage NSW's recommended criteria for assessing archaeological significance include:

- Archaeological Research Potential significance may be based on the potential of a site or landscape to
  explain past human behaviour and can incorporate the intactness, stratigraphic integrity or state of
  preservation of a site, the association of the site to other sites in the region (connectivity), or a datable
  chronology.
- Representativeness all sites are representative of those in their class (site type/subtype) however the issue
  here relates to whether particular sites should be conserved to ensure a representative sample of the
  archaeological record is retained. Representativeness is based on an understanding of the regional
  archaeological context in terms of site variability in and around the study area, the resources already
  conserved and the relationship of sites across the landscape.
- Rarity which defines how distinctive a site may be, based on an understanding of what is unique in the
  archaeological record and consideration of key archaeological research questions (i.e. some sites are
  considered more important due to their ability to provide certain information). It may be assessed at local,
  regional, state and national levels.

High significance is usually attributed to sites which are so rare or unique that the loss of the site would affect our ability to understand an aspect of past Aboriginal use/occupation of an area. In some cases a site may be considered highly significant because it is now rare due to destruction of the archaeological record through development. Moderate (medium) significance is attributed to sites which provide information on an established research question.

Sites with moderate significance are those that offer the potential to yield information that will contribute to the growing holistic understanding of the Aboriginal cultural landscape of the project area. Archaeological investigation of moderately significant sites will contribute knowledge regarding site type interrelationships, cultural use of landscape features and occupation patterns

Low significance is attributed to sites which cannot contribute new information about past Aboriginal use/occupation of an area. This may be due to site disturbance or the nature of the site's contents.

#### **Aesthetic Values**

Aesthetic values are often closely related to the social values of a site or broader cultural landscape. Aspects may include scenic sights, smells and sounds, architectural fabric and creative aspects of a place. No specific aesthetic values for the sites within the study area were provided by the registered Aboriginal stakeholders following the review of the draft CHAR. Archaeologically; the study area does not contain these values.

### 7.2 Statement of significance

The study area has cultural value for the local Aboriginal community. The identified cultural value is a feeling of attachment and responsibility for the land. These values become tangible when tied to identified Aboriginal objects found at the archaeological sites. In this way, the Aboriginal objects can be seen as exhibiting both scientific information and cultural meaning, knowledge about the past tied with social values and belief systems.

The study area contains two identified Aboriginal archaeological sites as defined under the *National Parks and Wildlife Act 1974*. Significance assessment is based on a consideration of the research value, representativeness, intactness and rarity of the sites in a local and regional context. The significance of the sites within the study area is outlined below.

### MPIP 17 (AHIMS 45-5-3748)

MPIP 17 represents a commonly occurring site type, comprising a low density surface artefact scatter identified on a mid slope descending towards an ephemeral drainage line. The artefacts at the site are typical of the region in terms of type and raw material. The site has been subject to extensive disturbance from historic/contemporary land use practices and associated environmental factors. The site is located in a disturbed context and has low to nil potential for intact subsurface deposit. The recorded surface artefacts form part of a disturbed deposit. The site demonstrates low archaeological potential and scientific value and it is unlikely that further investigation could contribute to our understanding of Aboriginal landscape use in the region. Based on the intactness, representativeness and research potential of the site, MPIP 17 is determined to have low archaeological significance.

### MPIP 18 (AHIMS 45-5-3749)

MPIP 18 represents a commonly occurring site type, consisting of a low density surface artefact scatter recorded on a mid slope descending towards an ephemeral drainage line. The artefacts at the site are typical of the region in terms of type and raw material. The site has been subject to extensive disturbance from historic/contemporary land use practices and associated environmental factors. MPIP 18 is located in a disturbed context and has low to nil potential for intact subsurface deposit. The recorded surface artefacts form part of a disturbed deposit. The site demonstrates low archaeological potential and scientific value and it is unlikely that further investigation could contribute to our understanding of Aboriginal landscape use in the region. Based on the intactness, representativeness and research potential of the site, MPIP 18 is determined to have low archaeological significance.

# 8 Impact Assessment and Mitigation Strategies

# 8.1 Proposed activity

Marsden Park Developments Pty Ltd proposes to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park within the Marsden Park Industrial Precinct. The proposal includes the construction of several local roads and associated infrastructure works to support the new development in the IN1 General Industrial, IN2 Light Industrial, and SP2 Infrastructure (Local Roads) zoned lands. The proposed activities associated with the subdivision and development include:

- Site subdivision;
- Vegetation clearing, demolition of minor structures and earthworks (including cut/fill operations);
- Construction of two estate roads and associated intersections;
- Stormwater infrastructure (including potential temporary estate basin);
- Construction and operation of four warehouse and distribution facilities; and
- Ancillary development including car parking, infrastructure provision and landscaping.

The proposal would effectively cover the entirety of the study area and impact sites MPIP 17 and MPIP 18. Impacts to the sites are unavoidable due to the scale of the project and requirements for the proposal. Assessed impact to the identified sites within the study area is shown on Figure 7 and listed in Table 4 below.

Table 4. Proposed impact to Aboriginal archaeological sites within the project area

Site name	AHIMS number	Type of harm	Degree of harm	Consequence of harm	Significance of harm
MPIP 17	45-5-3748	Direct	Total	Total loss of value	Low
MPIP 18	45-5-3749	Direct	Partial	Partial loss of value	Low



Figure 7. Impact assessment for archaeological sites in the study area

# 8.2 Mitigating harm

The identified Aboriginal archaeological sites recorded within the study area have been considered by Marsden Park Developments Pty Ltd in relation to the proposed warehouse development activities. Unfortunately, direct impacts to sites MPIP 17 and MPIP 18 could not be avoided for the current project due to the requirement for bulk earthworks and given the topographic context of the sites. Both MPIP 17 and MPIP 18 will be at least partially impacted by the proposal.

Archaeological mitigation (salvage) is generally recommended where sites of moderate significance or higher are to be impacted. Mitigation for the identified impact to the sites within the study area by the proposed activities in the form of salvage excavation is not warranted as both MPIP 17 and MPIP 18 are considered to display low archaeological significance based on scientific value and potential to inform on Aboriginal landscape use in the area. The impacted archaeological sites are located in a disturbed landscape context and are unlikely to retain intact subsurface archaeological deposit. Based on their assessed significance, the sites do no warrant non-practicable avoidance or conservation measures.

Consultation with Aboriginal stakeholders has determined that the loss of intrinsic Aboriginal cultural value of impacted sites cannot be offset; however, information recovered from mitigation activities is equally as valuable to the contemporary Aboriginal community. Suitable recommendations for the identified impacts to both sites have been developed based on environmental context and condition, background research and consultation with stakeholders.

Proposed mitigation measures include the collection of recorded surface artefacts at MPIP 17 and the impacted portion of MPIP 18. Measures for mitigating harm to the site are outlined in Table 5 below. Additional measures will be put in place to ensure no impacts upon the non-impacted portion of MPIP 18 (see Table 5 and Chapter 9).

Table 5. Proposed mitigation measures for impacted Aboriginal sites

Site Name	AHIMS Number	Impact Assessment	Assessed Significance	Mitigation Harm
MPIP 17	45-5-3748	Direct / Total	Low	Disturbed deposit.  Community collection of surface artefacts.  Relevant project approval required prior to commencement of works affecting the site.
MPIP 18	45-5-3749	Direct / Partial	Low	Disturbed deposit.  Community collection of surface artefacts.  Management measures to be implemented including protective fencing of non-impacted portion of site during construction. Identify non-impacted portion of site on construction environmental management plan and included within site induction to ensure no impact.  Relevant project approval required prior to commencement of works affecting the site.

#### **Method of Collection**

Following project approval registered Aboriginal stakeholders for the project should be provided with an opportunity to attend site and collect the surface artefacts in accordance with the methodology below.

The objects and their location have been recorded as part of the assessment process (CHAR, archaeological survey and site card). Collection would involve the physical picking up of the objects and the completion of an Aboriginal Site Impact Recording Form (ASIRF).

# 9 Management Outcomes

The following general management outcomes will be implemented in accordance with the mitigation strategy for the proposal as outlined in Chapter 10.

# 9.1 Mitigation through the collection of surface artefacts

The archaeological sites listed in Table 6 are of low archaeological significance and will be impacted by the project.

The sites would require the collection of surface artefacts to mitigate the impact. Collection can only occur after Project Approval is obtained.

The collection must be completed prior to any activities which may harm Aboriginal objects at these site locations. The collection would be undertaken in accordance with the methodology presented in section 8.2.

Table 6. Aboriginal sites requiring mitigation (collection)

Archaeological sites requiring mitigation (collection)			
A selected of the fact of the selection of the selection	MPIP17		
Archaeological Sites (requiring the collection of surface artefacts)	MPIP18		

# 9.2 Management of non-impacted portion of Aboriginal site MPIP 18

Impact assessment determined that MPIP 18 will be partially impacted by the proposed development. Management measures must be implemented for site MPIP 18 to ensure that the non-impacted portion of site is avoided by proposed development and construction activities. Management measures to be implemented include the demarcation of the non-impacted portion of MPIP 18 with protective fencing and identification of this area as an environmentally sensitive "no-go zone". The site will also be identified on any construction environmental managements plans (or similar), and documented toolbox talks will be held to ensure all on-site staff and contractors are aware of obligations and requirements regarding the protection of Aboriginal heritage. Recommendations for the management and site protection for non-impacted portion of MPIP 18 include:

- The boundaries of the non-impacted portion of MPIP 18 should be demarcated with protective fencing and identified as an environmentally sensitive "no-go zone".
- The location of the non-impacted portion of MPIP 18 should be included on construction environmental management plans (or similar) and identified as an environmentally sensitive "no-go zone".
- All site workers inducted as to appropriate site protection measures for the non-impacted portion of MPIP 18.

# 10 Management Procedures

# 10.1 Management Policy for Aboriginal Heritage

The policy for the management and conservation of Aboriginal heritage in relation to salvage activities and construction activities (or fencing, geotechnical investigations, minor clearing, establishing site compounds, adjustment to services/utilities etc.) is described below:

# Responsibility for compliance with Management Policy

- 1. The Proponent must ensure all of its employees, contractors and subcontractors and agents are made aware of and comply with this management policy.
- The Proponent must appoint a suitably qualified and experienced environmental manager who is responsible for overseeing the activities related to this management policy.
- 3. The Proponent must appoint a suitably qualified and experienced Archaeologist who is responsible for overseeing, for and on behalf of the Proponent, the archaeological activities relating to the project.

#### Construction constraints

- 4. Where the surface collection of artefacts has been nominated for the impacted site, no construction activities (or fencing, geotechnical investigations, minor clearing, establishing site compounds, adjustment to services/utilities etc.) can occur on the lands to be investigated until the relevant surface collection at the nominated site has been completed.
- 5. Prior to the commencement of early works activity (e.g. fencing, minor clearing, establishing site compounds etc.) a construction heritage site map identifying the Aboriginal site requiring the collection of surface artefacts and the Aboriginal sites to be avoided (for all sites in proximity to the project boundary) must be prepared. The construction heritage site map should be prepared to the satisfaction of Marsden Park Developments Pty Ltd.
- 6. All employees, contractors, subcontractors and agents carrying out early works activities (e.g. fencing, minor clearing, geotechnical investigations, establishing site compounds etc) must undertake a Project induction (including the distribution of a construction heritage site map) to ensure that they have an understanding and are aware of the Aboriginal heritage issues affecting the activity.

# Areas of Aboriginal archaeological sites and objects to be impacted

7. The areas of archaeological sites and objects identified as being impacted by construction activities are listed in Table 6 of this report and are in accordance with the Project Approval.

### **Human Remains**

- 8. This management policy does not authorise any damage of human remains.
- 9. If potential human remains are disturbed the Proponent must follow the procedures outlined in section 10.2 below.

# Involvement of Aboriginal groups and/or individuals

- 10. Opportunity must be provided to the registered Aboriginal stakeholders to be involved in the following activities:
  - a. assist with the surface collection in accordance with the methodology specified in Chapter 8.

### Conservation of salvaged/collected Aboriginal objects

- 11. Department of Planning, Industry and Environment (DPIE), as the approval authority, will be consulted.
- 12. Recovered Aboriginal objects should be handled in accordance with Requirement 26 "Stone artefact deposition and storage" in the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* as required.

# Reporting requirements

- 13. A written archaeological report documenting the salvage collection must be provided to Marsden Park Developments Pty Ltd within a reasonable time in accordance with the Project Approval following the completion of the archaeological program.
- 14. An Aboriginal Site Impact Recording Form (ASIRF) must be completed and lodged with Heritage NSW for the archaeological sites listed in Table 6 within a reasonable time after the approved activities have been completed.

#### Notification and reporting about incidents that breach this management policy

15. Incident reporting requirements in accordance with the Project Approval is to include Aboriginal heritage.



### 10.2 Procedures for Handling Human Remains

# • Note that Project Approvals do not include the destruction of Aboriginal remains

This section outlines the procedure for handling human remains in accordance with the Skeletal Remains – Guidelines for the Management of Human Skeletal Remains under the *Heritage Act 1977* (NSW Heritage Office 1998) and the *Aboriginal Cultural Heritage Standards and Guidelines Kit* (NPWS 1997). In the event that construction activity reveals possible human skeletal material (remains), the following procedure is to be followed:

- 1. as soon as remains are exposed, all work is to halt at that location immediately and the Project environmental manager on site is to be immediately notified to allow assessment and management;
  - i. stop all activities; and
  - ii. secure the site.
- contact police, the discovery of human remains triggers a process which assumes that they are associated with a crime. The NSW Police retain carriage of the process until such time as the remains are confirmed to be Aboriginal or historic;
- 3. DPIE, as the approval authority, will be notified when human remains are found;
- once the police process is complete and if remains are not associated with a contemporary crime contact DPIE. DPIE will determine the process, in consultation with Heritage NSW as appropriate;
  - i. if the remains are identified as Aboriginal, the site is to be secured and DPIE and all Aboriginal stakeholders are to be notified in writing. DPIE will act in consultation with Heritage NSW as appropriate. Heritage NSW will be notified in writing according to DPIE instructions; or
  - ii. if the remains are identified as non-Aboriginal (historical) remains, the site is to be secured and the DPIE is to be contacted. DPIE will act in consultation with the Heritage NSW as appropriate.
- 5. once the police process is complete and if the remains are identified as not being human work can recommence once the appropriate clearances have been given.

#### 10.3 Procedures for Handling Unexpected Aboriginal Objects

This section outlines the procedure for handling unexpected archaeological sites and objects. In the event that construction activity reveals possible Aboriginal objects other than those identified in Table 10, the following procedure is to be followed:

- all work is to halt at that location immediately and the Project environmental manager on site is to be immediately notified to allow assessment and management;
  - i. stop all activities; and
  - ii. secure the site.
- contact the project archaeologist to assess the find and determine if it is consistent with the Project Approval;
  - i. if the find is consistent, the archaeologist will allow work to continue
  - ii. if the find is inconsistent, Heritage NSW will be notified as soon as practical on 131555 providing any details of the Aboriginal object and its location. Work cannot recommence unless authorised in writing by Heritage NSW.

### 10.4 Procedure for proposed changes to the Approved Project

Marsden Park Developments Pty Ltd recognises that during the construction of the project design alterations or other changes to the Approved Project may be required.

A proposed change to the Approved Project (such as an alteration of the current design, the location of ancillary facilities) within the project corridor may result in a:

- Reduced impact to Aboriginal cultural heritage; or an
- Increased impact to Aboriginal cultural heritage.

Note: the use of the word impact in this section is defined as an impact on the significance of Aboriginal cultural heritage rather than simply an increased physical impact.

To ensure consistency with the Approved Project and this document any change in the overall impact on Aboriginal cultural heritage will need to be considered. The process to determine consistency is outlined in section 10.4.1 below.

Where a proposed change to the Approved Project occurs outside of the project boundary considered for the EIS further heritage assessment will be required to determine if there would be an impact on Aboriginal cultural heritage and whether this represents a modification to the Approved Project (outlined below).



#### 10.4.1. Changes in heritage impact

Where the Proponent seeks to make a change to the design and construction of the Approved Project which changes the assessed impact on Aboriginal cultural heritage the Proponent will need to prepare an assessment of the new impacts of this work in consultation with the appointed Archaeologist. The continued involvement of the Aboriginal stakeholders in this process is outlined in section 10.5.

New impacts consistent with previously identified impacts

If a proposed change to the Approved Project is considered to have a neutral or lesser significant impact on Aboriginal cultural heritage than that identified in this document it would be considered a consistent impact.

If the proposed change is considered to be consistent with the Approved Project Marsden Park Developments Pty Ltd may approve the change with no requirements to seek further approval. However, in certain circumstances, further consultation with Aboriginal stakeholders may still be required (see section 10.5 below).

New impacts inconsistent with previously identified impacts

If a proposed change to the Approved Project is considered to have a more significant impact on Aboriginal cultural heritage than that identified in the EIS it would be considered an inconsistent impact.

If the proposed change is considered inconsistent with the assessed impact on Aboriginal cultural heritage, as detailed in the Project Approval, Marsden Park Developments Pty Ltd would require an amendment to the mitigation measures agreed in this report. If this proposed change is considered inconsistent with the Approved Project Marsden Park Developments Pty Ltd would require a modification of the Approved Project. Further consultation with Aboriginal stakeholders will be undertaken (see 10.5 below).

### 10.5 Process for continued consultation with Aboriginal stakeholders

The extent to which Marsden Park Developments Pty Ltd will continue to consult with Aboriginal stakeholders is dependent upon the level of impact and whether the area was assessed as part of the EIS. The types of potential impacts are identified as reduced impacts, increased impacts or unknown impacts.

# a) Reduced or neutral impact

If as a result of alterations to the project design a previously identified impact to an Aboriginal heritage item is reduced or neutral then no further consultation is required.

If as a result of alterations to the project design an impact to an Aboriginal heritage item is proposed that results in a reduced impact on the overall heritage significance of the project area (i.e. the cumulative impact is reduced), then further consultation with Aboriginal stakeholders will be undertaken. This consultation may entail a phone call and phone log of comments received or the provision of a report for comment (10 working days).

# b) Increased Impact

Where as a result of alterations to the project design an impact on Aboriginal heritage is considered to be greater than identified by the Approved Project further consultation will be undertaken. This consultation will either entail a phone call and phone log of comments received or the provision of a report for comment (10 working days).

### c) Unknown impacts: Assessment process

Where a proposed change is an area located outside of the project boundary assessed as part of the Approved Project the impact on Aboriginal cultural heritage is considered to be unknown. This area would require preliminary assessment to determine any impacts upon Aboriginal heritage. Should no impacts be identified then no additional consultation with Aboriginal stakeholders is required. Should potential impacts be identified, consultation with Aboriginal stakeholders will be undertaken. This consultation will entail the provision of a report for stakeholder comment (10 working days) detailing the impacts and mitigation strategies proposed.



#### References

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# Appendix A Advertisement for Registration for Interest

6 Sack to results ( all Classifieds ). Notices & ..... Notice for Registration of Interest Date listed: 17/7/2020 Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Maraden Park NSW 2765). Marsden Park Developments Pty Ltd will be seeking approval through a State Significant Development (SSD) application under the NSW Environmental Planning & Assessment Act 1979. Marsden Park Developments Pty Ltd proposes to carry out consultation with Aboriginal communities in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010. The purpose of this consultation process. is to inform the preparation of an Environmental Impact Statement and to assist Heritage NSW (as part of the Department of Premier and Cabinet) in its consideration of the proposal. Kelleher Nightingale Consulting Pty Ltd has been engaged by Marsden Park Developments Pty Ltd to facilitate the consultation process. Marsden Park Developments Pty Ltd invites Aboriginal groups and/or Aboriginal people who hold cultural knowledge relevant to determining the significance of Abonginal objects and/or places at Marsden Park, NSW to register interest in a process of community consultation with the contact shown below (on behalf of Marsden Park Developments Pty Ltd): Kelleher Nightingale Consulting Level 10, 25 Bligh Street Sydney NSW 2000 phone 9232 5373 The closing date for registration is 31 July 2020.

Published 17/07/2020. Listed in 'Public Notices' section for Marsden Park, NSW.

want your details forwarded to these organisations.

Published online via *The Daily Telegraph* at: https://www.dailytelegraph.com.au/classifieds/notices/public-notices/notice-for-registration-of-interest/5489267/

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names and contact details of each Aboriginal person who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council If you are registering your interest, please let us know if you do not

# Appendix B Aboriginal Stakeholder Responses to Proposed Assessment Methodology and Draft CHAR

From: Carolyn .H <cazadirect@live.com>
Sent: Tuesday, 11 August 2020 10:46 AM

To: Zac Thomas

Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3,

Marsden Park - A1

Follow Up Flag: Follow up Flag Status: Follow up



Contact: Carolyn Hickey

M: 0411650057 E: Cazadirect@live.com

A: 10 Marie Pitt Place, Glenmore Park, NSW 2745

ACN: 639 868 876

Hi Zac,

I have reviewed the document and support the Information and Methodology.

A1 would like to be involved in any future field work.

Kind regards Carolyn Hickey

From: Zac Thomas < zac.thomas@knconsult.com.au >

Sent: Friday, 31 July 2020 5:19 PM
To: Caza X < cazadirect@live.com>

Subject: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - A1

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

From: Lee Field <barrabyculturalservices@gmail.com>

Sent: Tuesday, 4 August 2020 11:15 AM

To: Zac Thomas

Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3,

Marsden Park - BCS

Dear Zac

Barraby supports the methodology for this project

Thanks Lee Field

On 31 Jul 2020, at 5:20 pm, Zac Thomas < zac.thomas@knconsult.com.au > wrote:

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

Kind regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373

<4.2-4.3 BCS 310720.pdf>

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From: Lilly Carroll <didgengunawalclan@yahoo.com.au>

Sent: Saturday, 1 August 2020 8:36 PM

To: Zac Thomas

Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3,

Marsden Park - DNC

Hi Zac

DNC agrees to all proposals of the methodology

Kind regards DNC Paul Boyd & Lilly Carroll 0426823944

Sent from myMail for iOS

Friday, 31 July 2020, 5:23 pm +1000 from Zac Thomas < zac.thomas@knconsult.com.au>:

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

From: philip khan <philipkhan.acn@live.com.au > Sent: Monday, 24 August 2020 8:34 PM

To: Zac Thomas

Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3,

Marsden Park - KYWG

Follow Up Flag: Follow up Flag Status: Completed

Dear Zac,

I have reviewed your methodology for Sydney Business Park, within the Marsden Park Industrial Precinct, this area is highly significant to us Aboriginal People & it is also near Bells Creek, therefore I agree to your methodology recommending further testing is required.

Warm regards

Phil Khan



From: Zac Thomas <zac.thomas@knconsult.com.au>

Sent: Friday, 31 July 2020 5:25 PM

To: philip khan <philipkhan.acn@live.com.au>

Subject: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - KYWG

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

ī

From: Darleen Johnson <murrabidgeemullangari@yahoo.com.au>

Sent: Wednesday, 5 August 2020 5:36 PM

To: Zac Thomas

Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3,

Marsden Park - MBMAC

Follow Up Flag: Follow up Flag Status: Flagged

Hi Zac

I have read the project information and methodology for the above project, I endorse the recommendations made. Kind regards

Darleen Johnson

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

Kind regards,

#### Zac Thomas

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

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From: jesse johnson <muragadi@yahoo.com.au>
Sent: Thursday, 6 August 2020 12:06 PM

To: Zac Thomas

Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3,

Marsden Park - MHIC

Hi Zac.

I have read the project information and methodology for the Sydney business park, Marsden Park. I agree with the recommendations made.

Thanks

Jesse Johnson

On Friday, 31 July 2020, 05:26:18 pm AEST, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

Kind regards,

#### Zac Thomas

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

From: Phillip Boney <Waarlan12@outlook.com>

Sent: Sunday, 2 August 2020 9:06 PM

To: Zac Thomas

Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3,

Marsden Park - WAG

Hi Zac,

Phil Boney here. I have read the methodology report for this project and I do not have any issues about this project or its methodology. Thank you.

With regards, Phil Boney Wailwan Aboriginal Group

From: Zac Thomas <zac.thomas@knconsult.com.au>

Sent: Friday, 31 July 2020 12:27 AM

To: Phillip Boney < Waarlan12@outlook.com>

Subject: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - WAG

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

Kind regards,

Zac Thomas
Her large: Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St

Sydney NSW 2000

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Report this message as spam

From: Arika Jalomaki <yulayculturalservices@gmail.com>

Sent: Thursday, 27 August 2020 1:06 PM

To: Zac Thomas

Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3,

Marsden Park - YCS

Dear Zac,

I on behalf of Yulay cultural service's support the methodology for the above project.

Kind regards, Arika Jalomaki

On Fri, 31 Jul 2020 at 5:29 pm, Zac Thomas <a href="mailto:zac.thomas@knconsult.com.au">zac.thomas@knconsult.com.au</a> wrote:

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal

cultural heritage assessment for the project.

From: Bo <yurrandaali\_cs@hotmail.com>
Sent: Thursday, 6 August 2020 8:16 PM

To: Zac Thomas

Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3,

Marsden Park - Yurrandaali

Follow Up Flag: Follow up Flag Status: Flagged

Hi Zac

Yurrandaali supports the methodology associated with this project

Thanks Bo Field

On Fri, 31 Jul 2020 at 5:30 pm, Zac Thomas Zac.thomas@knconsult.com.au wrote:

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as ?Stage 3? of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by 28 August 2020, using the contact details on the attached letter.

Kind regards,

From: Carolyn .H <cazadirect@live.com>
Sent: Sunday, 6 September 2020 9:58 PM

To: Zac Thomas

Subject: Re: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - A1



Contact: Carolyn Hickey

M: 0411650057

E: Cazadirect@live.com

A: 10 Marie Pitt Place, Glenmore Park, NSW 2745

ACN: 639 868 876 ABN: 31 639 868 876

Hi,

I have reviewed the document and support the Draft ACHAR. A1 would like to be involved in any future Meetings and field work. Kind regards Carolyn Hickey

From: Zac Thomas < zac.thomas@knconsult.com.au >

Sent: Monday, 31 August 2020 4:58 PM To: Caza X < cazadirect@live.com>

Subject: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - A1

Dear Registered Aboriginal Stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal Cultural Heritage Assessment Report for the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

As a registered Aboriginal stakeholder for this project, we would like to invite you to review the report and provide us with any comments or feedback regarding the assessment and the Aboriginal cultural heritage significance of the study area/Aboriginal archaeological sites.

Please forward any comments to myself or the office by **28 September 2020**. Thank you and we look forward to receiving your comments.

Kind regards,

Zac Thomas

Heritage Administration Assistant Kelleher Nightingale Consulting Pty Ltd

From: justinecoplin@optusnet.com.au
Sent: justinecoplin@optusnet.com.au
Thursday, 3 September 2020 10:46 AM

To: Zac Thomas

 Subject:
 Proposed Cultural Heritage Assessment Report Methodology

 Attachments:
 Proposed Cultural Heritage Assessment Report Methodology.pdf

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DARUG CUSTODIAN ABORIGINAL CORPORATION

PO BOX 81 WINDSOR 2756

PHONE: 0245775181 FAX: 0245775098 MOBILE: 0415770163 Leanne Watson 0414962766 Justine Coplin

EMAIL: mulgokiwi@bigpond.com / justinecoplin@optusnet.com.au

Attention: KNC Date:03092020

**Subject**: Proposed Cultural Heritage Assessment Report Methodology 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Dear Zac

Our group is a non-profit organisation that has been active for over forty years in Western Sydney, we are a Darug community group with over three hundred members. The main aim in our constitution is the care of Darug sites, places, wildlife and to promote our culture and provide education on the Darug history.

Our group promotes Darug Culture and works on numerous projects that are culturally based as a proud and diverse group. It has been discussed by our group and with many consultants and researches that our history is generic and is usually from an early colonists perspective or solely based on archaeology and sites. These histories are adequate but they lack the people's stories and parts of important events and connections of the Darug people and also other Aboriginal people that now call this area home and have done so for numerous generations.

This area is significant to the Darug people due to the evidence of continued occupation, within close proximity to this project site there is a complex of significant sites.

Landscapes and landforms are significant to us for the information that they hold and the connection to Darug people. Aboriginal people (Darug) had a complex lifestyle that was

based on respect and belonging to the land, all aspects of life and survival did not impact on the land but helped to care for and conserve land and the sustenance that the land provided. As Darug people moved through the land there were no impacts left, although there was evidence of movement and lifestyle, the people moved through areas with knowledge of their areas

and followed signs that were left in the landscape. Darug people knew which areas were not to be entered and respected the areas that were sacred.

Knowledge of culture, lifestyle and lore have been part of Darug people's lives for thousands of years, this was passed down to the next generations and this started with birth and continued for a lifetime. Darug people spent a lifetime learning and as people grew older they passed through stages of knowledge, elders became elders with the learning of stages of knowledge not by their age, being an elder is part of the kinship system this was a very complicated system based on respect.

Darug sites are all connected, our country has a complex of sites that hold our heritage and past history, evidence of the Darug lifestyle and occupation are all across our country, due to the rapid development of Sydney many of our sites have been destroyed, our sites are thousands of years old and within the short period of time that Australia has been developed pre contact our sites have disappeared.

The Aboriginal cultural heritage consultation requirements for proponents Section 4.1.8 refers to "Aboriginal organisations representing Aboriginal people who hold cultural knowledge". Recent consultation meetings have revealed that many of these Aboriginal organisations and individuals do not hold cultural knowledge of the Western Sydney area. The increasing involvement of such parties in cultural heritage management means that genuine local Aboriginal organisations are unable to properly care for our cultural heritage.

Many Aboriginal organisations listed in the OEH response letter do not contribute to the Aboriginal community of Western Sydney. Individuals listed in the OEH response letter do not represent the community and while they may be consulted with, should not be employed for their own personal financial benefit.

Our organisation is committed to providing benefits back to our local Aboriginal community through such measures as funding the local Aboriginal juniors' touch football team, painting classes for the local children and donating money to various charities. Employment in cultural heritage activities is source of income that organisations such as ours can use to contribute to beneficial activities and support within the community.

Darug custodian Aboriginal Corporation's site officers have knowledge of Darug land, Darug Culture,Oral histories, landforms, sites, Darug history, wildlife, flora and legislative

requirements. We have worked with consultants and developers for many years in Western Sydney (Darug Land) for conservation, site works, developments and interpretation/education strategie

Darug Custodian Aboriginal Corporation have received and reviewed the Proposed Cultural Heritage Assessment Report Methodology.

We look forward to receiving the methodology for review for this project.

Please contact us with all further enquiries on the above contacts.

Regards

Justine Coplin

From: lilly carroll <didgengunawalclan@yahoo.com.au>

Sent: Monday, 31 August 2020 6:30 PM

To: Zac Thomas

Subject: Re: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - DNC

Hi Zac,

As always DNC he's happy for the methodology towards the project at Sydney business Park Marsden Park

Kind regards Paul Boyd & Lilly Carroll Directors DNC

#### Sent from Yahoo Mail for iPhone

On Monday, August 31, 2020. 5:02 pm. Zac Thomas zac.thomas@knconsult.com.au wrote:

Dear Registered Aboriginal Stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal Cultural Heritage Assessment Report for the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

As a registered Aboriginal stakeholder for this project, we would like to invite you to review the report and provide us with any comments or feedback regarding the assessment and the Aboriginal cultural heritage significance of the study area/Aboriginal archaeological sites.

Please forward any comments to myself or the office by 28 September 2020. Thank you and we look forward to receiving your comments.

Kind regards,

Zac Thomas

Heritage Administration Assistant

Kelleber Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

From: philip khan <philipkhan.acn@live.com.au>
Sent: Tuesday, 29 September 2020 2:39 PM

To: Zac Thomas

Subject: RE: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - KYWG

#### Hi Zac,

Thank you for your Draft CHAR, to us Aboriginal People this area still holds high significance & spiritual feelings as it was a area that our people camped & there could be the possibility of burial sites. I understand where you are coming from and support your impact to the site in the form of salvage excavation is not warranted in this place, I would like to see that the area is monitored by a archaeologist & Aboriginal Reps. MP1P17 AHIMS 45 – 5-3748 & MP1P18 AHIMS 45 – 5 – 3749 & support all your recommendations that the Non-Impacted Portion of the situ is divided by Proposed Development & Construction activities management measures to be implemented including demarcation of MP1P with protective fencing & identification of this area as a environmental sensitive "No Go Zone", I think this will make our spirit people happy & our people still at Bidwill.

Kind Regards Phil Khan



Sent from Mail for Windows 10

From: Zac Thomas

Sent: Monday, 31 August 2020 5:03 PM

To: philip khan

Subject: 1947 Draft OHAR Review - Sydney Business Park Stage 3, Marsden Park - KYWG

Dear Registered Aboriginal Stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal Cultural Heritage Assessment Report for the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

As a registered Aboriginal stakeholder for this project, we would like to invite you to review the report and provide us with any comments or feedback regarding the assessment and the Aboriginal cultural heritage significance of the study area/Aboriginal archaeological sites.

Please forward any comments to myself or the office by **28 September 2020**. Thank you and we look forward to receiving your comments.

ī

From: Darleen Johnson <murrabidgeemullangari@yahoo.com.au>

Sent: Thursday, 3 September 2020 5:25 PM

To: Zac Thomas

Subject: Re: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park -

**MBMAC** 

Hi Zac.

I have read the project information and ACHAR for the above project, I endorse the recommendations made. Kind regards Darleen Johnson

On Monday, 31 August 2020, 05:03:29 pm AEST, Zac Thomas <a href="mailto:zac.thomas@knconsult.com.au">zac.thomas@knconsult.com.au</a> wrote:

Dear Registered Aboriginal Stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal Cultural Heritage Assessment Report for the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

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Please forward any comments to myself or the office by 28 September 2020. Thank you and we look forward to receiving your comments.

Kind regards,

#### Zac Thomas

Henlage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373



From: Phillip Boney <Waarlan12@outlook.com>
Sent: Tuesday, 1 September 2020 8:54 PM

To: Zac Thomas

Subject: Re: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - WAG

Hi Zac,

Phil here. At this stage I have nothing more to add to this assessment regarding Aboriginal cultural heritage you guys did a great job in that respect.

Regards, Phil Boney Wailwan Aborignal Group

From: Zac Thomas <zac.thomas@knconsult.com.au>

Sent: Monday, 31 August 2020 12:04 AM
To: Phillip Boney < <u>Waarlan12@outlook.com</u>>

Subject: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - WAG

Dear Registered Aboriginal Stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal Cultural Heritage Assessment Report for the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

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Kind regards,

#### Zac Thomas

Refricage Administration Assistant Kelleher Nightingale Consulting Pty Ltd Level 10, 25 Bilgin St Sydney NSW 2000 p 02 9232 5373

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AHIMS Web Services (AWS)

### Appendix C AHIMS Search Results

Office of

NSW	& Heritage	Extensive search - Site list	AD A									(ef/PO Number : 1947 Service ID : 521834
SiteID	SiteName		Datum	Zone	Easting	Northing	Context	Site Status	SteFeatur		SiteTypes	Reports
45-5-2031	MP3 Marsden Park		GDA	56	298664	6266959	Open site	Destroye d	Artefact -	40.00	Open Camp Site	4152
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45-5-2032	MP4 Marsden Park		GDA		299144	6267239	Open site	Destroyed	Artefact -		Open Camp Site	4152
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45-5-2040	MP 12 Marsden Park		GDA	56	299115	6267040	Open site	Destroye d	Artefact:-		Open Camp Site	4152
	Contact		Recorders			the free continues of the day of the section		htingale Consulting Pty	Committee New Yorkships and a		3909	
45-5-3315	Western Sydney 3		GDA	56	298624	6266125	Open site	Valid	Artefact : 2			100554
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45-5-2380	SROS1;		AGD		297880	6266910	Open site	Valid	Artefact : -		Open Camp Site	3759
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45-5-3863	MPIP 31		AGD	56	297712	6266594	Open site	Valid	Artefact : 4			
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45-5-3864	MPIP 29		AGD	56	297610	6266194	Open site	Valid	Artefact : 5			
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45-5-3865	MPIP 30		AGD	56	297491	6266623	Open site	Valid	Artefact:-			
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45-5-2381	SROS2;		AGD	56	297720	6267160	Open site	Valid	Artefact -		Open Camp Site	3759
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45-5-2382	SROS7;		AGD	56	297800	6267210	Open site	Valid	Artefact:-		Open Camp Site	3759
	Contact		Recorders			Secretaria de la companya del la companya de la com		ınd Heritage Services P		Permits	870	
45-5-2384	SROS5:		GDA	56	297944	6266709	Open site	Valid	Artefact -		Open Camp Site	3759
	Contact		Recorders	-	All Property and Persons	CORPORATION CONTRACTOR	the state of the state of	ınd Heritage Services P			892	
45-5-2386	SROS3;		AGD	56	297720	6267120	Open site	Valid	Artefact : -		Open Camp Site	3759
-	Contact		Recorders	Mr.N	Veville Baker	r,Central West A	ir chae ological a	ınd Heritage Services P	ty Ltd	<u>Permits</u>		

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56 299072 6266474 Open site

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Recorders Kelleher Nightingale Consulting Pty Ltd

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**Permits** 

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Report generated by AHIMS Web Service on 21/07/2020 for Matthew Kelleher for the following area at Datum: GDA, Zone: 56, Eastings:  $297387 \cdot 299192$ , Northings:  $6265766 \cdot 6267406$  with a Buffer of 0 meters. Additional Info: Arch Assessment. Number of Aboriginal sites and Aboriginal objects found is 32.

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GDA

GDA

Page 1 of 2



45-5-3744 MPIP 15

45-5-3747 MPIF 16

45-5-3748 MPIP 17

45-5-3745 MPIP 15A

Contact

Contact



### AHIMS Web Services (AWS) Extensive search - Site list report

Your Ref/PO Number : 1947 Client Service ID : 521834

SiteID	SteName	Datum	Zone	Easting	Northing	Context	Site Status	SteFeatur	res	SiteTypes	Reports
15-5-3749	MPIF 18	GDA	56	298368	6266361	Open site	Valid	Artefact : 9			
	Contact	Recorders	Kelle	her Nighting	ale Consulting	Pty Ltd			Permits		
45-5-3750	MPIP 19	GDA	56	298236	6266549	Open site	Valid	Artefact: 2	2		
	Contact	Recorders	Kelle	her Nighting	ale Consulting	Pty Ltd			Permits	3928	
45-5-3751	MPIP 20	GDA	56	297986	6266350	Open site	Valid	Artefact 1			
	Contact	Recorders	Kelle	her Nighting	ale Consulting	Pty Ltd			Permits		
45-5-3752	MPIP 21	GDA	5.6	298020	6266770	Open site	Valid	Artefact : 1			
	Contact	Recorders	Kelle	her Nighting	ale Consulting	Pty Ltd			Permits		
45-5-3753	MPIP Z1A	GDA	56	297998	6266831	Open site	Valid	Artefact 4	b		
	Contact	Recorders	Kelle	her Nighting	ale Consulting	Pty Ltd			Permits		
45-5-3754	MPIF 22	GDA	56	298150	6267010	Open site	Destroyed	Artefact: 1			
	Contact	Recorders	Kelle	her Nighting	ale Consulting	Pty Ltd.Kelleher	r Nightingale Consult	ing Pty Ltd.Mi	Permits	3909	
45-5-3755	MPIF 22A	GDA	56	298160	6266975	Open site	Destroye d	Artefact: 3	3		
	Contact	Recorders	Kelle	her Nighting	ale Consulting	Pty Lt d.Kelleher	r Nightingale Consult	ing Pty Ltd.Mi	Permits	3909	
45-5-3756	MPIP 23	GDA	56	298170	6267395	Open site	Destroye d	Artefact : 1			
	Contact	Recorders	Kelle	her Nighting	gale Consulting	Pty Lt d.Kelleher	r Nightingalë Consult	ing Pty Ltd.Mi	Permits	3909	
45-5-2034	MP5 Marsden Park	GDA .	56	299154	6267359	Open site	Destroye d	Artefact :		Open Camp Site	4157
	Contact	Recorders	Helen	n Brayshaw,	Matthew Kellel	her,Ms,Laila Hag	lund,Kelleher Nightir	gale Consultir	Permits		
45-5-4179	MPF-16	GDA	56	297789	6266917	Open site	Valid	Artefact : 3	1		
	Contact	Recorders	Kelle	her Nighting	ale Consulting	Pty Ltd			Permits		
45-5-4180	MPP-17	GDA	56	297954	6266788	Open site	Valid	Artefact : 1			
	Contact	Recorders	Kelle	her Nighting	ale Consulting	Pty Ltd			Permits		
45-5-4620	MPIP PAD 3	GDA	56	298179	6266413	Open site	Valid	Potential			
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45-5-5217	Fourth St 2	Recorders GDA	antitioned, defended	298056	6266363	Open site	Valid	Artefact	Permits		
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	Contact	Recorders	Mr.O	nver brown,	Associates Arc	hacology and He	eritage		Permits	4171	

Report generated by AHIMS Web Service on 21/07/2020 for Matthew Kelleher for the following area at Datum: GDA, Zone: 56, Eastings: 297387:299192, Northings:  $6265766\cdot6267406$  with a Buffer of 0 meters. Additional Info: Arch Assessment. Number of Aboriginal sites and Aboriginal objects found is 32

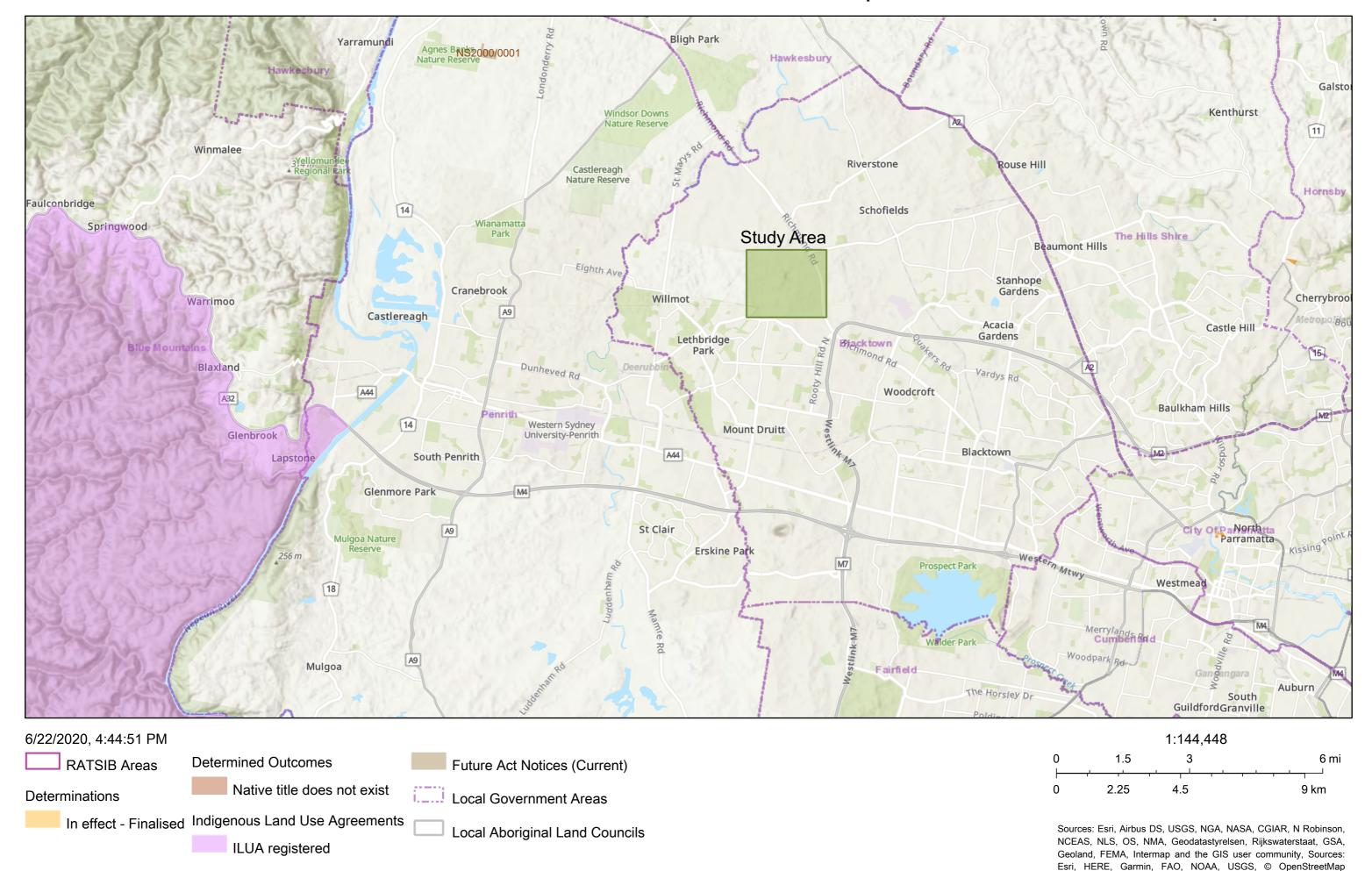
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## Appendix D Aboriginal Stakeholder Consultation Records

# Native TitleVision Web Map





22 June 2020

The General Manager Blacktown City Council PO Box 63 Blacktown NSW 2148

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
Request for information regarding potential Aboriginal stakeholders as required under the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010

Marsden Park Developments Pty Ltd is proposing to develop four world-class warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown City Council local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

Marsden Park Developments Pty Ltd will be seeking approval through a State Significant Development (SSD) application under the NSW *Environmental Planning & Assessment Act 1979.* Marsden Park Developments Pty Ltd proposes to carry out consultation with Aboriginal communities in accordance with the DPIE *Aboriginal cultural heritage consultation requirements for proponents 2010.* The purpose of this consultation process is to inform the preparation of an Environmental Impact Statement (EIS) and to assist DPIE in its consideration of the proposal. Kelleher Nightingale Consulting Pty Ltd has been engaged by Marsden Park Developments Pty Ltd to facilitate the consultation process.

In following section 4.1.2 of the consultation requirements, it would be appreciated if your organisation could provide a list of the names of Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects or Aboriginal places at Marsden Park, NSW. It would be appreciated if you could provide your response to:

Marsden Park Developments Pty Ltd c/- Kelleher Nightingale Consulting Pty Ltd Level 10, 25 Bligh St SYDNEY NSW 2000 zac.thomas@knconsult.com.au

Thank you for your assistance and advice in this matter. If you have any questions or would like to discuss this further, please contact our office on 02 9232 5373.

Yours sincerely,



22 June 2020

CEO Deerubbin Local Aboriginal Land Council PO Box 40 PENRITH BC NSW 2751

Via email: staff@deerubbin.org.au; srandall@deerubbin.org.au

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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Yours sincerely,



22 June 2020

Senior Team Leader, Planning Metro Branch, Greater Sydney Region Department of Planning, Industry and Environment PO Box 644 PARRAMATTA NSW 2124 Via email: gs.ach@environment.nsw.gov.au

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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Yours sincerely,



22 June 2020

The General Manager Greater Sydney Local Land Services PO Box 4515 WESTFIELD PENRITH NSW 2750

Dear Sir/Madam

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Yours sincerely,



22 June 2020

National Native Title Tribunal Sydney Office, Operations East Via email: GeospatialSearch@NNTT.gov.au

Dear Sir/Madam

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Yours sincerely,



22 June 2020

NTSCORP Limited PO Box 2105 STRAWBERRY HILLS NSW 2012

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

Request for information regarding potential Aboriginal stakeholders as required under the 
Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010

Marsden Park Developments Pty Ltd is proposing to develop four world-class warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown City Council local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

Marsden Park Developments Pty Ltd will be seeking approval through a State Significant Development (SSD) application under the NSW *Environmental Planning & Assessment Act 1979.* Marsden Park Developments Pty Ltd proposes to carry out consultation with Aboriginal communities in accordance with the DPIE *Aboriginal cultural heritage consultation requirements for proponents 2010.* The purpose of this consultation process is to inform the preparation of an Environmental Impact Statement (EIS) and to assist DPIE in its consideration of the proposal. Kelleher Nightingale Consulting Pty Ltd has been engaged by Marsden Park Developments Pty Ltd to facilitate the consultation process.

In following section 4.1.2 of the consultation requirements, it would be appreciated if your organisation could provide a list of the names of Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects or Aboriginal places at Marsden Park, NSW. It would be appreciated if you could provide your response to:

Marsden Park Developments Pty Ltd c/- Kelleher Nightingale Consulting Pty Ltd Level 10, 25 Bligh St SYDNEY NSW 2000 zac.thomas@knconsult.com.au

Thank you for your assistance and advice in this matter. If you have any questions or would like to discuss this further, please contact our office on 02 9232 5373.

Yours sincerely,



22 June 2020

Office of the Registrar Aboriginal Land Rights Act PO Box 5068 PARRAMATTA NSW 2124

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
Request for information regarding potential Aboriginal stakeholders as required under the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010

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Marsden Park Developments Pty Ltd c/- Kelleher Nightingale Consulting Pty Ltd Level 10, 25 Bligh St SYDNEY NSW 2000 zac.thomas@knconsult.com.au

Thank you for your assistance and advice in this matter. If you have any questions or would like to discuss this further, please contact our office on 02 9232 5373.

Yours sincerely,

From: Sue Galt <Sue.Galt@blacktown.nsw.gov.au>

Sent: Monday, 3 August 2020 11:49 AM

**To:** Zac Thomas

Subject: STAGE 3 FACILITIES SYDNEY BUSINESS PARK - MARSDEN PARK, NSW

Dear Zac,

Thank you for your email dated 22 June 2020 regarding Aboriginal stakeholders contact details relevant to the above.

The NSW Department of Planning, Industry and Environment (DPIE) has advised us that the consultation list for this purpose is confidential and may only be obtained on a project by project basis from the agency administering Aboriginal Cultural Heritage regulation (e.g. Aboriginal Heritage Impact Permits (AHIPS), Registered Aboriginal Parties, Care Agreements, etc). We have been advised that as from 1 July 2020 enquiries regarding Aboriginal Cultural Heritage regulation (e.g. Aboriginal Heritage Impact Permits (AHIPS), Registered Aboriginal Parties, Care Agreements, etc) should now be referred to Heritage NSW.

Your enquiry regarding Aboriginal stakeholders therefore is best directed to <a href="https://heritagemailbox@environment.nsw.gov.au">heritagemailbox@environment.nsw.gov.au</a>, or (02) 9873 8500.

Regards,

Sue.



## Sue Galt Senior Policy/Heritage Planner

9839 6216 0414 194 474 Sue.Galt@blacktown.nsw.gov.au PO Box 63 Blacktown NSW 2148 blacktown.nsw.gov.au

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Our reference: Doc20/534817

Zac Thomas Kelleher Nightingale Consulting Pty Ltd Level 10, 25 Bligh St SYDNEY NSW 2000

Dear Zac,

Thank you for your letter dated 22 June 2020 to the Department of Planning, Industry and Environment regarding obtaining a list of the Aboriginal stakeholders that may have an interest in the proposed development at Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please note: on 1 July 2020 the Aboriginal Cultural Heritage Regulation functions under the *National Parks* and *Wildlife Act 1974* were transferred from the Department of Planning, Industry and Environment into Heritage NSW in the Department of Premier and Cabinet (DPC).

Please find attached the list of Aboriginal stakeholders known to DPC that may have an interest in the project.

As the Planning and Assessment Group in the Department of Planning, Industry and Environment is the approval authority for this project, the consultation process should be in accordance with the relevant guidelines as stipulated by the Group.

If you wish to discuss any of the above matter further please email: <a href="mailto:heritagemailbox@environment.nsw.gov.au">heritagemailbox@environment.nsw.gov.au</a>

Yours sincerely

10 July 2020

Jackie Taylor Senior Team Leader Aboriginal Cultural Heritage Regulation - South Heritage NSW

# LIST OF ABORIGINAL STAKEHOLDERS FOR THE <u>GREATER SYDNEY BRANCH</u> HELD BY OEH FOR THE PURPOSES OF THE *ABORIGINAL CULTURAL HERITAGE CONSULTATION REQUIREMENTS FOR PROPONENTS 2010*

These lists are provided to proponents in accordance with section 4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (the "Consultation Requirements") which commenced on 12 April 2010.

The consultation process involves getting the views of, and information from, Aboriginal people and reporting on these. It is not to be confused with other field assessment processes involved in preparing a proposal and an application. Consultation does not include the employment of Aboriginal people to assist in field assessment and/or site monitoring. Aboriginal people may provide services to proponents through a contractual arrangement however, this is separate from consultation. The proponent is not obliged to employ those Aboriginal people registered for consultation. Consultation as per these requirements will continue irrespective of potential or actual employment opportunities for Aboriginal people.

A copy of the Consultation Requirements can be found on the OEH website at: http://www.environment.nsw.gov.au/resources/cultureheritage/commconsultation/09781ACHconsultreq.pdf.

Under the Consultation Requirements; a proponent is required to provide Aboriginal people who hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and/or places as relevant to the proposed project area, with an opportunity to be involved in consultation. Section 3.3.1 of the Consultation Requirements states that Aboriginal people who can provide this information are, based on Aboriginal lore and custom, the traditional owners or custodians of the land that is the subject of the proposed project.

The Consultation Requirements also state that:

Traditional owners or custodians with appropriate cultural heritage knowledge to inform decision making who seek to register their interest as an Aboriginal party are those people who:

- continue to maintain a deep respect for their ancestral belief system, traditional lore and custom
- recognise their responsibilities and obligations to protect and conserve their culture and heritage and care for their traditional lands or Country
- have the trust of their community, knowledge and understanding of their culture, and permission to speak about it.

Please note: the placement of an organisation's name on any OEH Aboriginal stakeholder list for the Consultation Requirements does not override a proponent's requirement to also advertise in the local newspaper and to seek from other sources the names of any other Aboriginal people who may hold cultural knowledge as required under clause 80C of the National Parks and Wildlife Regulation 2009.

#### How to use this list

- 1. Determine which Local Government Area/s (LGA/s) your project area falls into
- 2. Identify which organisations and individuals on the list have an interest in the LGA/s relevant to your project identified in column 6 of the list
- 3. Contact the organisations/individuals who have indicated an interest in the relevant LGA/s and invite them to register an interest in your project

Do not reproduce the attached list in publicly available reports and other documents. Your report should only contain the names of the organisations and individuals who you have invited to register an interest in your project and those who have registered as stakeholders for your project.

PLEASE NOTE: THE STAKEHOLDER LIST HAS NOT BEEN UPDATED TO INCLUDE THE RECENT

COUNCIL MERGERS AND NAME CHANGES. PLEASE CONSIDER THE PRE-MERGER COUNCIL

BOUNDARIES WHEN DETERMINING WHO SHOULD BE INVITED TO REGISTER FOR YOUR

PROJECT.

Last updated 15 June 2020

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
Deerubbin Local Aboriginal Land Council	Kevin Cavanagh	(02) 4724 5600	srandall@deerubbin.org.au Reception@deerubbin.org.au F: (02) 4722 9713	Level 1, Suite 3 291-295 High Street, Penrith NSW 2750 PO Box 40, Penrith NSW 2751	Hawkesbury Blacktown Penrith Fairfield	Holroyd Blue Mountains The Hills Shire Parramatta	
Tharawal Local Aboriginal Land Council	Robyn Straub (CEO)	(02) 46810059	ceo@tharawal.com.au reception@tharawal.com.au	PO Box 245 Thirlmere NSW 2572	Camden Campbelltown Wollondilly	Sutherland Liverpool	
Metropolitan Local Aboriginal Land Council	Nathan Moran	(02) 83949666	officeadmin@metrolalc.org.au	PO Box 1103 Strawberry Hills NSW 2016	The Hills Shire Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Hawkesbury	Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Gandangara Local Aboriginal Land Council	Melissa Williams CEO	(02) 96025280	mwilliams@glalc.org.au	PO Box 1038 Liverpool NSW 2170	Liverpool Fairfield Holroyd Parramatta	Auburn Bankstown Sutherland	
La Perouse Local Aboriginal Land Council	Chris Ingrey	(02) 9311 4282	admin@laperouse.org.au	PO Box 365 Matraville NSW 2036	Sutherland Randwick Botany Bay Waverly	Woollahra Sydney Rockdale	
Parramatta City Council Aboriginal Advisory Committee	Parramatta City Council	(02)9806 5050	Not provided	PO Box 32, Parramatta, NSW, 2124	Parramatta		
Holroyd City Council Advisory Committee	Holroyd City Council	(02) 9840 9840	Not provided	P.O. Box 42, Merrylands, NSW 2160	Holroyd		
Darug Custodian Aboriginal Corporation	Justine Coplin	0414 962 766	justinecoplin@optusnet.com.au	PO Box 81, Windsor NSW 2756	Hawkesbury Blacktown Penrith Fairfield Holroyd Blue Mountains	Camden Campbelltown The Hills Shire Liverpool Parramatta	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
Darug Tribal Aboriginal Corporation	Not provided	02 9622 4081	Not provided	PO Box 441, Blacktown NSW 2148	Hawkesbury Blacktown Penrith Fairfield Holroyd Blue Mountains	Camden Campbelltown The Hills Shire Liverpool Parramatta	
Darug Aboriginal Cultural Heritage Assessments	Gordon Morton	02 9410 3665 or 0422 865 831	Not provided	Unit 9, 6 Chapman Avenue, Chatswood, NSW 2067	Hawkesbury Blacktown Penrith Fairfield Holroyd Blue Mountains Camden Campbelltown The Hills Shire Liverpool Parramatta Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown	Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Darug Land Observations	Jamie Workman and Anna Workman	0418 494 951 0413 687 279	daruglandobservations@gmail.com	PO Box 173, Ulladulla, NSW 2539	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove	Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
Darug Aboriginal Land Care	Mark Dyer	0428 714 242	markdyer2009@live.com.au	PO Box 405 Donnside 2767 NSW	Hawkesbury Blacktown Penrith Fairfield Holroyd	Camden Campbelltown The Hills Shire Liverpool Parramatta	
Ken Foster		0411 818 091	Not provided	68 Australia St Matraville	Sutherland		
La Perouse Botany Bay Corporation	Yvonne Simms	04660 94491	Fax (02) 9311 3440	10 Murrong Place, La Perouse NSW 2036	Sutherland		
Norma Simms		04660 94491	Not provided	10 Murrong Place, La Perouse NSW 2036	Sutherland		
Matthew and Andrew Coe		(08)83442196	Not provided	37 Derlanger Avenue, Collingswood, South Australia 5081	Sutherland		
Gundungurra Aboriginal Heritage Association Inc	Merle Williams	02 4757 3223	Not provided	PO Box 31, Lawson NSW 2783	Blue Mountains		
Gundungurra Tribal Council Aboriginal Corporation	Sharon Brown	02 4729 3713	Not provided	PO Box 7244, Leura NSW 2780	Blue Mountains		
Trevor Robinson		Not provided	Not provided	PO Box 73, Peak Hill, NSW 2869	Blue Mountains		
Tania Matthews		0409 193 612/ (02) 67924038	aboriginalhistoryhunter@gmail.co m	U2 11 Walowa Street, Narrabri, NSW 2390	Blue Mountains		
A1 Indigenous Services	Carolyn Hickey	0411 650 057	cazadirect@live.com	10 Marie Pitt Place Glenmore Park 2745 NSW.	Blue Mountains Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill		Carolyn is Wonnarua

Organisation/	Contact Name	Phone Number	Email Address/	Postal	LGA's		Additional information
Individual			Fax	Address	Hurstville Kogarah Ku-ring-gai Lane Cove Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly		
Cubbitch Barta	Glenda Chalker	0427 218 425	Not provided	55 Nightingale Rd, Pheasants Nest NSW 2574	Camden Campbelltown	Liverpool Wollondilly	
	Rebecca Chalker	Not Provided	Not provided	99 Menangle street, Picton 2571			
Eric Keidge		04311 66423	Not provided	11 Olsson Close Hornsby Heights NSW 2077	The Hills Shire Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay	Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Gunjeewong Cultural Heritage Aboriginal Corporation	Cherie Carroll Turrise	0438 428 805	gunjeewong@yahoo.com.au	1 Bellvue Place, Portland NSW, 2847	Hawkesbury Blacktown Penrith Fairfield	Holroyd Camden Campbelltown Parramatta	Cherie is a Ngunnawal Elder however lived in the Western Sydney area during her childhood.

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
							She recognises she is not from the area but has associations
Corroboree Aboriginal Corporation	Marilyn Carroll- Johnson	0415911159	corroboreecorp@bigpond.com	PO Box 3340, Rouse Hill, NSW 2155	Western Sydney Camden Hawkesbury Blacktown Penrith	Campbelltown Parramatta Holroyd Camden	Ngunnawal and lives in Western Sydney
Murra Bidgee Mullangari Aboriginal Corporation	Darleen Johnson Ryan Johnson	0490 051 102 0475565517	murrabidgeemullangari@yahoo.co m.au	PO Box 3035 Rouse Hill NSW 2155	Fairfield  Hawkesbury Blacktown Penrith Fairfield Blue Mountains	Holroyd Camden Campbelltown Parramatta	Born in Blacktown Hospital and worked in the Aboriginal community in the Western suburbs.
Muragadi Heritage Indigenous Corporation	Jesse Johnson	0447 970 049	muragadi@yahoo.com.au	5 Hession Road, Nelson, NSW 2765	Western Sydney Camden	Campbelltown Parramatta	Ngunnawal and lives in Western Sydney
Bidjawong Aboriginal Corporation	James Carroll	0433 224 324	Not provided	PO Box 124, Round Corner, NSW 2158	Hawkesbury Blacktown Penrith Fairfield	Holroyd Camden Campbelltown Parramatta	
Kamilaroi Yankuntjatjara Working Group	Phil Khan	0434 545 982	philipkhan.acn@live.com.au	78 Forbes Street, Emu Plains, NSW 2750	Blue Mountains Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Canberra Hawkesbury The Hills Holroyd Hornsby		

Organisation/	Contact Name	Phone Number	Email Address/	Postal	LGA's	Additional information
Individual	Marria Clat	0.404077504	Fax	Address	Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Wurrumay Pty Ltd	Kerrie Slater and Vicky Slater	0421077521	wurrumay@hotmail.com;	89 Pyramid street, Emu Plains NSW 2750 PO Box 414 Emu Plains NSW 2750	Hawkesbury Blacktown Penrith Fairfield Holroyd Blue Mountains Sutherland Liverpool  Camden Campbelltown Parramatta Wollondilly The Hills Shire Auburn Bankstown Bankstown	
Warragil Cultural Services	Aaron Slater (Manager)	0481 280 067	Warragil_c.s@hotmail.com		Hawkesbury Holroyd Blacktown Camden Penrith Campbelltown Fairfield Liverpool Parramatta	
Tocomwall	Scott Franks	0404 171 544	Not provided	PO Box 76, Caringbah NSW 1495	Hawkesbury Strathfield Blacktown Burwood Penrith Ashfield Fairfield Auburn Holroyd Canada Bay Camden Leichhardt Campbelltown Manly	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
D'harawal Mens Aboriginal Corporation	Elwyn Brown	0401920982	Not provided	187 Riverside Drive, Airds NSW	The Hills Shire Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Camden Campbelltown	Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Wollondilly	
·				2560	Campbellown		
Amanda Hickey Cultural Services	Amanda Hickey	0434 480 588	amandahickey@live.com.au	57 Gough st emu plains 2750	Blue Mountains Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove	Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Liverpool Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Penrith Parramatta Marrickville Wollondilly	Amanda is Wonnarua
Widescope Indigenous Group	Steven Hickey and Donna Hickey	0425 230 693 (Steven) 0425 232 056 (Donna)	Not provided	73 Russell Street, Emu Plains, NSW 2750	Hawkesbury Blacktown Penrith	Fairfield Holroyd Parramatta Blue Mountains	
Dhinawan Culture & Heritage Pty Ltd	Stephen Fields	0411232285	dhinawan.ch@gmail.com		Hawkesbury Blacktown		

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Penrith Fairfield Cumberland Parramatta Hornsby The Hills Hornsby Ryde Auburn Blue Mountains Campbelltown Liverpool		
HSB Consultants	Patricia Hampton	0424 142 216	Not provided	62 Ropes Crossing Boulevard, Ropes Crossing 2760	Hawkesbury Blacktown Penrith	Fairfield Holroyd Parramatta	
Rane Consulting	Tony Williams	02 88246991	ajw1901@bigpond.com	1 Pyrenees Way Beaumont Hills NSW 2155	Hawkesbury Blacktown Penrith	Fairfield Holroyd Parramatta	
Anthony Williams		0456 399 687	Not provided	Unit 2 / 24 Goodwin Street Narrabeen NSW 2101	Hawkesbury Blacktown Penrith	Fairfield Holroyd Parramatta	
Gunyuu	Kylie Ann Bell	Not provided	gunyuuchts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.
Walbunja	Hika Te Kowhai	0402 730 612	walbunja@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Wollondilly	
Badu	Karia Lea Bond	0476 381 207	Not provided	11 Jeffery Place, Moruya, NSW 2537	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Goobah Developments	Basil Smith	0405 995 725	Not provided	66 Grantham Road, Batehaven NSW, 2536	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
Wullung	Lee-Roy James Boota	0403 703 942	Not provided	54 Blackwood Street, Gerringong, NSW, 2534	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Yerramurra	Robert Parson	Not provided	yerramurra@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Nundagurri	Newton Carriage	Not Provided	nundagurri@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Pittwater Botany Bay Ryde Warringah Willoughby	
Murrumbul	Mark Henry	Not provided	murrumbul@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.
Jerringong	Joanne Anne Stewart	0422 800 184	jerringong@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Pemulwuy CHTS	Pemulwuy Johnson	0425 066 100	pemulwuyd@gmail.com	14 Top Place, Mt Annan	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden	Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Campbelltown The Hills Shire Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown	Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Bilinga	Simalene Carriage	Not provided	bilingachts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.
Munyunga	Kaya Dawn Bell	Not provided	munyungachts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
Wingikara	Hayley Bell	Not provided	wingikarachts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.
Minnamunnung	Aaron Broad	0402 526 888	Not provided	1 Waratah Avenue, Albion Park Rail NSW 2527	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Walgalu	Ronald Stewart	Not provided	walgaluchts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	
Thauaira	Shane Carriage	Not provided	thauairachts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Dharug	Andrew Bond	Not provided	dharugchts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Bankstown Strathfield Randwick Woollahra	Blue Mountains Burwood The Hills Waverly Wollondilly	
Gulaga	Wendy Smith	Not Provided	gulagachts@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Biamanga	Seli Storer	Not Provided	biamangachts@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
				7.00		Waverly Wollondilly	
Callendulla	Corey Smith	Not Provided	cullendullachts@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Murramarang	Roxanne Smith	Not Provided	murramarangchts@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
DJMD Consultancy	Darren Duncan	0410 510 397	darrenjohnduncan@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Parramatta Sydney Marrickville Strathfield Warringah Willoughby Blue Mountains Burwood The Hills Ryde	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater	Darren is associated with Metro and Deerubbin LALCs
Butucarbin Aboriginal Corporation	Jennifer Beale	(02)9832 7167	butuheritage@gmail.com.	PO Box E18, Emerton, NSW 2770	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	Preferred contact via email
Didge Ngunawal Clan	Lillie Carroll Paul Boyd	0426 823 944	didgengunawalclan@yahoo.com.a u	33 Carlyle Crescent Cambridge Gardens NSW 2747	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	
Ginninderra Aboriginal Corporation	Steven Johnson and Krystle Carroll	0406991221	Ginninderra.corp@gmail.com	PO BOX 3143 Grose Vale NSW 2754	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	
Garrara Aboriginal Corporation	Raymond Ingrey		raymond@bariyu.org.au		Sutherland Liverpool Camden Campbelltown Wollondilly		
Duncan Falk Consultancy	Duncan Falk	0406 610 644	duncanfalk@hotmail.com	34 Robinia Drive, Bowral NSW 2576	Camden Campbelltown		
Sharon Hodgetts		0405288814	sharonhodgetts@hotmail.cor	21/29 Central Coast Hwy West Gosford 2250	Hawkesbury		
Wailwan Aboriginal Group	Philip Boney	0436 483 210	waarlan12@outlook.com		Hawkesbury Blacktown Penrith	Ashfield Auburn Canada Bay	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly	
Guntawang Aboriginal Resources Incorporated	Wendy Morgan	0414 964 657 9601 7183	Wenlissa01@hotmail.com	113 Reservoir Road Mt Pritchard NSW 2170	Camden Campbelltown Liverpool Fairfield Holroyd Wollondilly Blue Mountains	,	
Barking Owl Aboriginal Corporation	Mrs Jody Kulakowski (Director)	0426 242 015	barkingowlcorp@gmail.com	2-65/69 Wehlow St. Mt Druitt	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
marriada			Tux	7 tuar occ		Wollondilly	
Yulay Cultural Services	Arika Jalomaki (Manager)	0411 048 794	yulayculturalservices@gmail.com	15 Rowley Place, Airds NSW 2560	Deerubbin LALC Tharawal LALC Gandangarra LALC	·	LGAs of interest not specified, rather, LALC boundaries within which the organisation wish to be consulted
Thoorga Nura	John Carriage (Chief Executive Officer)	0401 641 299	thoorganura@gmail.com	50B Hilltop Crescent, Surf Beach, 2536, NSW	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove	Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Barraby Cultural Services	Lee Field (Manager)	0423 906 606	barrabyculturalservices@gmail.co m	6 Macgibbon Parade, Old Erowal Bay, NSW 2540	Tharawal LALC Gandagarra LALC		LGAs of interest not specified, rather, LALC boundaries within which the organisation wish to be consulted
Yurrandaali Cultural Services	Bo Field (Manager)	0457 546 643	yurrandaali_cs@hotmail.com	3 Sheeran Street, Old Erowal Bay NSW 2540	Tharawal LALC Gandagarra LALC		LGAs of interest not specified, rather, LALC boundaries within which the organisation wish to be consulted
Darug Boorooberongal Elders Aboriginal Corporation	Paul Hand (chairpe rson)	0456786738	paulhand1967@gmail.com	PO.Box 14 Doonside NSW 2767	Ashfield Auburn Bankstown Blacktown Blue Mountains	Leichhardt Liverpool Manly Marrickville Mosman North Sydney	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove	Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
B.H. Heritage Consultants	Ralph Hampton Nola Hampton	0435 785 138 0401 662 531	hamptonralph46@gmail.com kinghampton@77gmail.com	184 Captain Cook Drive Willmot 2770 NSW 95 Mount Ettalong Road Umina Beach 2257 NSW	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	Nola and Ralph would BOTH like to be notified of all projects
Ngambaa Cultural Connections	Kaarina Slater	0417861882	ngambaaculturalconnections@hot mail.com	6 Natchez Cresent, Greenfield Park NSW 2167	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden	Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater	LALC boundaries within which the organisation wish to be consulted:  Deerubbin LALC Gandangarra LALC Tharawal LALC

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove	Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Goodradigbee Cultural & Heritage Aboriginal Corporation,	Caine Carroll	0410974236	goodradigbee1@outlook.com	1 Morilla Road, East Kurrajong NSW 2758	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove	Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Mura Indigenous Corporation,	Phillip Carroll	0448824188	mura.indigenous@bigpond.com	11 Nargal Street Flinders NSW 2529	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay	Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Hawkesbury Su The Hills Syn Holroyd Wa Hornsby Wa Hunter's Hill Will Hurstville Wo	de rathfield therland dney arringah averley lloughby pollahra pllondilly	
Aragung Aboriginal Cultural Heritage Site Assessments	Jamie Eastwood	0427793334 0298323732	James.eastwood@y7mail.com	33 Bulolo Drive Whalan NSW 2770	Ashfield Lei Auburn Liv Bankstown Ma Blacktown Ma Blue Mo Mountains No Botany Bay Pa Burwood Pe Camden Pitt Campbelltown Canada Bay Ro Canterbury Ry Fairfield Str Hawkesbury Sur The Hills Sy Holroyd Wa Hornsby Wa Hunter's Hill Wil Hurstville	ichhardt rerpool anly arrickville osman orth Sydney urramatta unrith twater undwick ockdale de athfield therland dney arringah averley lloughby oollahra ollondilly	
Louise Adermann	Louise Adermann	0405037869	louiseadermann@hotmail.com	Number 10/8 Selmon Street Sans Souci 2219 NSW	Bayside Council. The Bayside Council area includes the suburbs of Arncliffe, Banksia, Banksmeadow , Bardwell Park, Bardwell Valley, Bexley, Bexley North, Botany,		

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Brighton-Le-Sands, Carlton (part), Daceyville, Dolls Point, Eastgardens, Eastlakes, Hillsdale, Kingsgrove (part), Kogarah (part), Kyeemagh, Mascot, Monterey, Pagewood, Ramsgate (part), Ramsgate Beach, Rockdale, Rosebery (part), Sandringham, Sans Souci (part), Turrella and Wolli Creek		
Paul Gale	Paul Gale	0404652922	Cenobite100@gmail.com	67 Ginahgullah Avenue Gross Vale NSW 2753	Blue Mountains Blacktown Hawkesbury		
Waawaar Awaa	Rodney Gunther	0410580962	Waawaar.awaa@gmail.com	15 Bungonia Street Prestons NSW 2170	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay	Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
Clive Freeman	Clive Freeman	Mob:0437721481 Home Number: 02-44421117	clive.freeman@y7mail.com	6 Dhugan Close Wreck Bay Aboriginal Community JBT 2540	Canterbury Fairfield Sutherland Hawkesbury The Hills Holroyd Hornsby Hornsby Hunter's Hill Kogarah Ku-ring-gai Lane Cove Blacktown, Penrith Fairfield Parramatta Blue Mountains Holroyd Bankstown Liverpool Camden Campbelltown Wollondilly Sutherland Kogarah Randwick Auburn Canada Bay Strathfield Sydney Woollahra Waverley Burwood Ashfield	
Guringai Tribal Link Aboriginal Corporation	Tracey Howie	0404 182 049	tracey@guringai.com.au	PO Box 4061 Wyongah NSW 2259	Leichhardt Marrickville  North Sydney Lane Cove Hornsby Ku-Ring-Gai Pittwater Hawkesbury	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
Galamaay Cultural Consultants (GCC)	Robert Slater	Mob: 0401 871 526	galamaay@hotmail.com		121 Robert Street, Tamworth NSW 2340	Penrith Fairfield Parramatta Holroyd Bankstown Liverpool Camden Campbelltown Wollondilly Sutherland Auburn

# **Zac Thomas**

From: Barry Gunther < Barry.Gunther@environment.nsw.gov.au>

**Sent:** Friday, 10 July 2020 11:58 AM

**To:** Zac Thomas

**Subject:** RAP list for the Stage 3' of Sydney Business Park, within the Marsden Park

Industrial Precinct in Western Sydney, NSW.

**Attachments:** SSD Planning and Environment Letter Stage 3 of Sydney Business Park within the

Marsden Park Industrial Precinct in Western Sydney NSW.doc; 4.1.2\_DPIE\_

220620.pdf; GSB Stakeholder list - updated 15 June 2020.docx

Follow Up Flag: Follow up Flag Status: Flagged

Dear Zac,

Please find attached your request for the DPC RAP list for the Stage 3qof Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Apologies for the lateness as we are transitioning from DPIE to DPC.

regards

## Barry Gunther, Aboriginal Heritage Planner Officer

Heritage NSW, Community Engagement, Department of Premier and Cabinet Level 6, 10 Valentine Ave, Parramatta | Locked Bag 5020 Parramatta 2124 T: 02 9995 6830 | barry.gunther @environmrnt.nsw.gov.au

Please lodge all Applications to <a href="https://example.com/heritagemailbox@environment.nsw.gov.au">heritagemailbox@environment.nsw.gov.au</a>

I acknowledge and respect the traditional custodians and ancestors of the lands I work across.



# Heritage NSW and coronavirus (COVID-19)

Heritage NSW has taken steps to protect the safety, health and wellbeing of our staff, communities and customers. Whilst our offices remain open, we have put in place flexible working arrangements for our teams across NSW and continue to adapt our working arrangements as necessary. Face-to-face meetings and field work/site visits with our customers are subject to rules on gatherings and social distancing measures. We thank you for your patience and understanding at this time.

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# **Zac Thomas**

From: Geospatial Search Requests < GeospatialSearch@NNTT.gov.au>

Sent: Thursday, 25 June 2020 7:20 PM

**To:** Zac Thomas

Subject: RE: SR20/588 - Native Title Search Request - (our ref #1947) - SR20/588

Attachments: 20200624\_SR20\_588\_NSW\_Blacktown\_City\_Council.xlsx

# **UNCLASSIFIED**

Native title search - NSW LGA - Blacktown City Council

Your ref: 1947 - Our ref: SR20/588

Dear Zac Thomas,

Thank you for your search request received on 22 June 2020 in relation to the above area. Based on the records held by the National Native Title Tribunal as at 24 June 2020 it would appear that there are no Native Title Determination Applications, Determinations of Native Title, or Indigenous Land Use Agreements over the identified area. Please find your results attached.

# **Search Results**

The results provided are based on the information you supplied and are derived from a search of the following Tribunal databases:

- Schedule of Native Title Determination Applications
- Register of Native Title Claims
- National Native Title Register
- Register of Indigenous Land Use Agreements
- Notified Indigenous Land Use Agreements

At the time this search was carried out, there were no relevant entries in the above databases.

**Please note**: There may be a delay between a native title determination application being lodged in the Federal Court and its transfer to the Tribunal. As a result, some native title determination applications recently filed with the Federal Court may not appear on the Tribunal's databases.

## The Tribunal accepts no liability for reliance placed on enclosed information

The enclosed information has been provided in good faith. Use of this information is at your sole risk. The National Native Title Tribunal makes no representation, either express or implied, as to the accuracy or suitability of the information enclosed for any particular purpose and accepts no liability for use of the information or reliance placed on it.

If you have any further queries, please do not hesitate to contact us on the free call number 1800 640 501.

Regards,

**Geospatial Searches** 

National Native Title Tribunal | Perth

Email: <a href="mailto:GeospatialSearch@nntt.gov.au">GeospatialSearch@nntt.gov.au</a> | <a href="mailto:www.nntt.gov.au">www.nntt.gov.au</a> | <a href="mailto:www.nntt.gov.au">

From: Zac Thomas <zac.thomas@knconsult.com.au>

**Sent:** Monday, 22 June 2020 3:41 PM

**To:** Geospatial Search Requests < <u>GeospatialSearch@NNTT.gov.au</u>> **Subject:** SR20/588 - FW: Native Title Search Request - (our ref #1947)

Caution: This is an external email. DO NOT click links or open attachments unless you recognise the sender and know the content is safe.

Dear National Native Title Tribunal team,

Could we please request a Native Title search be carried out within the Blacktown City Council Local Government Area.

Please find attached a completed Cover Letter outlining reasons for the search request, a Search Area Map and a completed Request for Search of Tribunal Registers form. The Department of Planning, Industry and Environment requires us to write to various sources of information regarding the names of Aboriginal people who may have an interest in the project.

If you require any further information please don't hesitate to contact me.

Kind Regards,

#### **Zac Thomas**

Heritage Administration Assistant **Kelleher Nightingale Consulting Pty Ltd** Level 10, 25 Bligh St Sydney NSW 2000 p 02 9232 5373

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# **Zac Thomas**

From: Rachel Rewiri <rachel.rewiri3@oralra.nsw.gov.au>

**Sent:** Thursday, 30 July 2020 9:09 AM

**To:** Zac Thomas

**Subject:** RE: Stage 3 Facilities Sydney Business Park - Marsden Park, NSW

**Attachments:** Kelleher Nightingale - Reply Letter 30072020.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Good Morning Zac,

Please find attached, results as per your ACHA request dated 22/06/2020

I apologise for the delay in replying.

Kind Regards

Rachel Rewiri Project Officer (Aboriginal Owners) Office of the Registrar, *Aboriginal Land Rights Act 1983* 

Ph: 8633 1266

www.oralra.nsw.gov.au

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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Report this message as spam



30 July 2020

By email: zac.thomas@kconsult.com.au

Zac Thomas Kelleher Nightingale Consulting Pty Ltd Level 10, 25 Bligh Street SYDNEY NSW 2000

Dear Zac.

# Request - Search for Registered Aboriginal Owners

We refer to your letter dated 22 June 2020 seeking the identification of Aboriginal organisations and people who may have an interest in the proposed warehouse and distribution facilities within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Under Section 170 of the Aboriginal Land Rights Act 1983 the Office of the Registrar is required to maintain the Register of Aboriginal Owners (RAO). A search of the RAO has shown that there are currently no Registered Aboriginal Owners in the project area.

We suggest you contact the Deerubbin Local Aboriginal Land Council on (02) 4724 5600 or via email kcavanagh@deerubbin.org.au as they may wish to participate.

Yours sincerely

Rachel Rewiri Project Officer

Office of the Registrar, Aboriginal Land Rights Act 1983



17 July 2020

Carolyn Hickey
A1 Indigenous Services
cazadirect@live.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

Marsden Park Developments Pty Ltd will be seeking approval through a State Significant Development (SSD) application under the NSW *Environmental Planning & Assessment Act 1979*. Marsden Park Developments Pty Ltd proposes to carry out consultation with Aboriginal communities in accordance with the Heritage NSW *Aboriginal cultural heritage consultation requirements for proponents 2010*. The purpose of this consultation process is to inform the preparation of an Environmental Impact Statement and to assist Heritage NSW (as part of the Department of Premier and Cabinet) in its consideration of the proposal. Kelleher Nightingale Consulting Pty Ltd has been engaged by Marsden Park Developments Pty Ltd to facilitate the consultation process.

You or your organisation have been identified as a possible stakeholder for the project area. If you (or a member of your organisation) have an interest in the project area and hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places at Marsden Park, please register your interest in the consultation process using the details below:

Kelleher Nightingale Consulting Pty Ltd Level 10, 25 Bligh Street, Sydney NSW 2000

Phone: 9232 5373

Email: zac.thomas@knconsult.com.au

### The closing date for registration of interest is 31 July 2020.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names and contact details of each Aboriginal person who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Yours sincerely,



17 July 2020

Jamie Eastwood Aragung Aboriginal Cultural Heritage Site Assessments James.eastwood@y7mail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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Phone: 9232 5373

Email: zac.thomas@knconsult.com.au

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Yours sincerely,



17 July 2020

Amanda Hickey
Amanda Hickey Cultural Services
amandahickey@live.com.au

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

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Kelleher Nightingale Consulting Pty Ltd Level 10, 25 Bligh Street, Sydney NSW 2000

Phone: 9232 5373

Email: zac.thomas@knconsult.com.au

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Yours sincerely,



17 July 2020

Anthony Williams Unit 2/24 Goodwin Street Narrabeen NSW 2101

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

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Phone: 9232 5373

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Yours sincerely,



17 July 2020

Jennifer Beale
Butucarbin Aboriginal Corporation
butuheritage@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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17 July 2020

James Carroll Bidjawong Aboriginal Corporation PO Box 124 Round Corner NSW 2158

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
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Yours sincerely,



17 July 2020

Karia Lea Bond Badu 11 Jeffery Place Moruya NSW 2537

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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17 July 2020

Ralph Hampton and Nola Hampton B.H. Heritage Consultants hamptonralph46@gmail.com kinghampton77@gmail.com

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NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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17 July 2020

Seli Storer Biamanga biamangachts@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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17 July 2020

Simalene Carriage Bilinga bilingachts@gmail.com

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17 July 2020

Mrs Jody Kulakowski
Barking Owl Aboriginal Corporation
barkingowlcorp@gmail.com

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17 July 2020

Corey Smith
Callendulla
cullendullachts@gmail.com

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Clive Freeman clive.freeman@y7mail.com

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17 July 2020

Gordon Morton
Darug Aboriginal Cultural Heritage Assessments
Unit 9, 6 Chapman Avenue
Chatswood NSW 2067

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17 July 2020

Mark Dyer Darug Aboriginal Land Care markdyer2009@live.com.au

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17 July 2020

Paul Hand Darug Boorooberongal Elders Aboriginal Corporation paulhand1967@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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17 July 2020

Justine Coplin
Darug Custodian Aboriginal Corporation
justinecoplin@optusnet.com.au

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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17 July 2020

Stephen Fields
Dhinawan Culture & Heritage Pty Ltd
dhinawan.ch@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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Andrew Bond Dharug dharugchts@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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Phone: 9232 5373

Email: zac.thomas@knconsult.com.au

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Yours sincerely,



17 July 2020

Darren Duncan
DJMD Consultancy
darrenjohnduncan@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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17 July 2020

CEO
Deerubbin Local Aboriginal Land Council srandall@deerubbin.org.au

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17 July 2020

Jamie Workman and Anna Workman Darug Land Observations daruglandobservations@gmail.com

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17 July 2020

Lillie Carroll and Paul Boyd Didge Ngunawal Clan didgengunawalclan@yahoo.com.au

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17 July 2020

Darug Tribal Aboriginal Corporation PO Box 441 Blacktown NSW 2148

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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17 July 2020

Steven Johnson and Krystle Carroll Ginninderra Aboriginal Corporation Ginninderra.corp@gmail.com

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17 July 2020

Caine Carroll Goodradigbee Cultural & Heritage Aboriginal Corporation goodradigbee1@outlook.com

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17 July 2020

Basil Smith Goobah Developments 66 Grantham Road Batehaven NSW 2536

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Wendy Smith Gulaga gulagachts@gmail.com

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17 July 2020

Kylie Ann Bell Gunyuu gunyuuchts@gmail.com

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17 July 2020

Patricia Hampton HSB Consultants 62 Ropes Crossing Boulevard Ropes Crossing NSW 2760

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Joanne Anne Stewart Jerringong jerringong@gmail.com

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17 July 2020

Phil Khan Kamilaroi Yankuntjatjara Working Group philipkhan.acn@live.com.au

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17 July 2020

Darleen Johnson Murra Bidgee Mullangari Aboriginal Corporation murrabidgeemullangari@yahoo.com.au

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Jesse Johnson Muragadi Heritage Indigenous Corporation muragadi@yahoo.com.au

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Yours sincerely,



17 July 2020

Phillip Carroll Mura Indigenous Corporation 11 Nargal Street Flinders NSW 2529

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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17 July 2020

Aaron Broad Minnamunnung 1 Waratah Avenue Albion Park Rail NSW 2527

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17 July 2020

Kaya Dawn Bell Munyunga munyungachts@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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17 July 2020

Roxanne Smith
Murramarang
murramarangchts@gmail.com

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17 July 2020

Mark Henry Murrumbul murrumbul@gmail.com

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Kaarina Slater Ngambaa Cultural Connections ngambaaculturalconnections@hotmail.com

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Newton Carriage Nundagurri nundagurri@gmail.com

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Paul Gale Cenobite100@gmail.com

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Pemulwuy Johnson Pemulwuy CHTS pemulwuyd@gmail.com

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Rane Consulting
ajw1901@bigpond.com

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Shane Carriage Thauaira thauairachts@gmail.com

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17 July 2020

Scott Franks Tocomwall PO Box 76 Caringbah NSW 1495

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Rodney Gunther Waawaar Awaa Waawaar.awaa@gmail.com

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Philip Boney Wailwan Aboriginal Group waarlan12@outlook.com

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Hika Te Kowhai Walbunja walbunja@gmail.com

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You or your organisation have been identified as a possible stakeholder for the project area. If you (or a member of your organisation) have an interest in the project area and hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places at Marsden Park, please register your interest in the consultation process using the details below:

Kelleher Nightingale Consulting Pty Ltd Level 10, 25 Bligh Street, Sydney NSW 2000

Phone: 9232 5373

Email: zac.thomas@knconsult.com.au

### The closing date for registration of interest is 31 July 2020.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names and contact details of each Aboriginal person who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Yours sincerely,



17 July 2020

Ronald Stewart Walgalu walgaluchts@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

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Yours sincerely,



17 July 2020

Aaron Slater
Warragil Cultural Services
Warragil\_c.s@hotmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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Yours sincerely,



17 July 2020

Steven Hickey and Donna Hickey Widescope Indigenous Group 73 Russell Street Emu Plains NSW 2750

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

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Yours sincerely,



17 July 2020

Hayley Bell Wingikara wingikarachts@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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Yours sincerely,



17 July 2020

Lee-Roy James Boota Wullung 54 Blackwood Street Gerringong NSW 2534

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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Yours sincerely,



17 July 2020

Kerrie Slater and Vicky Slater Wurrumay Pty Ltd wurrumay@hotmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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Yours sincerely,



17 July 2020

Arika Jalomaki Yulay Cultural Services yulayculturalservices@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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17 July 2020

Robert Parson Yerramurra yerramurra@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

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Yours sincerely,

From: Stephen Fields <dhinawan.ch@gmail.com>

**Sent:** Monday, 20 July 2020 11:03 AM

**To:** Zac Thomas

**Subject:** Re: Notification of project proposal and registration of interest - 1947 Sydney

Business Park Stage 3, Marsden Park - DCH

Hi Zac.

Hope you are well.

Dhinawan Culture and Heritage wish to register our interest in the consultation process for heritage assessment of proposed warehouse and distribution facilities in the area known as £tage 3qof Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please forward relevant information relating to our involvement in the project to this email.

Regards,

## Stephen Fields

**Director Dhinawan Culture and Heritage Pty Ltd**0411232285

On Fri, 17 Jul 2020 at 14:44, Zac Thomas <<u>zac.thomas@knconsult.com.au</u>> wrote:

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as —Stage 3øof Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.
Kind regards,
Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373
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From: Clive Freeman <clive.freeman@y7mail.com>

**Sent:** Monday, 20 July 2020 11:04 AM

**To:** Zac Thomas

**Subject:** Re: Notification of project proposal and registration of interest - 1947 Sydney

Business Park Stage 3, Marsden Park - Clive Freeman

Hi we would like to register an interest in this project.

Kind regards

Clive Freeman managing Director Freeman&marx Pty Ltd

Sent from my iPhone

On 17 Jul 2020, at 2:42 pm, Zac Thomas < <a href="mailto:zac.thomas@knconsult.com.au">zac.thomas@knconsult.com.au</a> wrote:

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

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#### **Zac Thomas**

Heritage Administration Assistant **Kelleher Nightingale Consulting Pty Ltd** Level 10, 25 Bligh St Sydney NSW 2000 p 02 9232 5373

<413\_Clive Freeman\_170720.pdf>

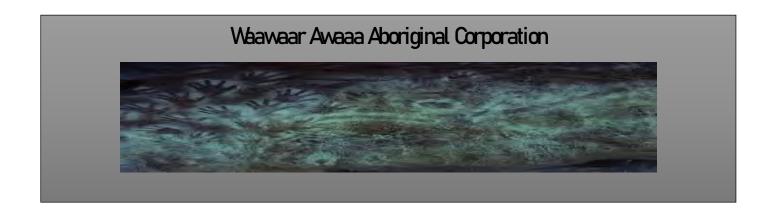
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Heritage Administration Assistant

From: Sent: To: Subject:	Rodney Gunther <waawaar.awaa@gmail.com> Monday, 20 July 2020 5:33 PM Zac Thomas Re: Notification of project proposal and registration of interest - 1947 Sydney</waawaar.awaa@gmail.com>		
Attachments:	Business Park Stage 3, Marsden Park - Waawaar Awaa Registration letter Proposed at Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney.docx		
Hi Zac,			
Registration letter for 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney attached.			
Rodney			
On Fri, Jul 17, 2020 at 2:52 PM	I Zac Thomas < <u>zac.thomas@knconsult.com.au</u> > wrote:		
Dear potential stakeholder,			
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Please do not hesitate to call our office if you have any further queries.			
Kind regards,			
Zac Thomas			



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20/07/2020

Dear Zac,

Waawaar Awaaa Aboriginal Corporation comprises of Aboriginal people that have an interest, cultural connection and cultural knowledge relevant to determining the significance of Aboriginal objects and Places within the project area.

Waawaar Awaaa members, being all Aboriginal have a deep interest and responsibility regarding any potential impacts to Aboriginal objects or places within the traditional cultural areas of **Dharawal**, **Gundungurra** and **Darug** and also within the Local Aboriginal Land Council (LALC) boundary areas of **Tharawal**, **Deerubbin**, **Gandangara**, **La Perouse and Metropolitan LALCs**.

Waawaar Awaaa Aboriginal Corporation is a non- profit organisation that aims to actively participate in the assessment processes and management of Aboriginal objects and Aboriginal places due to possible development impacts.

Waawaar Awaaa Aboriginal Corporation seeks to assist in the management of the natural environmental impacts and to provide employment opportunities for Aboriginal people and endeavours to promote Aboriginal culture to educate the broader community about Australia's Aboriginal rich diverse cultural history.

Employment in cultural heritage assessments is a source of income that organisations such as ours can use to contribute to fund beneficial activities and support to the community therefore. Waawaar Awaaa requests participation in any survey, test excavations and salvage that may assist in informing the cultural values of the area and also contribute to the aims and objectives of the Waawaar Awaaa Aboriginal Corporation.

Waawaar Awaaa Aboriginal Corporation members have a deep diverse understanding of historical and traditional Aboriginal culture, NPWS Legislation and Archaeological field and assessments processes and procedures.

We would like to register our interest for full consultation for the proposed development at 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW and would also request to be advised and involved in any survey and fieldwork opportunities.

regards

Rodney Gunther
Director
Waawaar Awaaa Aboriginal Corporation
Waawaar.awaa@gmail.com

**From:** philip khan <philipkhan.acn@live.com.au>

**Sent:** Tuesday, 21 July 2020 9:40 AM

**To:** Zac Thomas

**Subject:** RE: Notification of project proposal and registration of interest - 1947 Sydney

Business Park Stage 3, Marsden Park - KYWG

**Attachments:** Public Liability Kamilaroi 2020 to 2021 20million cover.pdf; Workers Comp

Insurance for Kamilaroi Yankuntjatjara Working Group Pty Ltd.pdf

Hi Zac,

Thank you for informing us that **Kelleher & Nightingale Consulting** will be involved in an Aboriginal Cultural Heritage Assessment for **1947 Sydney Business Park Stage 3, Marsden Park** &, that you are inviting Aboriginal organisations to register, if they wish too be involved in the community consultation process.

As a senior Aboriginal person for the past 40yrs, I actively participate in the protection of the Aboriginal Cultural Heritage throughout the Sydney Basin, & particularly throughout Western Sydney, on behalf of Kamilaroi Yankuntjatjara Working Group I wish to provide to you my organisation's registration of interest.

I wish to be involved & participate in all levels of consultation/project involvement. I wish to attend all meetings, participate in available field work & receive a copy of the report.

I have attached a copy of Kamilaroi Yankuntjatjara Working group's Public Liability Insurance & Workers Compensation certificate.

Should you wish me to provide further information, please do not hesitate to contact me on 0434545982 or Stefeanie on 0451068480.

Kind Regards Phil Khan



Sent from Mail for Windows 10

From: Zac Thomas <zac.thomas@knconsult.com.au>

Sent: Friday, July 17, 2020 2:48:29 PM

**To:** philip khan < <a href="mailto:philipkhan.acn@live.com.au">philipkhan.acn@live.com.au</a>>

Subject: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden

Park - KYWG

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

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Please do not hesitate to call our office if you have any further queries.

Kind regards,

#### **Zac Thomas**

Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373

From: Zac Thomas

Sent: Friday, 17 July 2020 2:48 PM

To: philip khan

Subject: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden

Park - KYWG

Dear potential stakeholder,

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**Zac Thomas** 

Heritage Administration Assistant **Kelleher Nightingale Consulting Pty Ltd** Level 10, 25 Bligh St Sydney NSW 2000 p 02 9232 5373 Message protected by MailGuard: e-mail anti-virus, anti-spam and content filtering. <a href="http://www.mailguard.com.au/mg">http://www.mailguard.com.au/mg</a>

**From:** Lee Field <barrabyculturalservices@gmail.com>

**Sent:** Tuesday, 21 July 2020 11:40 AM

**To:** Zac Thomas

**Subject:** Registration Of Interest Aboriginal Community Consultation - 1947 Sydney

Business Park Stage 3, Marsden Park

Hi Zac,

Barraby Cultural Services would like to register our interest in the following project: 1947 Sydney Business Park Stage 3, Marsden Park NSW

Kind Regards, Lee Field

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Click here to report this message as spam:

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From: Bo Field <yurrandaali\_cs@hotmail.com>

**Sent:** Tuesday, 21 July 2020 11:41 AM

**To:** Zac Thomas

**Subject:** Registration of Interest ACHA - 1947 Sydney Business Park Stage 3, Marsden Park

NSW

Follow Up Flag: Follow up Flag Status: Flagged

Hi Zac,

Yurrandaali Pty Ltd would like to register our interest in the following project: 1947 Sydney Business Park Stage 3, Marsden Park NSW

Kind Regards, Bo Field

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**From:** WIDESCOPE . <widescope.group@live.com>

**Sent:** Sunday, 26 July 2020 10:48 AM

**To:** Zac Thomas

**Subject:** Registration, Stage 3 Facilities Sydney Business Park Marsden Park, NSW

Follow Up Flag: Follow up Flag Status: Flagged

Hi Zac,

Please register my interest in the Aboriginal Cultural heritage assessment for the above project I am a recognised indigenous cultural knowledge holder. I hold cultural knowledge relevant in determining the significance of Aboriginal objects and places in the vicinity of the study area. I hold a cultural connection to the area of the project and surrounding areas

My preferred Method of contact is Via Email:widescope.group@live.com Or Steven Hickey (RAP) Mob 0425230693 Donna Hickey Administration 0425232056

### My level of involvement:

I would like to attend Community Consultation meetings; I do not require hard copies of reports.

I would like to be considered for any future field survey works. I am fit and skilled in all aspects of cultural surveying works.

Thank you for your consideration, I look forward to assisting the team with the Aboriginal Cultural Heritage section of the project.

<u>Privacy</u>: Please do not release my personal details including my Email address to other RAP I give consent to Heritage NSW and Local Aboriginal Land Council thank you.

Regards Steven Hickey

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From: justinecoplin@optusnet.com.au
Sent: justinecoplin@optusnet.com.au
Monday, 27 July 2020 12:24 PM

**To:** Zac Thomas

Subject: reg of interest STAGE 3 FACILITIES SYDNEY BUSINESS PARK - MARSDEN PARK,

NSW

Attachments: reg of interest STAGE 3 FACILITIES SYDNEY BUSINESS PARK - MARSDEN PARK,

NSW.pdf

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DARUG CUSTODIAN ABORIGINAL CORPORATION

PO BOX 81 WINDSOR 2756

PHONE: 0245775181 FAX: 0245775098 MOBILE: 0414962766 Justine Coplin EMAIL: justinecoplin@optusnet.com.au

Attention KNC Date: 27072020

Subject: STAGE 3 FACILITIES SYDNEY BUSINESS PARK - MARSDEN PARK, NSW

Dear

Our group is a non- profit organisation that has been active for over forty years in Western Sydney, we are a Darug community group with over three hundred members. The main aim in our constitution is the care of Darug sites, places, wildlife and to promote our culture and provide education on the Darug history.

The Marsden Park area is an area that our group has a vast knowledge of, we have worked and lived in for many years, this area is significant to the Darug people due to the connection of sites and the continued occupation. Our group has been involved in all previous assessments and works in this area as a traditional owner Darug group for the past 40 plus years.

Therefore we would like to register our interest for full consultation and involvement in the above project area.

Please contact us with all further enquiries on the above contacts.

Regards

# Justine Coplin

We acknowledge and pay respect to the Darug people, the traditional Aboriginal custodians of this land.

From: Carolyn .H <cazadirect@live.com>
Sent: Tuesday, 28 July 2020 8:53 AM

**To:** Zac Thomas

**Subject:** Re: Notification of project proposal and registration of interest - 1947 Sydney

Business Park Stage 3, Marsden Park - A1



Contact: Carolyn Hickey

M: 0411650057

E: Cazadirect@live.com

A: 10 Marie Pitt Place, Glenmore Park, NSW 2745

ACN: 639 868 876

Hi,

I would like to register for consultation Meetings and field work, I hold cultural knowledge relevant to determining the cultural significance of any Aboriginal objects and values that exist within the project area.

Kind Regards, Carolyn Hickey

From: Zac Thomas <zac.thomas@knconsult.com.au>

**Sent:** Friday, 17 July 2020 2:34 PM **To:** Caza X < cazadirect@live.com>

Subject: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden

Park - A1

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

Heritage Administration Assistant **Kelleher Nightingale Consulting Pty Ltd** Level 10, 25 Bligh St Sydney NSW 2000 p 02 9232 5373

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Kind regards,

From: Sent: To: Subject:	Lilly Carroll <didgengunawalclan@yahoo.com.au> Friday, 17 July 2020 2:52 PM Zac Thomas Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - DNC</didgengunawalclan@yahoo.com.au>	
Hi Zac		
DNC would like to RE: registration of interest - 1947 Sy	ydney Business Park Stage 3, Marsden Park -	
Kind regards DNC Paul Boyd & Lilly Carroll 0426823944		
Sent from myMail for iOS		
Friday, 17 July 2020, 2:46 pm +	+1000 from Zac Thomas < <u>zac.thomas@knconsult.com.au</u> >:	
Dear potential stakeholder,		
You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as ±Stage 3øof Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.		
Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.		
Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.		
Please do not hesitate to call our office if you have any further queries.		

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

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From: Aaron Slater <warragil\_c.s@hotmail.com>

**Sent:** Tuesday, 28 July 2020 11:54 AM

To: Zac Thomas

**Subject:** Re: Notification of project proposal and registration of interest - 1947 Sydney

Business Park Stage 3, Marsden Park - WCS

Follow Up Flag: Follow up Flag Status: Flagged

Hi Zac

Warragil cultural services would like to register interest in the above project if you need anything further please do not hesitate to contact me cheers.

Kind regards Aaron slater 0413655765

#### Sent from Outlook

**From:** Zac Thomas < <u>zac.thomas@knconsult.com.au</u>>

Sent: Friday, 17 July 2020 2:23 PM

To: Aaron Slater <warragil c.s@hotmail.com>

Subject: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden

Park - WCS

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

**Zac Thomas** 

Heritage Administration Assistant Kelleher Nightingale Consulting Pty Ltd Level 10, 25 Bligh St Message protected by MailGuard: e-mail anti-virus, anti-spam and content filtering.  $\underline{http://www.mailguard.com.au/mg}$ 

From: Sent: To:	Butucarbin Heritage <butuheritage@gmail.com> Tuesday, 28 July 2020 9:53 PM Zac Thomas</butuheritage@gmail.com>
Subject:	Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - BAC
Follow Up Flag: Flag Status:	Follow up Flagged
Dear Zac, On behalf of Butucarbin, I wou Marsden Park.	ld like to register interest in the consultation in relation to the project at
Kind regards,	
On Fri, Jul 17, 2020 at 2:39 PM	I Zac Thomas < <a href="mailto:zac.thomas@knconsult.com.au">zac.thomas@knconsult.com.au</a> > wrote:
Dear potential stakeholder,	
heritage assessment of propose	been identified as a possible Aboriginal stakeholder for an upcoming ed warehouse and distribution facilities in the area known as \$\frac{1}{2}\$ Stage 3\psi of the Marsden Park Industrial Precinct in Western Sydney, NSW.
consultation process. If you wi	d invitation to register your interest in the Aboriginal community ish to register, please do so using the contact details for Kelleher Nightingale ter by 31 July 2020. You may also register via reply email to me.
names of each Aboriginal pers copy of that record to the relev	rdance with Heritage NSW requirements, we are required to record the son/organisation who has registered an interest in this project and provide a vant Heritage NSW office and Local Aboriginal Land Council. If you are e let us know if you do not want your details forwarded to these
Please do not hesitate to call o	ur office if you have any further queries.
Kind regards,	
Zac Thomas	

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

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Lowanna Gibson Project Manager for Butucarbin Cultural Heritage Assessments B.A Archaeology/Anthropology USYD Juris Doctor Candidate UTS

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From: Scott Franks <scott@tocomwall.com.au>

Sent:Friday, 31 July 2020 10:13 AMTo:Zac Thomas; Danny FranksSubject:Stage 3 sydney business park

Dear Zac,

Can you please register tocomwall interest for the stage 3 sydney business park- marsdan park.

Regards Scott Franks Registered native title claimant PCWP Tocomwall PTY Limited Scott@tocomwall.com.au

Ph: 0404171544

Breach of Confidentiality

This email and any files transmitted with it are confidential and intended solely for the use of the individual to whom they are addressed. If you have received this email in error please notify the sender. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this email. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited. Although the company has taken reasonable precautions to ensure no viruses are present in this email, the company cannot accept responsibility for any loss or damage arising from the use of this email or attachments.

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From: Amanda DeZwart <amandahickey@live.com.au>

Sent: Monday, 3 August 2020 2:38 PM

**To:** Zac Thomas

**Subject:** Re: Notification of project proposal and registration of interest - 1947 Sydney

Business Park Stage 3, Marsden Park - AHCS

Follow Up Flag: Follow up Flag Status: Flagged



Contact: Amanda DeZwart Mobile: 0434 480 558

Address: 57 Gough St, Emu Plains, NSW 2750

ABN: 498 242 132 40

Ηi,

I would like to register for consultation Meetings and future field work, I hold cultural knowledge to determine cultural significance of Aboriginal Objects and areas that exist in the project area.

Kind regards, Amanda DeZwart

From: Zac Thomas <zac.thomas@knconsult.com.au>

**Sent:** Friday, 17 July 2020 2:38 PM

To: amandahickey@live.com.au <amandahickey@live.com.au>

Subject: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden

Park - AHCS

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

#### **Zac Thomas**

Heritage Administration Assistant **Kelleher Nightingale Consulting Pty Ltd** Level 10, 25 Bligh St Sydney NSW 2000 p 02 9232 5373

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From: Ryan Johnson <murrabidgeemullangari@yahoo.com.au>

**Sent:** Friday, 17 July 2020 2:55 PM

**To:** Zac Thomas

**Subject:** Re: Notification of project proposal and registration of interest - 1947 Sydney

Business Park Stage 3, Marsden Park - MBMAC

Hi Zac Please register our organisation for the above Project. Kind regards Ryan johnson 0475565517

On 17 Jul 2020, at 2:48 pm, Zac Thomas < <a href="mailto:zac.thomas@knconsult.com.au">zac.thomas@knconsult.com.au</a> wrote:

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

#### **Zac Thomas**

Heritage Administration Assistant **Kelleher Nightingale Consulting Pty Ltd** Level 10, 25 Bligh St Sydney NSW 2000 p 02 9232 5373

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From: Vicky slater <wurrumay@hotmail.com>

**Sent:** Friday, 17 July 2020 3:03 PM

To: Zac Thomas

**Subject:** Re: Notification of project proposal and registration of interest - 1947 Sydney

Business Park Stage 3, Marsden Park - Wurrumay

Good Evening Zac.

Wurrumay Pty Ltd would like to register an interest for the above project.

We hold Knowledge & Connection to Country with Ancestral ties with Black Kitty- Native Institute at Black town c 1800 within the project Area's.

Experienced Indigenous Site Officer's & Current Insurances

Kind Regards

Vicky Slater Manager

Wurrumay Pty Ltd 89 Pyramid Street Emu Plains NSW.2750

M:0421077521

On 17 Jul. 2020 2:54 pm, Zac Thomas < <u>zac.thomas@knconsult.com.au</u>> wrote:

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as ±Stage 3øof Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
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Sydney NSW 2000
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Report this message as spam

Please do not hesitate to call our office if you have any further queries.

Kind regards,

Zac Thomas

**From:** jesse johnson <muragadi@yahoo.com.au>

**Sent:** Friday, 17 July 2020 4:04 PM

**To:** Zac Thomas

**Subject:** Re: Notification of project proposal and registration of interest - 1947 Sydney

Business Park Stage 3, Marsden Park - MHIC

Hi Zac Please register our corporation for the above project Kind regards Jesse Johnson

On 17 Jul 2020, at 2:49 pm, Zac Thomas < <a href="mailto:zac.thomas@knconsult.com.au">zac.thomas@knconsult.com.au</a> wrote:

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

#### **Zac Thomas**

Heritage Administration Assistant **Kelleher Nightingale Consulting Pty Ltd** Level 10, 25 Bligh St Sydney NSW 2000 p 02 9232 5373

<413\_MHIC\_170720.pdf>

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From: Shaun Carroll <Merrigarn@hotmail.com>

**Sent:** Friday, 17 July 2020 4:17 PM

**To:** Zac Thomas

**Subject:** Notification of project proposal and registration of interest - 1947 Sydney

Business Park Stage 3, Marsden Park -

Follow Up Flag: Follow up Flag Status: Completed

Hi Zac Please registe

Please register Merrigarn for the above project.

Kind regards Shaun Carroll 0499187238

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ABN 26 120 187 671 ACN 120 187 671

### **RECORD OF DISCUSSION**

Date:	17/7/20	Ref: Sydney Business Park Stage 3	
Time:	4:45pm	Project No.: 1947	
Contact:	Phil Boney	KNC Personnel: Zac	
Organisation:	Wailwan Aboriginal Group		
Number:	0492213073		
Re:	Registration of Interest		

#### **Discussion:**

Phil called to register for 1947 Sydney Business Park Stage 3.

Heritage Administration Assistant

From: Sent: To:	Arika Jalomaki <yulayculturalservices@gmail.com> Friday, 17 July 2020 5:03 PM Zac Thomas</yulayculturalservices@gmail.com>	
Subject:	Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - YCS	
Dear Zac,		
Yulay Cultural serviceøs would	like to express our interest in the above project.	
Kind regards Arika Jalomaki 0411 048 794		
On Fri, 17 Jul 2020 at 2:55 pm,	Zac Thomas < <u>zac.thomas@knconsult.com.au</u> > wrote:	
Dear potential stakeholder,		
heritage assessment of propose	been identified as a possible Aboriginal stakeholder for an upcoming and warehouse and distribution facilities in the area known as -Stage 3øof the Marsden Park Industrial Precinct in Western Sydney, NSW.	
Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.		
Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.		
Please do not hesitate to call our office if you have any further queries.		
Kind regards,		
Zac Thomas		

# Kelleher Nightingale Consulting Pty Ltd Level 10, <u>25 Bligh St</u> Sydney NSW 2000 p 02 9232 5373

--

Arika Jalomaki

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4 August 2020

CEO

Deerubbin Local Aboriginal Land Council PO Box 40 PENRITH BC NSW 2751

Via email: staff@deerubbin.org.au; srandall@deerubbin.org.au

Dear Sir/Madam,

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
ABORIGINAL STAKEHOLDER CONSULTATION: RECORD OF REGISTRATION OF INTEREST

Thank you for your involvement with this project to date. We look forward to continuing to consult with you on the project.

Further to prior communications, this letter is to advise that the notification and advertisement process for the above project has now been completed.

The closing date for registration of interest was 31 July 2020.

In accordance with item 4.1.6 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW April 2010) a record of the names of each Aboriginal person who registered an interest in the project has been made, unless the registered Aboriginal party specified they do not want their details released in accordance with item 4.1.5. Two stakeholders have chosen to withhold their details.

Please find attached a copy of that record, as well as copies of the notifications from item 4.1.3.

As required, copies of the record and notifications have also been provided to Heritage NSW (as part of the Department of Premier and Cabinet).

If you have any questions or require further information, please don't hesitate to contact the office on 9232 5373.

Yours sincerely,

Zac Thomas

Heritage Administration Assistant

Attachments: (1) Record of Registration List

(2) Advertisement(3) Notification Letter



4 August 2020

Senior Team Leader, Aboriginal Cultural Heritage Regulation Heritage NSW Department of Premier and Cabinet Locked Bag 5020 Parramatta NSW 2124 Via email: heritagemailbox@environment.nsw.gov.au

Dear Sir/Madam,

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
ABORIGINAL STAKEHOLDER CONSULTATION: RECORD OF REGISTRATION OF INTEREST

Thank you for your letter regarding identifying Aboriginal stakeholders that may have an interest in the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. It is greatly appreciated.

Further to prior communication, this letter is to advise that the notification and advertisement process for the above project has now been completed.

The closing date for registration of interest was 31 July 2020.

In accordance with item 4.1.6 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW April 2010) a record of the names of each Aboriginal person who registered an interest in the project has been made, unless the registered Aboriginal party specified they do not want their details released in accordance with item 4.1.5. No stakeholders have chosen to withhold their details.

Please find attached a copy of that record, as well as copies of the notifications from item 4.1.3.

As required, copies of the record and notifications have also been provided to Deerubbin Local Aboriginal Land Council.

If you have any questions or require further information, please don't hesitate to contact the office on 9232 5373.

Yours sincerely,

**Zac Thomas** 

Heritage Administration Assistant

Attachments: (1) Record of Registration List

(2) Advertisement

(3) Notification Letter

## 1947: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW ABORIGINAL CULTURAL HERITAGE CONSULTATION Record of Registration of Interest

Step 4.1.6, Aboriginal cultural heritage consultation requirements for proponents 2010

There are 23 Registered Aboriginal Stakeholders listed for the project, as shown in the table below.

Registered Aboriginal Stakeholder	Name of Aboriginal Person and/or Contact person
Deerubbin Local Aboriginal Land Council	CEO
A1 Indigenous Services	Carolyn Hickey
Amanda DeZwart	Amanda DeZwart
Barraby Cultural Services	Lee Field
Butucarbin Aboriginal Corporation	Lowanna Gibson
Darug Custodian Aboriginal Corporation	Justine Coplin
Dhinawan Culture and Heritage Pty Ltd	Stephen Fields
Didge Ngunawal Clan	Paul Boyd & Lilly Carroll
Freeman & Marx Pty Ltd	Clive Freeman
Kamilaroi Yankuntjatjara Working Group	Phil Khan
Merrigarn	Shaun Carroll
Muragadi Heritage Indigenous Corporation	Jesse Johnson
Murra Bidgee Mullangari Aboriginal Corporation	Ryan Johnson
Registered Aboriginal Stakeholder	Details withheld
Registered Aboriginal Stakeholder	Details withheld
Tocomwall	Scott Franks
Waawaar Awaaa Aboriginal Corporation	Rodney Gunther
Wailwan Aboriginal Group	Phil Boney
Warragil Cultural Services	Aaron Slater
Widescope Indigenous Group	Steven Hickey
Wurrumay Pty Ltd	Vicky Slater
Yulay Cultural Services	Arika Jalomaki
Yurrandaali Pty Ltd	Bo Field



31 July 2020

Carolyn Hickey
A1 Indigenous Services
cazadirect@live.com

Dear Sir/Madam,

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW PROJECT INFORMATION AND PROPOSED ASSESSMENT METHODOLOGY

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. We are looking forward to consulting with you on the project. This letter is to provide registered stakeholders with information about:

- a) The proposed activity that may be the subject of applications and approvals through a State Significant Development (SSD) under the *Environmental Planning and Assessment Act 1979*.
- b) The proposed cultural heritage assessment report (CHAR) process.

#### **Project Information**

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown City Council local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

#### **Consultation Process**

Aboriginal community consultation is an important part of the project and will be undertaken in accordance with the Department of Planning, Industry and Environment (DPIE) *Aboriginal cultural heritage consultation requirements for proponents 2010*.

According to DPIE, the consultation process includes getting the views of, and information from, Aboriginal people and reporting on these. DPIE specifically notes that consultation should not be confused with employment or with other field assessment processes involved in preparing a project proposal and an AHIP application.

Consultation as per the Aboriginal cultural heritage consultation requirements for proponents 2010 will continue throughout the assessment process. A consultation process with registered Aboriginal stakeholders and the preparation of a CHAR will assist Marsden Park Developments Pty Ltd in considering Aboriginal heritage in relation to the proposed activity.

In following the DPIE requirements, the consultation process includes:

- Notification of project proposal and advertisement (completed).
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Yours sincerely,

**Zac Thomas** 

Heritage Administration Assistant



3 August 2020

Amanda DeZwart amandahickey@live.com.au

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Heritage Administration Assistant



31 July 2020

Lowanna Gibson

Butucarbin Aboriginal Corporation
butuheritage@gmail.com

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31 July 2020

Lee Field
Barraby Cultural Services
barrabyculturalservices@gmail.com

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31 July 2020

Justine Coplin

Darug Custodian Aboriginal Corporation justinecoplin@optusnet.com.au

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Dhinawan Culture & Heritage Pty Ltd dhinawan.ch@gmail.com

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31 July 2020

CEO

Deerubbin Local Aboriginal Land Council srandall@deerubbin.org.au; staff@deerubbin.org.au

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**Zac Thomas** 



31 July 2020

Paul Boyd & Lilly Carroll
Didge Ngunawal Clan
didgengunawalclan@yahoo.com.au

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Clive Freeman
Freeman & Marx
clive.freeman@y7mail.com

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31 July 2020

Phil Khan

Kamilaroi Yankuntjatjara Working Group

philipkhan.acn@live.com.au

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murrabidgeemullangari@yahoo.com.au

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Shaun Carroll

Merrigarn

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Yours sincerely,

**Zac Thomas** 



31 July 2020

Rodney Gunther
Waawaar Awaaa Aboriginal Corporation
waawaar.awaa@gmail.com

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Phil Boney
Wailwan Aboriginal Group
waarlan12@outlook.com

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Aaron Slater
Warragil Cultural Services
warragil\_c.s@hotmail.com

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Steven Hickey
Widescope Indigenous Group
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Vicky Slater
Wurrumay Pty Ltd
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Heritage Administration Assistant



31 July 2020

Arika Jalomaki Yulay Cultural Services yulayculturalservices@gmail.com

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For the project, the assessment methodology will be structured in accordance with the DPIE *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW*.

In following the DPIE requirements, the proposed assessment methodology will include the following steps:

- Review of background information. This includes compiling data relating to the environmental, historic and archaeological context of the study area and completion of archaeological survey or test excavation where required. Any archaeological survey or test excavation activities will be undertaken in accordance with DPIE requirements.
- 2. Consultation with Aboriginal stakeholders, including seeking information from registered Aboriginal organisations and individuals about whether there are any Aboriginal objects or places of cultural value to stakeholders in the study area.
- 3. Identification and assessment of cultural significance. This includes identifying the range of cultural heritage values present in the study area and assessing their level of importance based on social/cultural, archaeological, historic and aesthetic values and significance. If you have information on the cultural heritage values and significance of the study area and would like this information included in the assessment, we would welcome your contribution.
- 4. Assessing harm. This step involves analysing the nature and extent of the proposed activity and assessing whether it has the potential to harm any of the identified Aboriginal objects or places present in the study area and what effect the proposed activity might have on their heritage value.
- 5. Develop measures to avoid harm, where possible. This may include impact avoidance, redesign of the proposal footprint or creating conservation outcomes for Aboriginal heritage items. If it is not possible to avoid harm, management strategies to minimise harm will be developed in consultation with stakeholders. The type of management strategies developed will depend on the identified significance of the Aboriginal heritage values.
- 6. Preparation of the CHAR. Using all the information gathered and assessed in the steps outlined above, a CHAR will be produced which documents this process of investigation, consultation and assessment. All registered Aboriginal stakeholders will be provided with a draft copy of this report for review and comment and all feedback and comments received will be considered in the final document. The CHAR will include a copy of submissions on the proposed methodology and draft report. Please note that archaeological reports, including the CHAR, may be shared with other Government agencies and local councils.

# **Contact Regarding CHAR Methodology**

We will keep you updated on any developments as the project progresses.

Please send any comments on the proposed cultural heritage assessment methodology outlined above, and any cultural information you may wish to share, to the following:

Zac Thomas
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
SYDNEY NSW 2000
Phone: 02 9232 5373

Phone: 02 9232 5373 Fax: 02 9223 0680

zac.thomas@knconsult.com.au

#### Please ensure your response is received by 28 August 2020.

If you have any questions on the information provided above or would like to discuss the project further, please feel free to contact us. We look forward to consulting with you throughout the project.

Yours sincerely,

**Zac Thomas** 

Heritage Administration Assistant



31 July 2020

Bo Field Yurrandaali Pty Ltd yurrandaali cs@hotmail.com

Dear Sir/Madam,

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW PROJECT INFORMATION AND PROPOSED ASSESSMENT METHODOLOGY

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. We are looking forward to consulting with you on the project. This letter is to provide registered stakeholders with information about:

- a) The proposed activity that may be the subject of applications and approvals through a State Significant Development (SSD) under the *Environmental Planning and Assessment Act 1979*.
- b) The proposed cultural heritage assessment report (CHAR) process.

#### **Project Information**

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown City Council local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

### **Consultation Process**

Aboriginal community consultation is an important part of the project and will be undertaken in accordance with the Department of Planning, Industry and Environment (DPIE) *Aboriginal cultural heritage consultation requirements for proponents 2010*.

According to DPIE, the consultation process includes getting the views of, and information from, Aboriginal people and reporting on these. DPIE specifically notes that consultation should not be confused with employment or with other field assessment processes involved in preparing a project proposal and an AHIP application.

Consultation as per the Aboriginal cultural heritage consultation requirements for proponents 2010 will continue throughout the assessment process. A consultation process with registered Aboriginal stakeholders and the preparation of a CHAR will assist Marsden Park Developments Pty Ltd in considering Aboriginal heritage in relation to the proposed activity.

In following the DPIE requirements, the consultation process includes:

- Notification of project proposal and advertisement (completed).
- Registration of interest of Aboriginal stakeholders and provision of project information (completed).
- Consultation on proposed CHAR methodology (28 day review period, in process).
- Opportunity to review and provide feedback regarding the archaeological and cultural assessment methodologies (28 day review period, in process).
- Comprehensive archaeological and cultural assessment of the Aboriginal heritage values of the study area, assessment of the potential impact of the proposed activities on Aboriginal objects or Aboriginal places and recommendations. Archaeological assessment may include test excavation.
- Consultation on the draft CHAR (28 day review period).
- Invitation for Aboriginal cultural knowledge holders and stakeholders to provide information on the cultural value of the area (28 day response period, in process).
- Consideration of all Aboriginal stakeholder comments.

#### **Proposed Cultural Heritage Assessment Report Methodology**

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Yours sincerely,

**Zac Thomas** 

Heritage Administration Assistant



31 August 2020

Carolyn Hickey
A1 Indigenous Services
cazadirect@live.com

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RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW Draft Aboriginal Cultural Heritage Assessment Report

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Yours sincerely,

Zac Thomas



31 August 2020

Amanda DeZwart amandahickey@live.com.au

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Zac Thomas



31 August 2020

Lowanna Gibson
Butucarbin Aboriginal Corporation
butuheritage@gmail.com

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Lee Field Barraby Cultural Services barrabyculturalservices@gmail.com

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31 August 2020

Justine Coplin
Darug Custodian Aboriginal Corporation
justinecoplin@optusnet.com.au

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31 August 2020

Stephen Fields
Dhinawan Culture & Heritage Pty Ltd
dhinawan.ch@gmail.com

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31 August 2020

CEO

Deerubbin Local Aboriginal Land Council srandall@deerubbin.org.au; staff@deerubbin.org.au

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31 August 2020

Paul Boyd & Lilly Carroll
Didge Ngunawal Clan
didgengunawalclan@yahoo.com.au

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31 August 2020

Clive Freeman Freeman & Marx clive.freeman@y7mail.com

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31 August 2020

Phil Khan Kamilaroi Yankuntjatjara Working Group philipkhan.acn@live.com.au

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31 August 2020

Ryan Johnson Murra Bidgee Mullangari Aboriginal Corporation murrabidgeemullangari@yahoo.com.au

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Shaun Carroll Merrigarn Merrigarn@hotmail.com

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Jesse Johnson Muragadi Heritage Indigenous Corporation muragadi@yahoo.com.au

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Scott Franks Tocomwall PO Box 76 Caringbah NSW 1495

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Rodney Gunther Waawaar Awaaa Aboriginal Corporation waawaar.awaa@gmail.com

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Phil Boney Wailwan Aboriginal Group waarlan12@outlook.com

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Zac Thomas



31 August 2020

Aaron Slater Warragil Cultural Services warragil c.s@hotmail.com

Dear Sir/Madam,

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW Draft Aboriginal Cultural Heritage Assessment Report

Thank you for your contributions and involvement in this project to date. Please find attached a draft cultural heritage assessment report (CHAR) for the proposed 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW, for your review.

As a registered Aboriginal stakeholder you are invited to review and provide comment on the cultural heritage assessment report. If you have information on the cultural heritage values and significance of the study area and would like this information included in the assessment, we would welcome your contribution.

The project is State Significant Development (SSD-10477) and subject to approval under Part 5.1 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). Department of Planning, Industry and Environment approval would be required prior to any harm to Aboriginal objects.

Please forward any information you would like to include in the cultural heritage assessment report or any comments by **28 September 2020** to:

Zac Thomas
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh Street, Sydney NSW 2000

Phone: 02 9232 5373

Email: zac.thomas@knconsult.com.au

If you have any questions or require further information, please don't hesitate to contact the office on 02 9232 5373.

We appreciate your involvement in the project to date and look forward to working with you again on this and future projects.

Yours sincerely,

Zac Thomas



31 August 2020

Steven Hickey
Widescope Indigenous Group
widescope.group@live.com

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Yours sincerely,

Zac Thomas



31 August 2020

Vicky Slater Wurrumay Pty Ltd wurrumay@hotmail.com

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Zac Thomas



31 August 2020

Arika Jalomaki Yulay Cultural Services yulayculturalservices@gmail.com

Dear Sir/Madam,

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW Draft Aboriginal Cultural Heritage Assessment Report

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Yours sincerely,

Zac Thomas



31 August 2020

Bo Field Yurrandaali Pty Ltd yurrandaali cs@hotmail.com

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Email: zac.thomas@knconsult.com.au

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We appreciate your involvement in the project to date and look forward to working with you again on this and future projects.

Yours sincerely,

Zac Thomas



# **APPENDIX B**

# **Zac Thomas**

From: justinecoplin@optusnet.com.au

Sent: Monday, 18 January 2021 2:59 PM

**To:** Zac Thomas

Subject:Marsden Park Industrial Precinct in Western Sydney, NSWAttachments:Marsden Park Industrial Precinct in Western Sydney, NSW.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Message protected by MailGuard: e-mail anti-virus, anti-spam and content filtering. <a href="http://www.mailguard.com.au/mg">http://www.mailguard.com.au/mg</a>

Report this message as spam



DARUG CUSTODIAN ABORIGINAL CORPORATION

PO BOX 81 WINDSOR 2756

PHONE: 0245775181 FAX: 0245775098 MOBILE: 0415770163 Leanne Watson 0414962766 Justine Coplin

EMAIL: mulgokiwi@bigpond.com / justinecoplin@optusnet.com.au

Attention:	Date:
Subject	

#### Dear

Our group is a non- profit organisation that has been active for over forty years in Western Sydney, we are a Darug community group with over three hundred members. The main aim in our constitution is the care of Darug sites, places, wildlife and to promote our culture and provide education on the Darug history.

Our group promotes Darug Culture and works on numerous projects that are culturally based as a proud and diverse group. It has been discussed by our group and with many consultants and researches that our history is generic and is usually from an early colonists perspective or solely based on archaeology and sites. These histories are adequate but they lack the people's stories and parts of important events and connections of the Darug people and also other Aboriginal people that now call this area home and have done so for numerous generations.

This area is significant to the Darug people due to the evidence of continued occupation, within close proximity to this project site there is a complex of significant sites.

Landscapes and landforms are significant to us for the information that they hold and the connection to Darug people. Aboriginal people (Darug) had a complex lifestyle that was

based on respect and belonging to the land, all aspects of life and survival did not impact on the land but helped to care for and conserve land and the sustenance that the land provided. As Darug people moved through the land there were no impacts left, although there was evidence of movement and lifestyle, the people moved through areas with knowledge of their areas

and followed signs that were left in the landscape. Darug people knew which areas were not to be entered and respected the areas that were sacred.

Knowledge of culture, lifestyle and lore have been part of Darug people's lives for thousands of years, this was passed down to the next generations and this started with birth and continued for a lifetime. Darug people spent a lifetime learning and as people grew older they passed through stages of knowledge, elders became elders with the learning of stages of knowledge not by their age, being an elder is part of the kinship system this was a very complicated system based on respect.

Darug sites are all connected, our country has a complex of sites that hold our heritage and past history, evidence of the Darug lifestyle and occupation are all across our country, due to the rapid development of Sydney many of our sites have been destroyed, our sites are thousands of years old and within the short period of time that Australia has been developed pre contact our sites have disappeared.

The Aboriginal cultural heritage consultation requirements for proponents Section 4.1.8 refers to "Aboriginal organisations representing Aboriginal people who hold cultural knowledge". Recent consultation meetings have revealed that many of these Aboriginal organisations and individuals do not hold cultural knowledge of the Western Sydney area. The increasing involvement of such parties in cultural heritage management means that genuine local Aboriginal organisations are unable to properly care for our cultural heritage.

Many Aboriginal organisations listed in the OEH response letter do not contribute to the Aboriginal community of Western Sydney. Individuals listed in the OEH response letter do not represent the community and while they may be consulted with, should not be employed for their own personal financial benefit.

Our organisation is committed to providing benefits back to our local Aboriginal community through such measures as funding the local Aboriginal juniors' touch football team, painting classes for the local children and donating money to various charities. Employment in cultural heritage activities is source of income that organisations such as ours can use to contribute to beneficial activities and support within the community.

Darug custodian Aboriginal Corporation's site officers have knowledge of Darug land, Darug Culture, Oral histories, landforms, sites, Darug history, wildlife, flora and legislative

requirements. We have worked with consultants and developers for many years in Western Sydney (Darug Land) for conservation, site works, developments and interpretation/education strategie

Darug Custodian Aboriginal Corporation have received and reviewed the report for Marsden Park Industrial Precinct in Western Sydney, NSW

Darug Custodians do not support the survey recommendation as there was no traditional owners invited to the survey.

It is disappointing that after all the years we have been working with KNC that KNC chooses to go along the lines of only having Land Council out on surveys and exclude the traditional owners to go out on country and have their say.

Please contact us with all further enquiries on the above contacts.

Regards

Justine Coplin

# **Zac Thomas**

From: Sent: To:	Stephen Fields <dhinawan.ch@gmail.com> Wednesday, 6 January 2021 9:29 AM Zac Thomas</dhinawan.ch@gmail.com>
Subject:	Re: Aboriginal Cultural Heritage Management Plan - 1947 Sydney Business Park Stage 3, Marsden Park - DCH
Hi Zac,	
Hope you and your family had	safe and happy holidays.
We have just finished reviewing Marsden Park Industrial Precin	g the ACHP for the proposed 'Stage 3' of Sydney Business Park, within the act in Western Sydney, NSW.
We support the measures outlined in proposed development area.	the ACHP for the overall management of Aboriginal cultural heritage in and around the
Regards,	
Stephen Fields Dhinawan Culture and Heritage 0411232285	e Pty Ltd
On Wed, 23 Dec 2020 at 11:16, Za	ac Thomas < <u>zac.thomas@knconsult.com.au</u> > wrote:
Dear registered Aboriginal stake	holder,
	er and a copy of the draft Aboriginal cultural heritage management plan (ACHMP) Iney Business Park, within the Marsden Park Industrial Precinct in Western Sydney,
As a registered Aboriginal stakeholder for this project you are invited to review and provide comment on the attached ACHMP. The ACHMP is designed to provide guidance on the management of Aboriginal cultural heritage during development of Stage 3 Sydney Business Park.	
Please forward any comments to receiving your comments.	o myself or the office by <b>19 January 2021</b> . Thank you and we look forward to
Kind regards,	
Zac Thomas	



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## **Zac Thomas**

Sent: To: Subject:	Darleen Johnson <murrabidgeemullangari@yahoo.com.au> Thursday, 14 January 2021 11:27 AM Zac Thomas Re: Aboriginal Cultural Heritage Management Plan - 1947 Sydney Business Park Stage 3, Marsden Park - MBMAC</murrabidgeemullangari@yahoo.com.au>
Hi Zac, I have read the project information Kind regards Ryan Johnson 0475565517	and ACHMP for the above project, I endorse the recommendations made.  20, 11:20:15 am AEDT, Zac Thomas <zac.thomas@knconsult.com.au> wrote:</zac.thomas@knconsult.com.au>
Dear registered Aboriginal stakeho	
	and a copy of the draft Aboriginal cultural heritage management plan (ACHMP) for Business Park, within the Marsden Park Industrial Precinct in Western Sydney,
	older for this project you are invited to review and provide comment on the attached to provide guidance on the management of Aboriginal cultural heritage during usiness Park.
Please forward any comments to r receiving your comments.	myself or the office by <b>19 January 2021</b> . Thank you and we look forward to
Kind regards,	
Zac Thomas	
Heritage Administration Assistant	
Kelleher Nightingale Consulting Pty Ltd	
Level 10, 25 Bligh St	
Sydney NSW 2000	
p 02 9232 5373	

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#### **Zac Thomas**

From: jesse johnson <muragadi@yahoo.com.au>
Sent: Thursday, 7 January 2021 10:36 AM

**To:** Zac Thomas

Subject: Re: Aboriginal Cultural Heritage Management Plan - 1947 Sydney Business Park

Stage 3, Marsden Park - MHIC

Hi Zac

I have read the project information for the above project, I agree with the recommendations made. Kind regards
Jesse Johnson

On 23 Dec 2020, at 10:21 am, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

Dear registered Aboriginal stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal cultural heritage management plan (ACHMP) for the proposed 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

As a registered Aboriginal stakeholder for this project you are invited to review and provide comment on the attached ACHMP. The ACHMP is designed to provide guidance on the management of Aboriginal cultural heritage during development of Stage 3 Sydney Business Park.

Please forward any comments to myself or the office by **19 January 2021**. Thank you and we look forward to receiving your comments.

Kind regards,

#### **Zac Thomas**

Heritage Administration Assistant **Kelleher Nightingale Consulting Pty Ltd** Level 10, 25 Bligh St Sydney NSW 2000 p 02 9232 5373

<ACHMP\_Dec20\_Draft 1.pdf> <ACHMP\_MHIC\_231220.pdf>

Message protected by MailGuard: e-mail anti-virus, anti-spam and content filtering. <a href="http://www.mailguard.com.au/mg">http://www.mailguard.com.au/mg</a>

#### **Zac Thomas**

From: Scott Franks <scott@tocomwall.com.au>
Sent: Monday, 18 January 2021 4:37 PM

**To:** Zac Thomas; Danny Franks

**Subject:** stage 3 Facilities Business park- Masrdan park

Follow Up Flag: Follow up Flag Status: Flagged

Dear Zac,

Tocomwall is registering our interest in stage 3 Facilities Business park- Marsdan park NSW.

Regards Scott Franks

Native Title & Environmental Services Consultant

Tocomwall Pty Ltd PO Box 76 CARINGBAH NSW 1495 m: 0404 171544

e: <u>scott@tocomwall.com.au</u> <u>www.tocomwall.com.au</u>







Message protected by MailGuard: e-mail anti-virus, anti-spam and content filtering. <a href="http://www.mailguard.com.au/mg">http://www.mailguard.com.au/mg</a>

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

#### **APPENDIX N**

**Unexpected Finds Protocol** 



Douglas Partners Pty Ltd ABN 75 053 980 117 www.douglaspartners.com.au 18 Waler Crescent Smeaton Grange NSW 2567 Phone (02) 4647 0075

Marsden Park Developments Pty Ltd 920 Richmond Road MARSDEN PARK NSW 2765 Project 94569.08 5 February 2021 R.002.Rev0 RWG

Attention: Mr Michael Gray

Email: michael.gray@sydneybusinesspark.com.au

Unexpected Finds Protocol Proposed Industrial Development Stage 3, Sydney Business Park, Marsden Park, NSW

#### 1. Introduction

Douglas Partners Pty Ltd (DP) was commissioned by Marsden Park Developments Pty Ltd to prepare this Unexpected Finds Protocol (UFP) for Stage 3 of the Sydney Business Park, Marsden Park, NSW (the site). The purpose of the UFP is to provide a formal contingency checklist to be followed in the event of an unexpected find with respect to potential site contamination issues encountered during bulk earthworks.

DP understands that the site is to be developed for commercial/industrial land use under Stage Significant Development Application (SSD) – 10477.

#### 2. Unexpected Finds Protocol

If unexpected conditions with respect to contamination are encountered by the Contractor during the earthworks (such as fragments of suspected ACM, buried structures or unexpected contaminated soil or contaminants), the following general approach should be adopted:

- Upon discovery of an unexpected find (UF), works should cease in that area, the Contractor's Site Manager should be notified and the affected area closed off by the use of barrier tape;
- The location of the UF should be surveyed using dGPS with sub-metre accuracy;
- The Site Manager is to contact the Principal's Representative (PR), and the PR is to notify the Environmental Consultant;
- The Environmental Consultant will inspect the area and make an assessment of the significance of the find in terms of the potential impact to human health and the environment with reference to NSW EPA endorsed guidelines including NEPC (2013);
- Provision of advice from the Environmental Consultant to the PR regarding the recommended course of action:
- The Environmental Consultant will prepare a report detailing their assessment, including the extent and methods of remediation, as required;





- The assessment results together with a suitable management plan shall be provided by the PR to the Planning Secretary (as required in Clause B45 of SSD-10477) prior to the removal or treatment of such contamination;
- The agreed management/remedial strategy shall be implemented; and
- Details of the incident are to be recorded in the site record system.

In the event that the UF relates to the identification of asbestos, the following protocol will also apply:

- Upon discovery of suspected asbestos, the Site Manager should be notified and the affected area closed off by the use of barrier tape and warning signs. Warning signs shall be specific to Asbestos Hazards and shall comply with the Australian Standard 1319-1994 Safety Signs for the Occupational Environment;
- The location of the UF should be surveyed using dGPS with sub-metre accuracy;
- The Site Manager is to contact the Principal's Representative (PR), and the PR is to notify an appropriately qualified Environmental Consultant or Occupational Hygienist;
- The Environmental Consultant or Occupational Hygienist is to confirm the presence of asbestos
  and assess the extent of remediation works to be undertaken. An assessment report detailing this
  information will be compiled by the Environmental Consultant or Occupational Hygienist and
  provided to the PR;
- The Environmental Consultant or Occupational Hygienist should prepare a report detailing their assessment including the extent and methods of management / remediation, as required;
- The assessment results, together with a suitable management plan, shall be provided by the PR to the Planning Secretary (as required in Clause B45 of SSD-10477) prior to the removal or treatment of the asbestos;
- The agreed management/remedial strategy shall be implemented;
- In dry and windy conditions, any stockpiles or other areas of the site found to contain asbestos should be lightly wetted and covered with plastic sheeting whilst awaiting remediation / disposal;
- All work associated with asbestos in soil will be undertaken by an appropriately licenced contractor.
- Monitoring for airborne asbestos fibres is to be carried out during the soil excavation and remediation (if undertaken);
- Documentary evidence (weighbridge dockets) of correct disposal is to be provided to the contractors construction manager;
- At the completion of the excavation, a clearance inspection is to be carried out and written
  confirmation is to be provided by the Environmental Consultant or Occupational Hygienist that the
  area is safe to be accessed and worked. Validation should include appropriate soil sampling and
  testing; and
- Details of the UF and the remedy employed should be recorded in the site record system.

A form to be completed by the Contractor's Site Manager is attached and should be completed and sent to the PR and Environmental Consultant, or Occupational Hygienist, in the event of encountering a UF.



Please contact the undersigned if you have any questions on this matter.

Yours faithfully

**Douglas Partners Pty Ltd** 

Reviewed by

Alex Bayer Environmental Scientist Rod Gray Senior Associate

Attachments: Unexpected Find Form

#### **Limitations**

Douglas Partners Pty Ltd (DP) has prepared this report for Stage 3 of the Sydney Business Park, Marsden Park, NSW. The report is provided for the exclusive use of Marsden Park Developments Pty Ltd for this project only and for the purpose(s) described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

This report must be read in conjunction with all of the attached notes and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as a part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.



Unexpected Find Form		
Unexpected Find No		
Date		
ocation		
Actions		
Item	Action Taken	Action Taken By
	Affected area closed off by barrier tape	Contractor
Unexpected find encountered	Notify the Principal's Representative	Site Manager
onocumerou	Notify Environmental Consultant / Occupational Hygienist	Principal's Representative
nformation for the Env	rironmental Consultant to be completed b	by the Contractor's Site Manag
Description of the Unexpected Find		

Yes

Does the Unexpected Find potentially

involve asbestos

No

Sydney Business Park Stage 3 - Construction Environment Management Plan for Bulk Earthworks

#### **APPENDIX O**

**Bulk Earthworks Plans** 

Prepared by:





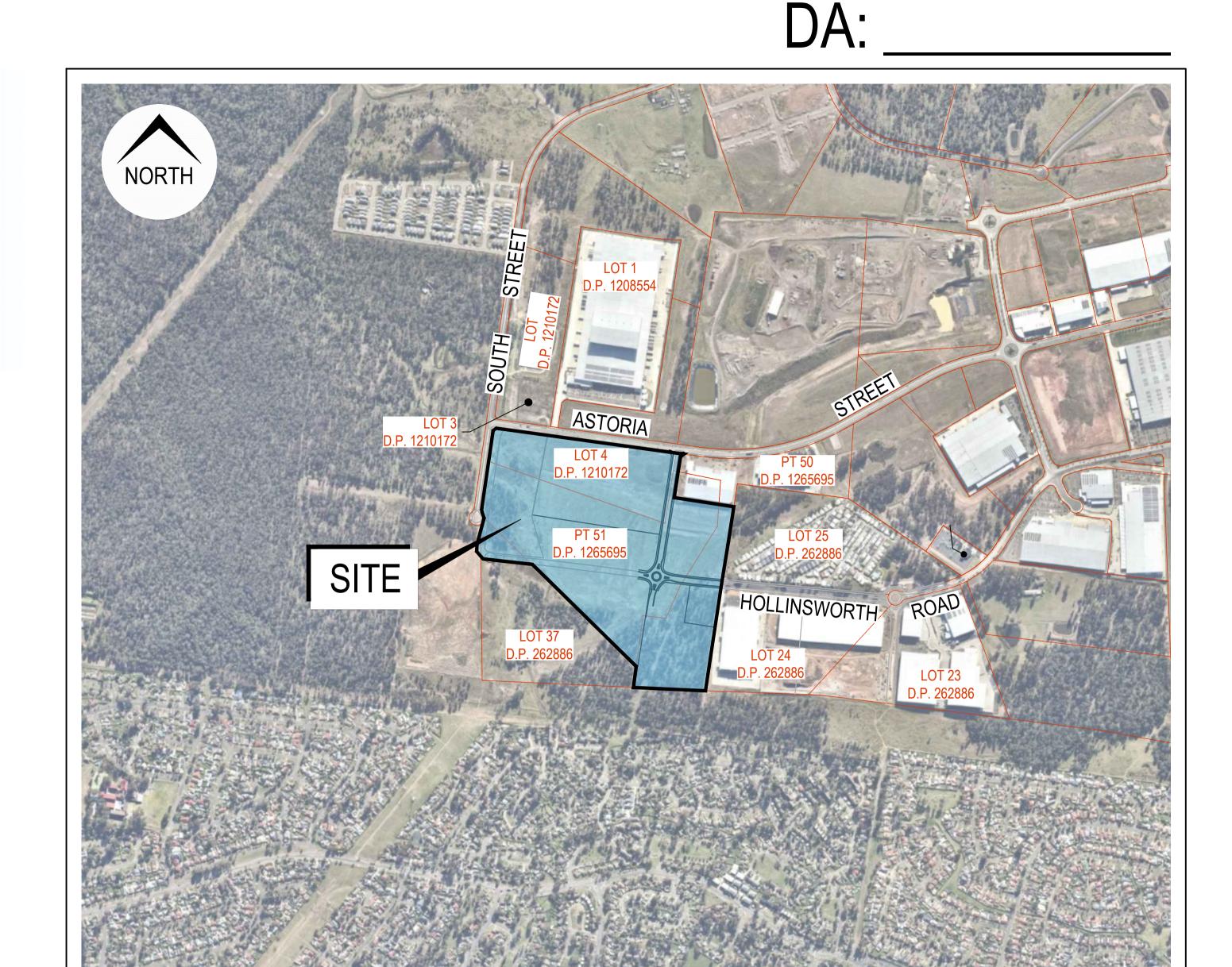
# Prepared for:



LGA:



	PLAN INDEX	
No.	PLAN	REV
PREL	IMINARIES	
000	COVER SHEET	С
001	GENERAL LAYOUT PLAN & LEGEND	В
002	GENERAL NOTES	В
003	SITE REGRADING PLAN	В
004	SITE REGRADING SECTIONS SHEET 01 OF 06	В
005	SITE REGRADING SECTIONS SHEET 02 OF 06	В
006	SITE REGRADING SECTIONS SHEET 03 OF 06	В
007	SITE REGRADING SECTIONS SHEET 04 OF 06	В
800	SITE REGRADING SECTIONS SHEET 05 OF 06	В
009	SITE REGRADING SECTIONS SHEET 06 OF 06	В
SEDI	MENT & EROSION CONTROL	•
100	SEDIMENT & EROSION CONTROL PLAN	С
101	SEDIMENT & EROSION CONTROL NOTES & DETAILS	А
ENGI	NEERING & ROADWORKS	
200	ENGINEERING PLAN SHEET 01 OF 05	В
201	ENGINEERING PLAN SHEET 02 OF 05	В
202	ENGINEERING PLAN SHEET 03 OF 05	В
203	ENGINEERING PLAN SHEET 04 OF 05	В
204	ENGINEERING PLAN SHEET 05 OF 05	В
210	SERVICES COORDINATION PLAN	В
220	TEMPORARY SWALE No.01 PLAN & SECTIONS	В
300	TYPICAL ROAD CROSS SECTIONS & SETOUT TABLES	А
301	ROAD LONG SECTIONS SHEET 01 OF 02	А
302	ROAD LONG SECTIONS SHEET 02 OF 02	А
ULTIN	MATE BASIN GRADING	
400	ULTIMATE BASIN LAYOUT PLAN	В
401	ULTIMATE BASIN SECTIONS SHEET 01 OF 02	В
402	ULTIMATE BASIN SECTIONS SHEET 02 OF 02	В

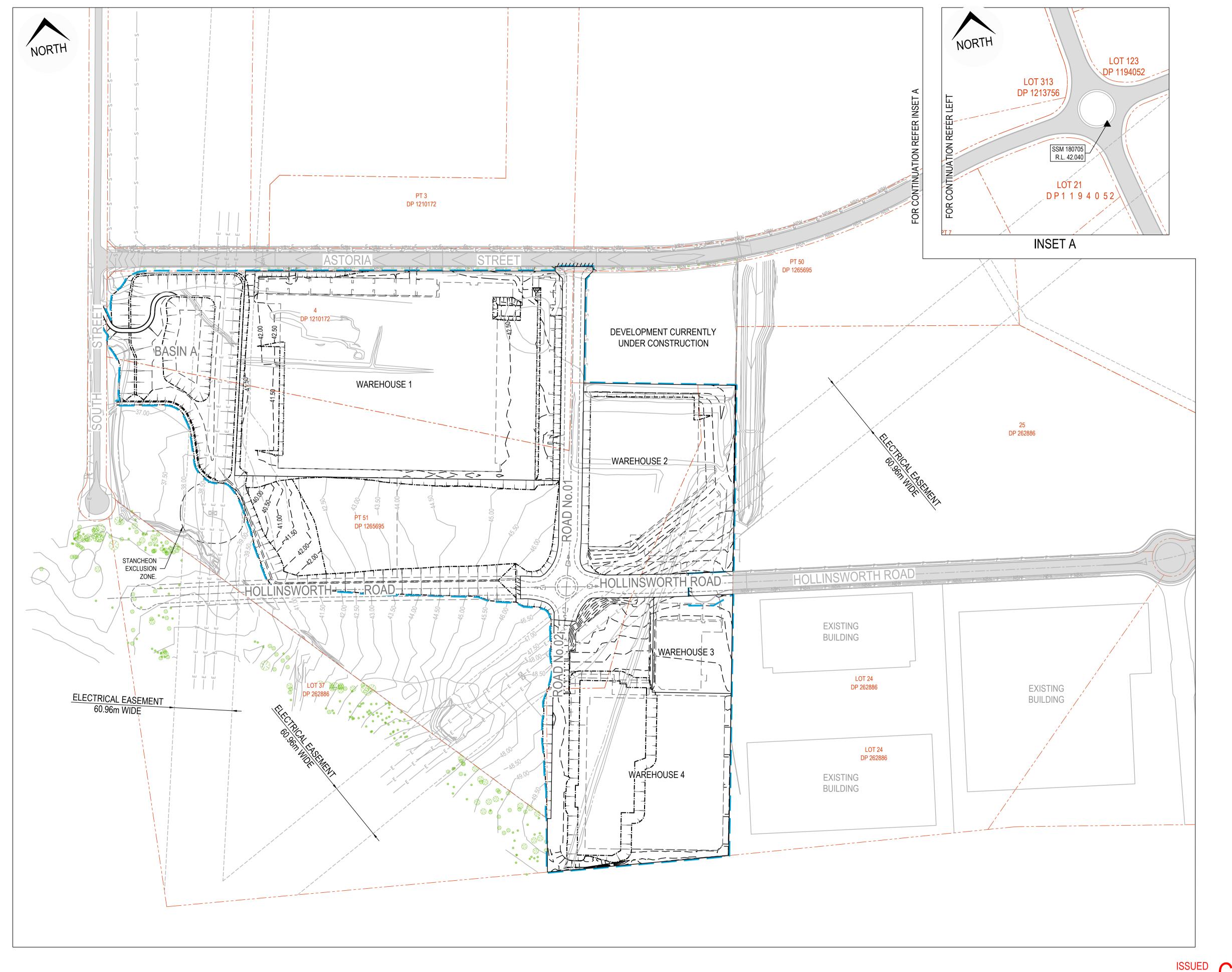


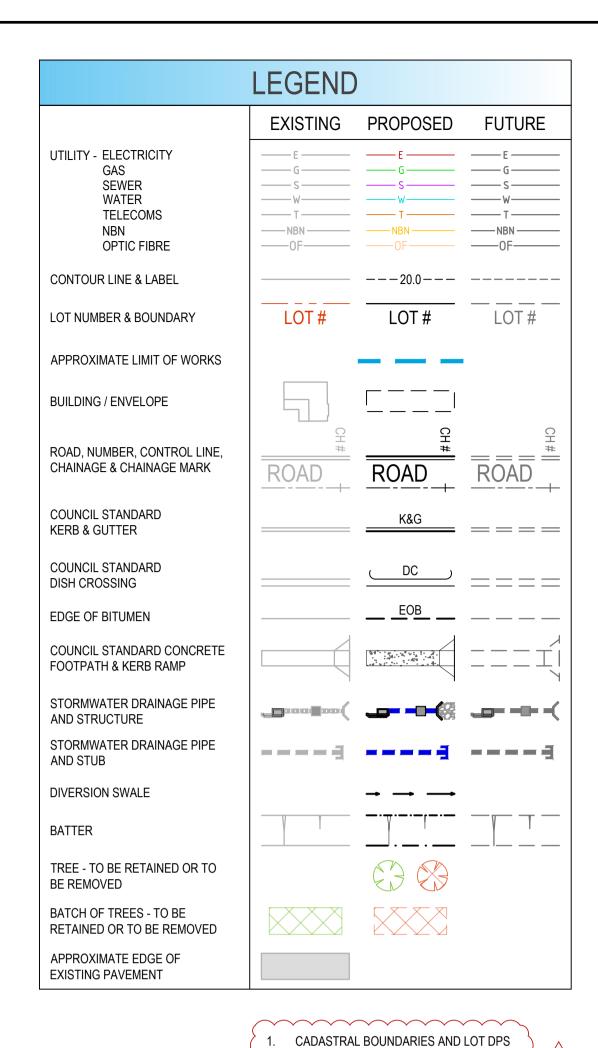
SITE / LOCATION (Image courtesy of Nearmap 23.06.2020)

LOT 4 D.P. 1210172, PT 50 AND PT 51 D.P. 1265695

# STAGE 3, SYDNEY BUSINESS PARK, MARSDEN PARK BULK EARTHWORKS DESIGN

ISSUED CONSTRUCTION CERTIFICATE





SURVEY PROVIDED BY FREEBURN SURVEYING: (DATED 29/05/2020)

COORDINATES: M.G.A GDA94

COORDINATES ORIGIN: SSM 180705

2. CONTOUR SURFACE UPDATED



DATUM: A.H.D.

LEVELS ORIGIN: R.L. 42.040

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.

# ISSUED CONSTRUCTION CERTIFICATE

Disclaimer and Copyright: GENERAL LAYOUT PLAN STAGE 3 Orion Consulting ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. 0 20 40 60 80 100 120 140 160 180 200 & LEGEND SYDNEY BUSINESS PARK, USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. SCALE 1:2000 (A1) SCALE 1:4000 (A3) THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE MARSDEN PARK sydney business park COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING B FM DH MP 02/02/2021 ISSUED FOR CONSTRUCTION CERTIFICATE ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED A BT DH MP 09/12/2020 ISSUED FOR CONSTRUCTION CERTIFICATE **BULK EARTHWORKS DESIGN** Project No. 20-0127 OR COPIED WHOLLY OR IN PART WITHOUT THE 001 Revision Description PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

#### GENERAL NOTES

- G1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S WORKS SPECIFICATION CIVIL (CURRENT EDITION) AND/OR AS DIRECTED BY THEIR REPRESENTATIVE
- G2. SURVEY MARKS: -
- a. SURVEY MARKS SHOWN THUS 📤 SHALL BE RETAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE SUPERINTENDENT MUST BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
- G3. THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST IF NECESSARY.
- G4. THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE OWNERS. TO BE PROVIDED PRIOR TO THE APPROVAL OF THE PLANS.
- G5. THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO ADJOINING PROPERTIES.
- G6. COUNCIL'S TREE PRESERVATION ORDER MUST BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT THE PRIOR APPROVAL OF COUNCIL'S ENGINEER.
- G7. TREES TO BE RETAINED ON SITE SHALL BE PROTECTED BY SUITABLE STURDY APPROVED PROTECTIVE FENCING
- G8. THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES, EXISTING INFRASTRUCTURE
- G9. FILLING IS TO BE FROM A NOMINATED SOURCE, OF SOUND CLEAN MATERIAL, FREE FROM LARGE ROCK, STUMPS, CONTAMINATED MATTER, INDUSTRIAL AND BUILDING WASTE, ORGANIC MATTER AND OTHER DEBRIS. PLACING OF FILLING ON THE PREPARED AREAS SHALL NOT COMMENCE UNTIL THE AUTHORITY TO DO SO HAS BEEN OBTAINED FROM THE COUNCIL.
- G10. SITE FILL AREAS: THE CONTRACTOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
- G11. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED BY THE SUPERINTENDENT.
- G12. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.

PRIOR TO COMMENCEMENT OF SITE WORKS.

AND DEBRIS ETC.

- G13. DIMENSIONS OF ANY DETAIL SHALL NOT BE SCALED DIMENSIONS, IF IN DOUBT, SHALL BE VERIFIED BY THE SUPERINTENDENT.
- G14. ALL CONSTRUCTION AND RESTORATION WORK ON COUNCIL'S ROAD AND FOOTPATH AREA ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED DRAWINGS AND COUNCIL'S STANDARD SPECIFICATIONS.

#### SURVEY SET OUT INFORMATION NOTES

S1. ALL SITE SET OUT AND CONTROL POINTS ARE TO BE CERTIFIED BY A REGISTERED SURVEYOR.

- S2. THE INFORMATION DETAILED ON THE CERTIFIED CONSTRUCTION CERTIFICATE PLANS TAKES PRECEDENCE OVER ALL ELECTRONIC INFORMATION PROVIDED. THE ORDER OF PRIORITY FOR USE OF ALL INFORMATION PROVIDED IS AS FOLLOWS:
- a. CERTIFIED CONSTRUCTION CERTIFICATE DRAWINGS
- b. 2D DRAFTING BASE (ELECTRONIC FILE)c. 3D DTM (ELECTRONIC FILE)
- S3. ANY DISCREPANCY BETWEEN ANY OF THE INFORMATION CONTAINED WITHIN THESE FILES IS TO BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT PRIOR TO CONSTRUCTION WHO WILL SEEK CLARIFICATION AND ISSUE INSTRUCTIONS ON THE APPROPRIATE COURSE OF ACTION.

## **GEOTECHNICAL NOTES**

GEOTECH IN ACCORDANCE WITH REPORT PREPARED BY DOUGLAS PARTNERS 94616.00, SEPT 2020, REV 0.

FOR PLANNING PURPOSES, THE FOLLOWING SITE PREPARATION MEASURES ARE RECOMMENDED FOR SUBGRADE PREPARATION AND ANY SITE PLATFORM FILLING PLACEMENT FOR THE DEVELOPMENT:

- GT1. REMOVE ANY DELETERIOUS, SOFT, WET OR HIGHLY COMPRESSIBLE MATERIAL OR MATERIAL RICH IN ORGANICS OR ROOT MATTER (SUCH AS TOPSOILS) AND UNCONTROLLED FILL MATERIAL. TOPSOIL MATERIALS SHOULD BE SEPARATELY STOCKPILED FOR USE IN LANDSCAPING OR REMOVED OFF SITE.
- GT2. ROLL THE EXPOSED SURFACE WITH AT LEAST SIX PASSES OF A MINIMUM 12 TONNE DEADWEIGHT SMOOTH DRUM ROLLER, WITH A FINAL TEST ROLL PASS ACCOMPANIED BY CAREFUL VISUAL INSPECTION TO ENSURE THAT ANY DELETERIOUS MATERIALS SUCH AS SOFT, WET OR HIGHLY COMPRESSIBLE SOIL AND ANY ORGANICS ARE IDENTIFIED AND REMOVED.
- PLACE APPROVED FILLING, WHERE REQUIRED, IN LAYERS NOT EXCEEDING 300mm LOOSE
  THICKNESS, WITH EACH LAYER COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% STANDARD
  WITHIN 2% OF OPTIMUM MOISTURE CONTENT (OMC). NEW FILLING SHOULD BE FREE OF OVERSIZED
  PARTICLES (>75mm) AND DELETERIOUS MATERIAL.
- MOISTURE CONDITIONING OF CLAY SOILS MAY BE REQUIRED IF SOILS ARE SATURATED OR DRY.
  MOISTURE CONDITIONING OF SATURATED SOILS WOULD INVOLVE DRYING IN 'SUNNY AND WINDY'
  WEATHER, BLENDING WITH OTHER DRIER MATERIALS OR LIME STABILISATION. WHERE THE SOIL IS
  DRY, IT IS EXPECTED THAT THIS WILL INVOLVE EITHER TYNING OR EXCAVATION WITH THE
  ADDITION OF WATER TO INCREASE THE MOISTURE CONTENT.
- GT5. PROMPLTY COVER ANY EXPOSED CLAY AT SUBGRADE LEVEL WITH A MINIMUM 150mm OF SELECT GRANULAR FILL (MINIMUM CBR 15%) TO REDUCE POTENTIAL WETTING, DRYING AND TRAFFICABILITY PROBLEMS.
- GT6. NEW FILLING REQUIRED TO ACHIEVE DESIGN LEVELS OFR SUPPORT OF ANY ON-GROUND SLABS AND/OR STRUCTURAL LOADS WILL NEED TO BE CARRIED OUT UNDER LEVEL 1 TESTING CONDITIONS AS DEFINED IN AS3798-2007 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. LEVEL 2 TESTING IS RECOMMENDED FOR FILLING MATERIALS BENEATH PAVEMENTS, RECREATIONAL AND LANDSCAPING AREAS.

#### SALINITY NOTES

SALINITY IN ACCORDANCE WITH REPORT PREPARED BY DOUGLAS PARTNERS, 964616.01, JULY 2020, REV 1.

THE CURRENT SALINITY INVESTIGATION INDICATES THAT MATERIALS WITHIN THE SITE ARE MODERATELY TO VERY SALINE. TESTING OF OTHER PARAMETERS ASSOCIATED WITH SALINITY INDICATES THAT THE MATERIALS ARE MILDLY TO MODERATELY AGGRESSIVE TO STEEL (BY THE RESISTIVITY AND CHLORIDE CRITERIA OF AS 2159) AND NON-AGGRESSIVE TO MILDLY AGGRESSIVE TO CONCRETE WITHIN THE SITE (BY THE PH AND SULPHATE CRITERIA OF AS 2159). IN ADDITION, SHALLOW SOILS WERE HIGHLY SODIC.

THE FOLLOWING MANAGEMENT STRATEGIES ARE CONFINED TO THE MANAGEMENT OF THOSE FACTORS WITH A POTENTIAL TO IMPACT ON THE DEVELOPMENT:

- A. MANAGEMENT SHOULD FOCUS ON CAPPING OF THE UPPER SURFACE OF THE SODIC SOILS, BOTH EXPOSED BY EXCAVATION AND PLACED AS FILLING, WITH A MORE PERMEABLE MATERIAL TO PREVENT PONDING, TO REDUCE CAPILLARY RISE, TO ACT AS A DRAINAGE LAYER AND TO REDUCE THE POTENTIAL FOR EROSION.
- B. WHEN POSSIBLE, PLACE EXCAVATED MATERIALS IN FILL AREAS WITH SIMILAR SALINITY CHARACTERISTICS (IE: PLACE MATERIAL ONTO IN-SITU SOILS WITH A SIMILAR OR HIGHER AGGRESSIVITY OR SALINITY CLASSIFICATION). WITH RESPECT TO IMPORTED FILL MATERIAL, TESTING SHOULD BE UNDERTAKEN PRIOR TO IMPORTATION, TO DETERMINE THE SALINITY CHARACTERISTICS OF THE MATERIAL, WHICH SHOULD BE NON-AGGRESSIVE AND NON-SALINE TO MODERATELY SALINE WHERE POSSIBLE BUT IN ANY CASE NOT MORE AGGRESSIVE OR MORE SALINE THAN THE MATERIAL ON WHICH IT IS TO BE PLACED.
- C. SODIC SOILS CAN ALSO BE MANAGED BY MAINTAINING VEGETATION WHERE POSSIBLE AND PLANTING NEW SALT TOLERANT SPECIES. THE ADDITION OF ORGANIC MATTER, GYPSUM AND LIME CAN ALSO BE CONSIDERED WHERE APPROPRIATE. AFTER GYPSUM ADDITION, REDUCTION OF SODICITY LEVELS MAY REQUIRE SOME TIME FOR SUFFICIENT INFILTRATION AND LEACHING OF SODIUM INTO THE SUBSOILS, HOWEVER CAPPING OF EXPOSED SODIC MATERIAL SHOULD REMAIN THE PRIMARY MANAGEMENT METHOD. TOPSOIL ADDED AT THE COMPLETION OF BULK EARTHWORKS IS, IN EFFECT, ALSO ADDING ORGANIC MATTER WHICH MAY HELP INFILTRATION AND LEACHING OF
- D. AVOID WATER COLLECTING IN LOW LYING AREAS, IN DEPRESSIONS, OR BEHIND FILL. THIS CAN LEAD TO WATER LOGGING OF THE SOILS, EVAPORATIVE CONCENTRATION OF SALTS, AND EVENTUAL BREAKDOWN IN SOIL STRUCTURE RESULTING IN ACCELERATED EROSION.
- E. ANY PAVEMENTS SHOULD BE DESIGNED TO BE WELL DRAINED OF SURFACE WATER. THERE SHOULD NOT BE EXCESSIVE CONCENTRATIONS OF RUNOFF OR PONDING THAT WOULD LEAD TO WATERLOGGING OF THE PAVEMENT OR ADDITIONAL RECHARGE TO THE GROUNDWATER THROUGH ANY MORE PERMEABLE ZONES IN THE UNDERLYING FILLING MATERIAL.
- F. SURFACE DRAINS SHOULD GENERALLY BE PROVIDED ALONG THE TOP OF BATTER SLOPES TO REDUCE THE POTENTIAL FOR CONCENTRATED FLOWS OF WATER DOWN SLOPES POSSIBLY CAUSING SCOUR.
- G. SALT TOLERANT GRASSES AND TREES SHOULD BE CONSIDERED FOR LANDSCAPING, TO REDUCE SOIL EROSION AS IN STRATEGY A ABOVE AND TO MAINTAIN THE EXISTING EVAPO TRANSPIRATION AND GROUNDWATER LEVELS. REFERENCE SHOULD BE MADE TO AN EXPERIENCED LANDSCAPE PLANNER OR AGRONOMIST.

THE ABOVE STRATEGIES SHOULD BE CONSIDERED IN CONJUNCTION WITH THE EROSION CONTROLS OUTLINED IN LANDCOM, SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER, VOLUME 1, 4TH EDITION, MARCH 2004.

THE FOLLOWING ADDITIONAL STRATEGIES ARE RECOMMENDED FOR COMPLETION OF SERVICE INSTALLATION AND FOR HOUSE / BUILDING CONSTRUCTION. THESE STRATEGIES SHOULD BE COMPLEMENTARY TO STANDARD GOOD BUILDING PRACTICES RECOMMENDED WITHIN THE BUILDING CODE OF AUSTRALIA, INCLUDING COVER TO REINFORCEMENT WITHIN CONCRETE AND CORRECT INSTALLATION OF A BRICK DAMP COURSE (WHERE USED), SO THAT IT CANNOT BE BRIDGED TO ALLOW MOISTURE TO MOVE INTO BRICK WORK AND UP THE WALL.

- H. WHERE MATERIALS ARE CLASSIFIED AS NON-AGGRESSIVE TO CONCRETE (REFER DRAWING 2), PILES SHOULD NEVERTHELESS HAVE A MINIMUM STRENGTH OF 32 MPA AND A MINIMUM COVER TO REINFORCEMENT OF 45 MM (AS PER AS 2159).
- WHERE MATERIALS ARE CLASSIFIED AS MILDLY AGGRESSIVE TO CONCRETE (REFER DRAWING 2), PILES SHOULD HAVE A MINIMUM STRENGTH OF 32 MPA AND A MINIMUM COVER TO REINFORCEMENT OF 60 MM (AS PER AS 2159) TO LIMIT THE CORROSIVE EFFECTS OF THE SURROUNDING MATERIALS (IN ACCORDANCE WITH AS 2159).
- J. WITH REGARD TO CONCRETE STRUCTURES, FOR MODERATELY SALINE SOILS (SOILS WITH SALINITIES OF 4 8 DS/M REFER DRAWING 4) THAT ARE CLASSIFIED AS NON AGGRESSIVE AND MILDLY AGGRESSIVE TO CONCRETE, SLABS AND FOUNDATIONS SHOULD HAVE A MINIMUM STRENGTH OF 25 MPA, A MINIMUM COVER TO REINFORCEMENT OF 45 MM FROM UNPROTECTED GROUND AND SHOULD BE ALLOWED TO CURE FOR A MINIMUM OF THREE DAYS (AS PER AS 3600) TO LIMIT THE CORROSIVE EFFECTS OF THE SURROUNDING SOILS.
- K. WITH REGARD TO CONCRETE STRUCTURES, FOR VERY SALINE SOILS (SOILS WITH SALINITIES OF 8 16 DS/M REFER DRAWING 4) THAT ARE CLASSIFIED AS NON-AGGRESSIVE AND MILDLY AGGRESSIVE TO CONCRETE, SLABS AND FOUNDATIONS SHOULD HAVE A MINIMUM STRENGTH OF 32 MPA, A MINIMUM COVER TO REINFORCEMENT OF 50 MM FROM UNPROTECTED GROUND AND SHOULD BE ALLOWED TO CURE FOR A MINIMUM OF SEVEN DAYS (AS PER AS 3600) TO LIMIT THE CORROSIVE EFFECTS OF THE SURROUNDING SOILS.
- WET CAST CONCRETE PIPES AND CURRENTLY MANUFACTURED SPUN CONCRETE PIPES ARE UNDERSTOOD TO HAVE ESTIMATED COMPRESSIVE STRENGTHS OF 50 MPA AND 60 70 MPA, RESPECTIVELY, IN EXCESS OF THE REQUIREMENTS FOR MASS CONCRETE IN J AND K ABOVE. REFERENCE TO THE MAXIMUM AND MINIMUM TEST RESULTS OF TABLE 1 (SECTION 7 OF THIS REPORT) AND TO TABLES E1 AND 3.1 OF AS 4058 2007 "PRECAST CONCRETE PIPES" INDICATES THAT THE SITE FALLS MARGINALLY OUTSIDE THE AS 4058 CLAY/STAGNANT (LOW SULPHATE) SOIL TYPE (CHLORIDES <=20,000 PPM AND SULPHATES <=1,000 PPM) AND (IN THE ABSENCE OF TIDAL WATER FLOW) FALLS WITHIN THE AS 4058 "OTHER" DURABILITY ENVIRONMENT. THE MINIMUM SITE PH OF 4.4 INDICATES A SLIGHTLY MORE ACIDIC ENVIRONMENT THAN THAT WITHIN THE CLAY/STAGNANT SOIL TYPE DEFINITION (MINIMUM PH 4.5) AND REFERENCE TO THE CONCRETE PIPE ASSOCIATION OF AUSTRALASIA ENGINEERING GUIDELINE ("DESIGNING DURABLE CONCRETE PIPELINES") INDICATES AN INCREASE OF COVER TO REINFORCEMENT (TO 20 MM) OR A PROTECTIVE (EG: EPOXY) COATING OR SLEEVE, OR BLENDED CONCRETE, SHOULD BE EMPLOYED TO MAINTAIN A DESIGN LIFE IN EXCESS OF 100 YEARS. IT IS RECOMMENDED THAT ANY CONCRETE PIPES INSTALLED WITHIN THE SITE SHOULD EMPLOY AS 4058-COMPLIANT STEEL REINFORCED PIPES OF GENERAL PURPOSE PORTLAND CEMENT, WITH MINIMUM COVER TO REINFORCEMENT OF 20 MM, OR WITH AN ALTERNATIVE DURABILITY PROVISION AS INDICATED ABOVE, OR SHOULD BE FIBRE REINFORCED.
- M. RESISTIVITY RESULTS INDICATE SOILS THAT ARE AGGRESSIVE TO STEEL (DRAWING 3, APPENDIX B). THIS DRAWING IDENTIFIES AREAS OF MILD AGGRESSIVITY (1000 2000 OHM-CM) AND MODERATE AGGRESSIVITY (<1000 OHM CM) TO STEEL OVER THE SITE. FOR THESE AREAS OF SOIL IDENTIFIED AS MILDLY AND MODERATELY AGGRESSIVE TO STEEL, THE FOLLOWING CORROSION ALLOWANCES (AS PER AS 2159 2009) SHOULD BE TAKEN INTO ACCOUNT BY THE DESIGNER:

O MILD: UNIFORM CORROSION ALLOWANCE 0.01 – 0.02 MM/YEAR; AND O MODERATE: UNIFORM CORROSION ALLOWANCE 0.02 – 0.04 MM/YEAR.

Scale:

IN INSTANCES WHERE A COATING IS APPLIED TO THE PILE, IF THE DESIGN LIFE OF THE PILE IS GREATER THAN THE DESIGN LIFE FOR THE COATING, CONSIDERATION MUST BE GIVEN TO CORROSION OF THE PILE IN ACCORDANCE WITH THE ABOVE LIST.

- N. IN ALL MASONRY BUILDINGS A BRICK DAMP COURSE SHOULD BE INSTALLED SO THAT IT CANNOT BE BRIDGED EITHER INTERNALLY OR EXTERNALLY. THIS WILL PREVENT MOISTURE MOVING INTO BRICKWORK AND UP THE WALL.
- O. THE USE OF A BEDDING LAYER OF SAND (100 MM THICK), OVERLAIN BY A MEMBRANE OF THICK PLASTIC (DAMP PROOF AS OPPOSED TO VAPOUR PROOF), IS RECOMMENDED UNDER CONCRETE SLABS TO ACT AS A MOISTURE BARRIER AND DRAINAGE LAYER AND TO RESTRICT CAPILLARY RISE UNDER THE SLAB. AS AN ALTERNATIVE METHOD FOR PROTECTION OF CONCRETE SLABS FOR NON-RESIDENTIAL CONSTRUCTION, HIGHER STRENGTH (32 MPA) CONCRETE MAY BE PLACED DIRECTLY ON A LAYER OF CRUSHED ROCK. SUCH ROCK SHOULD BE SOURCED LOCALLY FROM AN AREA CLASSIFIED AS NON SALINE OR SLIGHTLY SALINE OR SHOULD BE IMPORTED AFTER STOCKPILING, TESTING AND CLASSIFICATION AS NON-SALINE OR SLIGHTLY SALINE.

## **EARTHWORKS NOTES**

- E1. EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.
- E2. ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER
- E3. THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PRODUCED BY LANDCOM.
- E4. ALL ENM/VENM IS TO BE CERTIFIED.
- E5. CONSTRUCTION AND COMPACTION TO BE IN ACCORDANCE WITH COUNCIL'S WORKS SPECIFICATIONS.

E6. BOXING DEPTHS:
PUBLIC ROAD PAVEMENT: 850mm
WAREHOUSE FLOOR SLABS: 300mm
FOOTPATH/GARDEN AREAS: 150mm
CARPARK PAVEMENT AREAS: 340mm
TRUCK MANOEUVRING AREAS: 280mm



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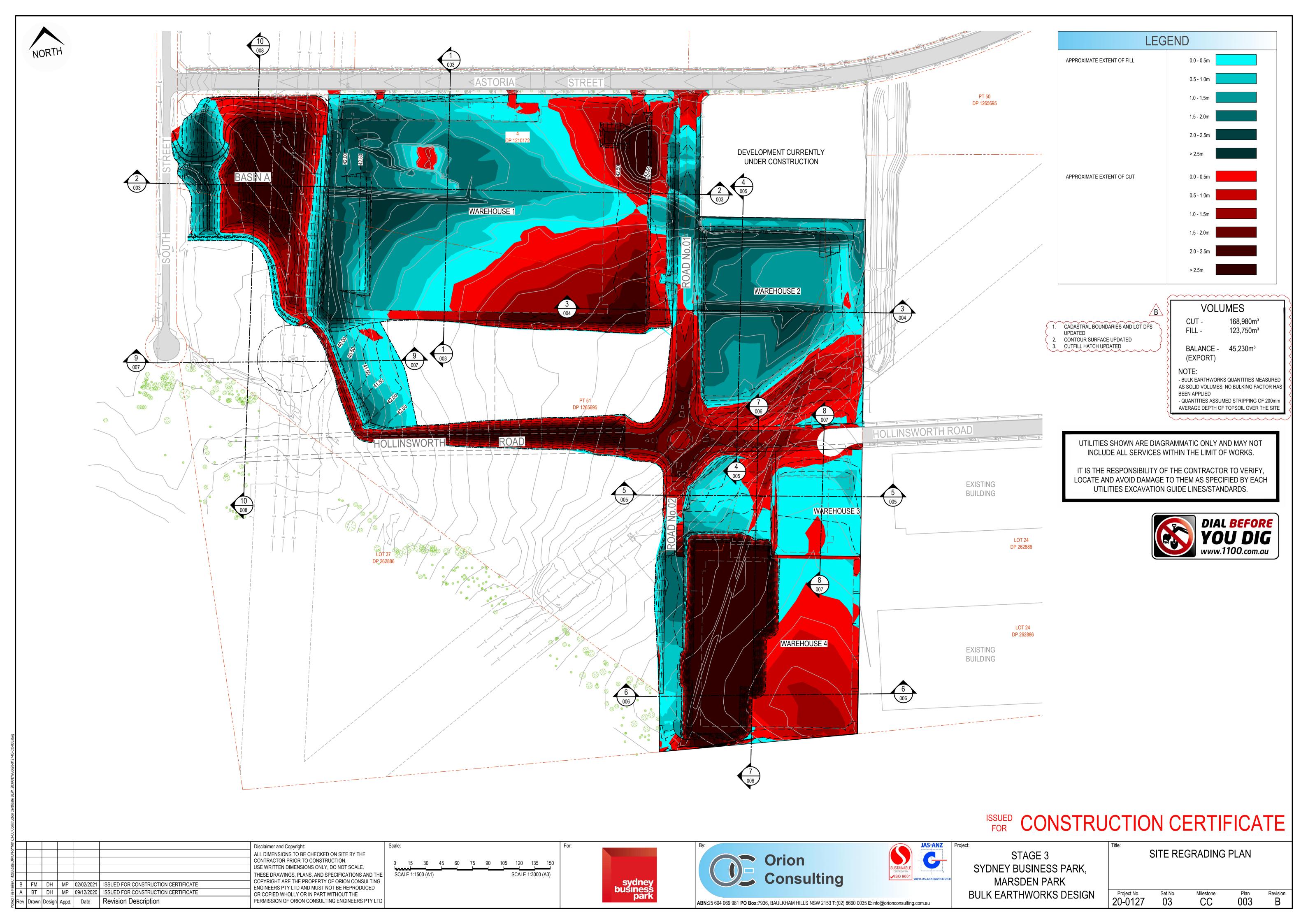
STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
BULK EARTHWORKS DESIGN

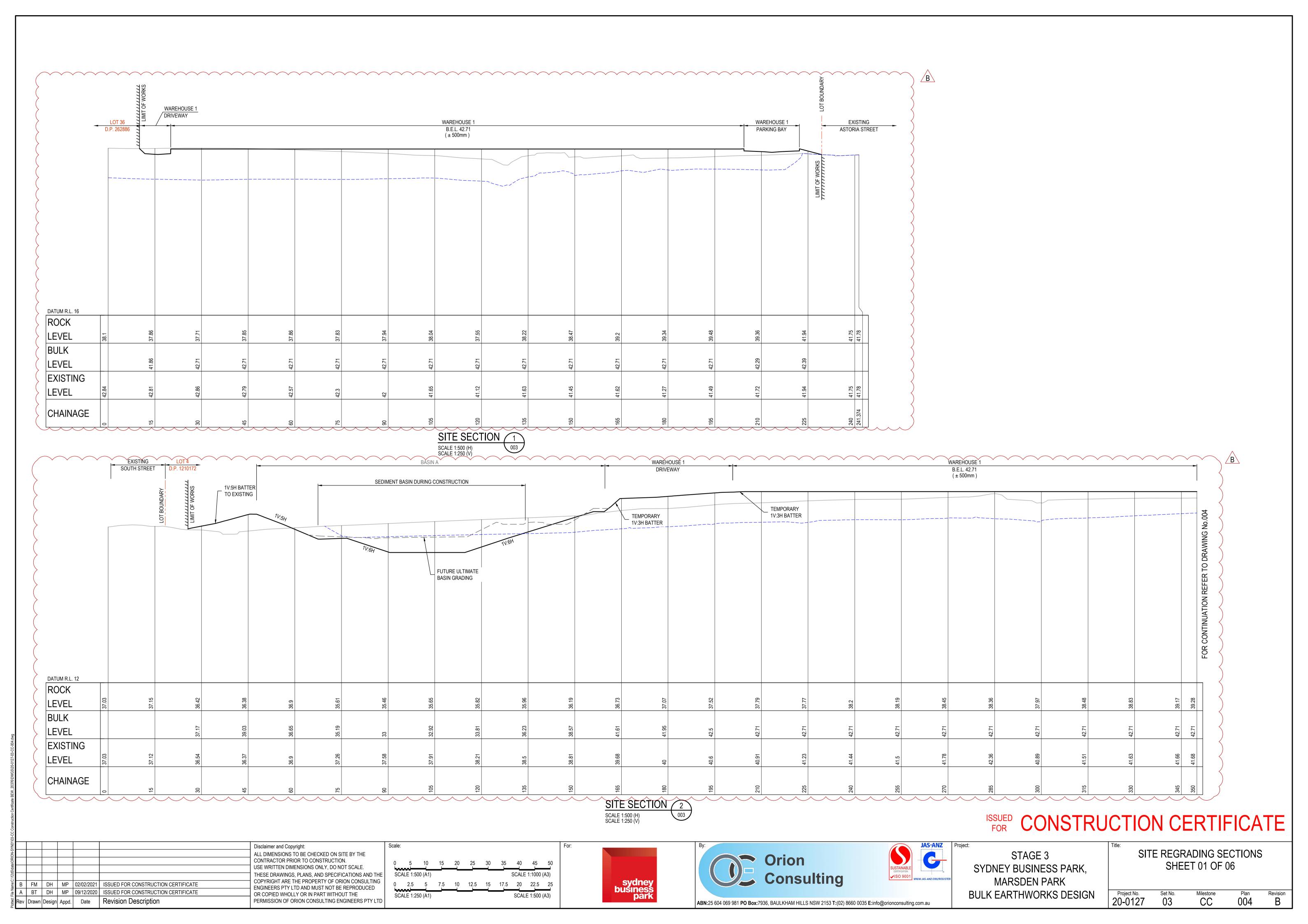
GENERAL NOTES

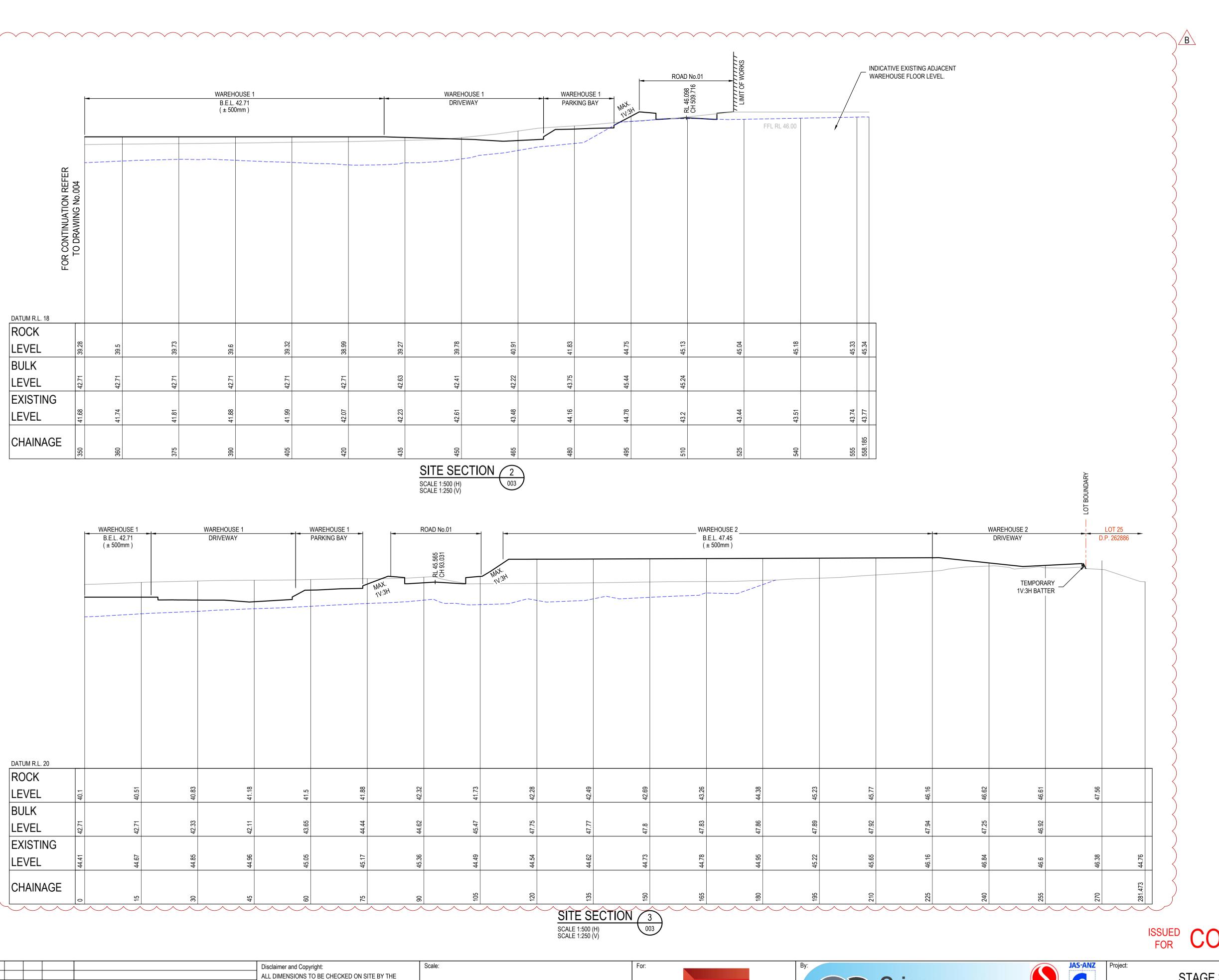
Project No. Set 20-0127 0

Set No. Milestone Plan 002

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au







LEGEN	ND
BULK EARTHWORKS LEVEL	
APPROXIMATE ROCK SURFACE	
EXISTING SURFACE	
FUTURE SURFACE LEVEL	
SITE BOUNDARY	

ROCK PROFILE INDICATIVE AND SUBJECT TO ACTUAL SITE CONDITIONS. SURFACE DERIVED FROM INFORMATION SUPPLIED BY DOUGLAS PARTNERS (GEOTECH REPORT).

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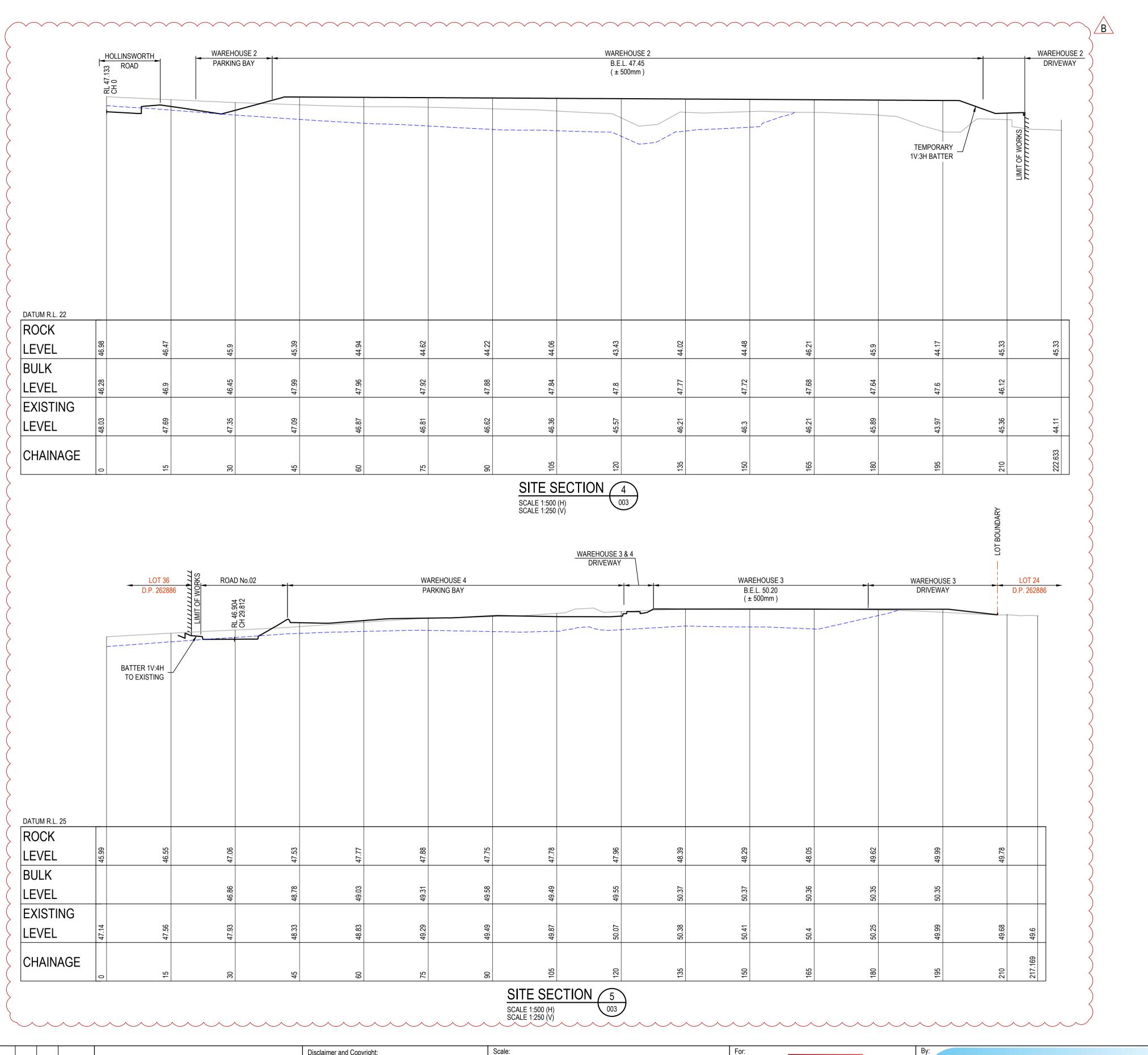






STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK BULK EARTHWORKS DESIGN SITE REGRADING SECTIONS SHEET 02 OF 06

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APPROXIMATE ROCK SURFACE							
EXISTING SURFACE							
FUTURE SURFACE LEVEL							
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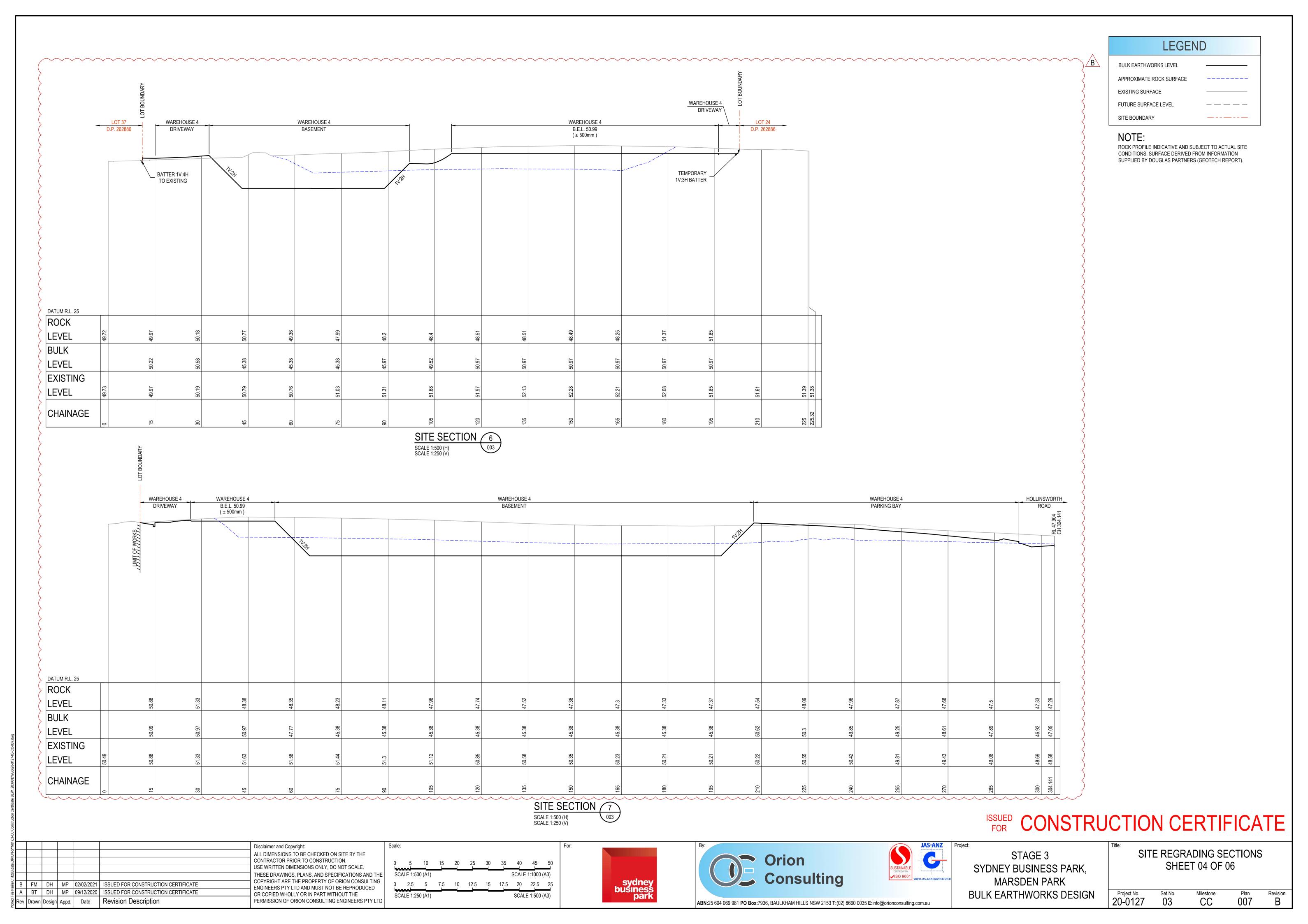


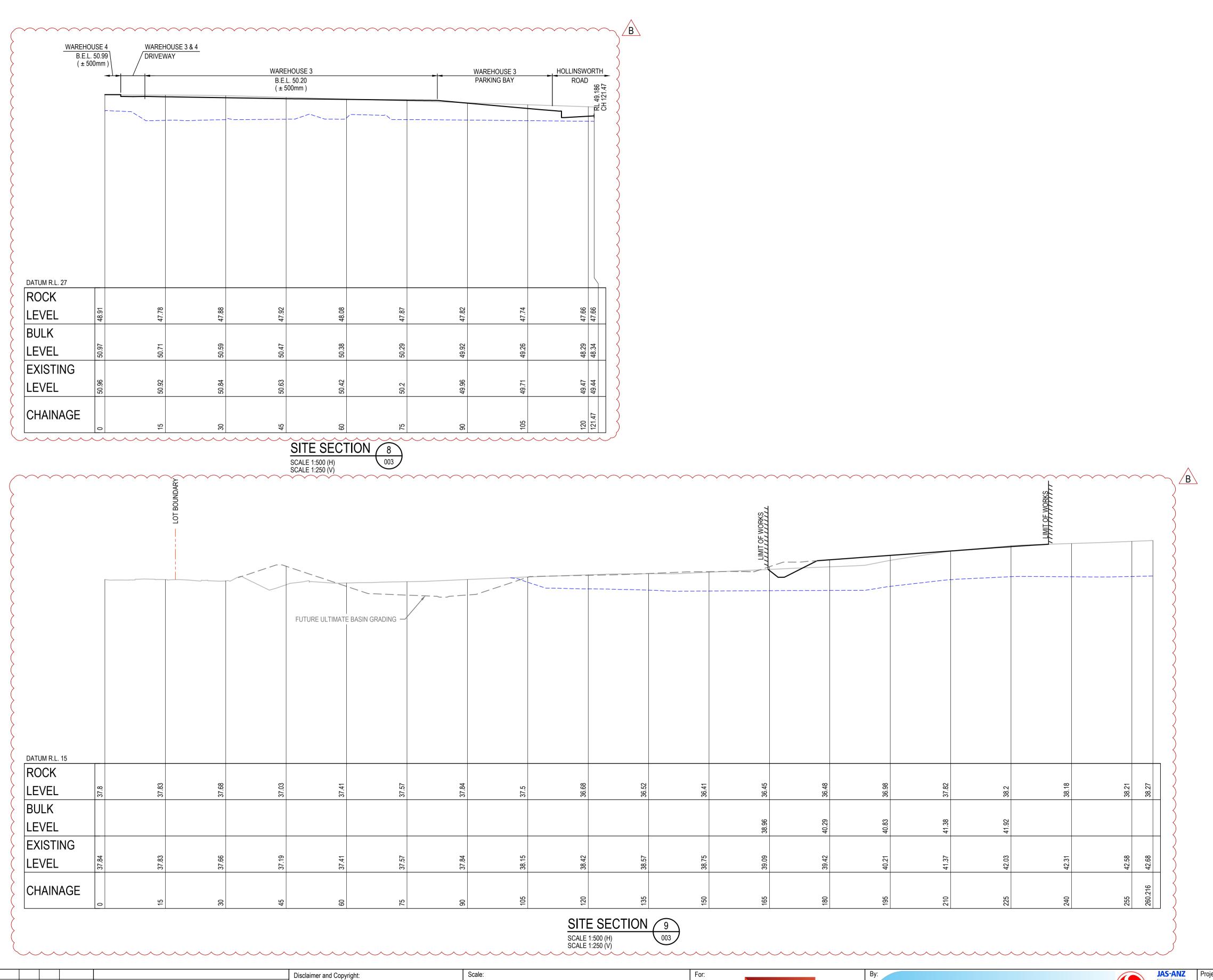




STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **BULK EARTHWORKS DESIGN**  SITE REGRADING SECTIONS SHEET 03 OF 06

Project No. 20-0127 006





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LEGEND BULK EARTHWORKS LEVEL APPROXIMATE ROCK SURFACE \_\_\_\_\_ EXISTING SURFACE FUTURE SURFACE LEVEL SITE BOUNDARY

NOTE:

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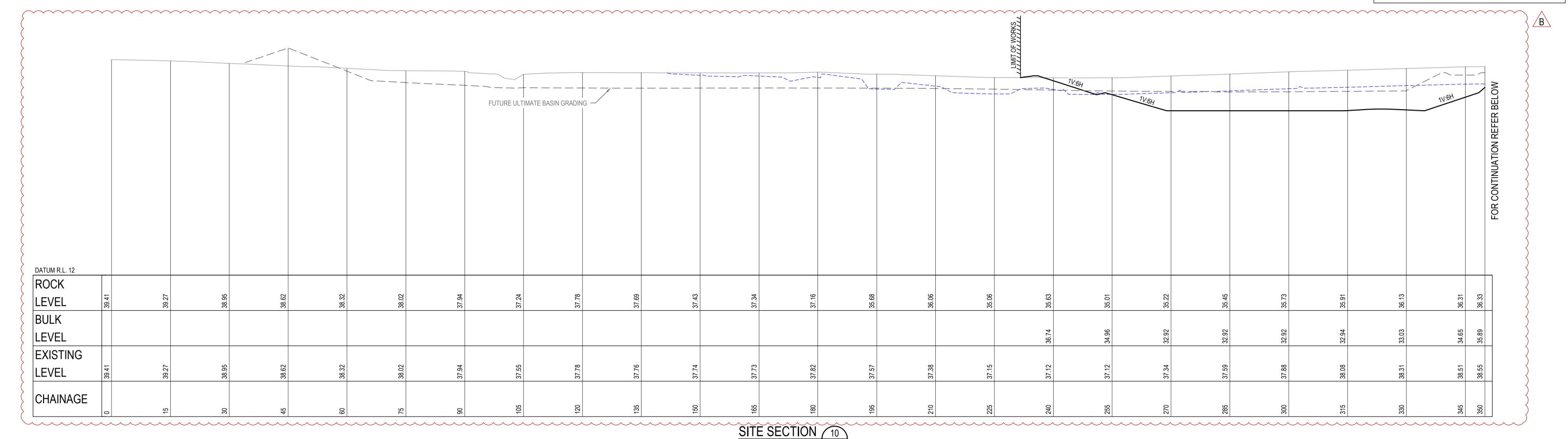
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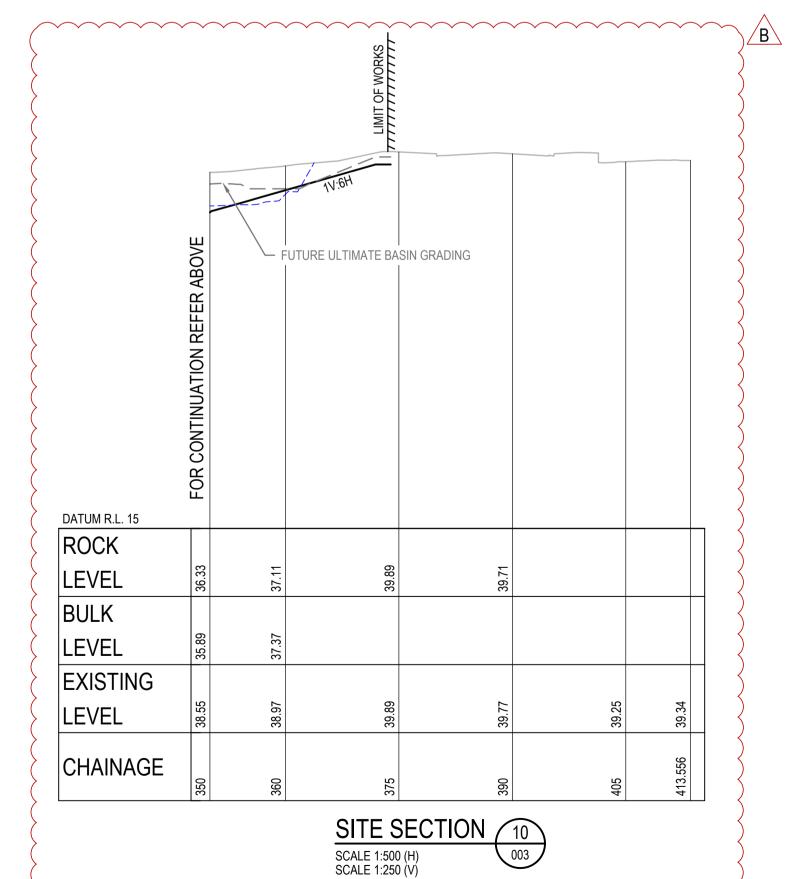
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NOTE:

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LEGEND BULK EARTHWORKS LEVEL APPROXIMATE ROCK SURFACE **EXISTING SURFACE** FUTURE SURFACE LEVEL SITE BOUNDARY





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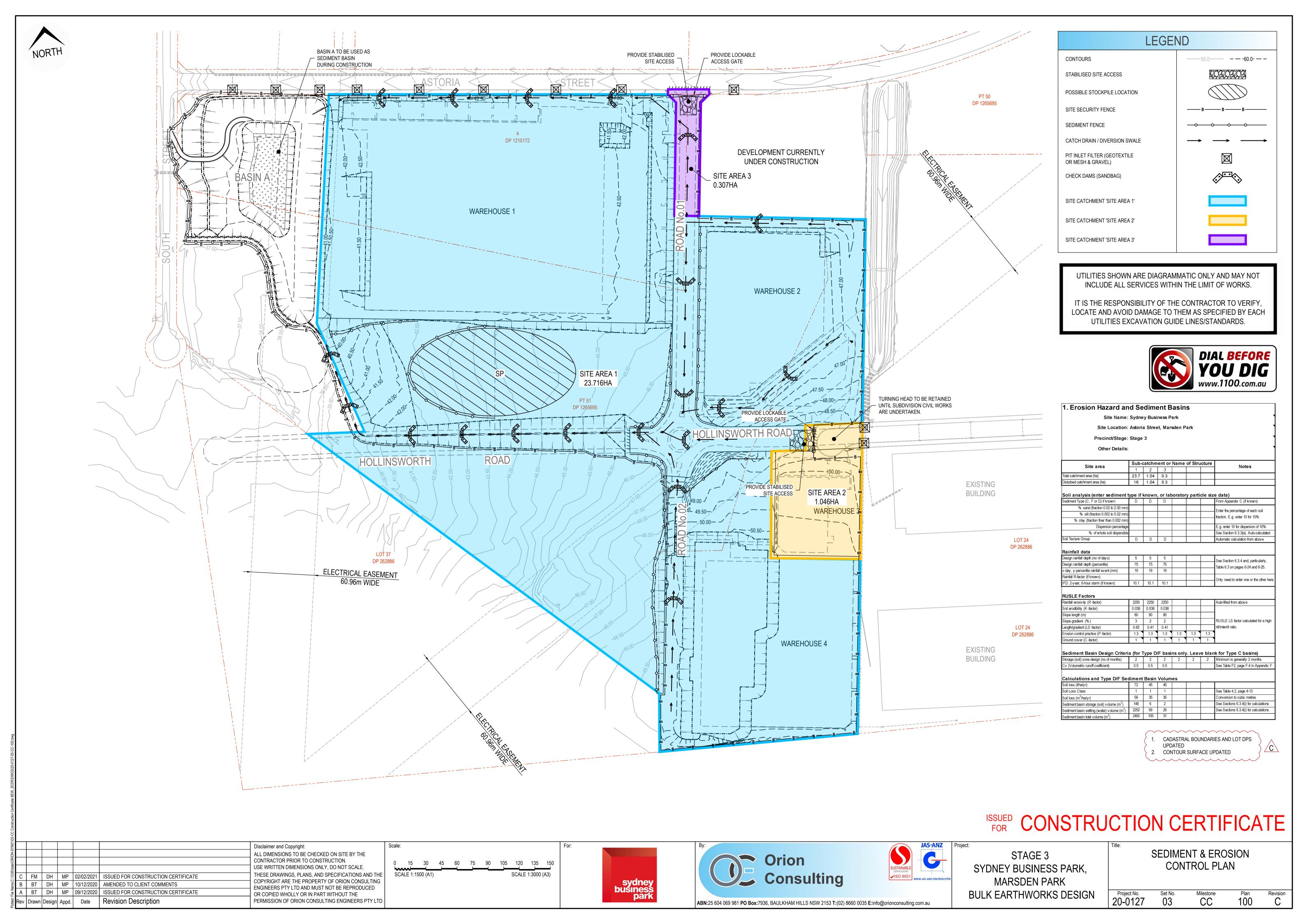






STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK BULK EARTHWORKS DESIGN SITE REGRADING SECTIONS SHEET 06 OF 06

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## **GENERAL NOTES:**

- I. ALL EROSION AND SEDIMENT CONTROL MEASURES. INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL. SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE "ENVIRONMENT PROTECTION AUTHORITY".AND "DEPT OF LAND AND WATER CONSERVATION". MEASURES OUTLINED IN THE SEDIMENT & EROSION CONTROL PLAN MUST BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING AND AFTER THE CONSTRUCTION WORKS.
- 2. TOPSOIL FROM ALL AREAS TO BE DISTURBED SHALL BE STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IN THOSE AREAS.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
- 4. ALL TAIL-OUT DRAINS SHALL BE GRASSED AND TRAPEZOIDAL IN SECTION. STRAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVICE WHERE REQUIRED.
- . VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING DEVELOPMENT CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS. AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED OFF.
- 6. DISTURBANCE OF VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS AND DRAINAGE LINES. NO LOT GRADING SHALL BE CARRIED OUT IN UNDISTURBED AREAS WITHOUT CONSULTATION WITH COUNCIL'S ENGINEER.
- ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN 14 WORKING DAYS FROM THE CONCLUSION OF LAND SHAPING.
- MINIMISE DUST BY WATERING WHEN REQUIRED

## STOCKPILE NOTES:

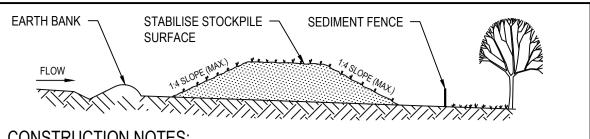
- 9. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
- 10. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 14 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH A MULCH OR WITH TEMPORARY
- 11. FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATE.
- 12. ALL STOCKPILES TO BE (MAX) 2m HIGH AND PROTECTED WITH SILT FENCE.

## **SPECIAL NOTES:**

- 13. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE.
- 14. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE GUIDELINES SET OUT IN "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION " -4TH EDITION AND THE ACCOMPANYING ROAD AND DRAINAGE PLANS.
- CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT.
- MANAGEMENT DEVICES SHALL BE MAINTAINED ON A REGULAR BASIS. WHERE CLEANING IS REQUIRED, THE SEDIMENT SHALL BE REMOVED TO A POINT NOMINATED BY THE ENGINEER.
- PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS, AND AFTER THE ROAD CENTRELINES HAVE BEEN PEGGED AND/OR PERMANENTLY MARKED, THE SITE MUST BE INSPECTED BY COUNCIL'S REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE TO IDENTIFY AND APPROPRIATELY
- a) THE TREES TO BE RETAINED. b) ALL TREES TO BE LEFT UNDISTURBED AND TO BE CORDONED OFF.
- 18. NO TREES SHALL BE REMOVED WITHOUT COUNCIL'S CLEARANCE.
- 19. MANAGEMENT DEVICES TO REMAIN UNTIL THE END OF THE MAINTENANCE PERIOD.

## SEDIMENTATION CONTROL DEVICES:

- 20. ALL STRAW BALES SHALL BE BOUND WITH WIRE. STRAW BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALE SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 450mm INTO THE GROUND AND LOCATED ON THE BALE CENTRE LINE.
- 21. SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2m (3m MAX) CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.



**CONSTRUCTION NOTES:** 

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION,

CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.

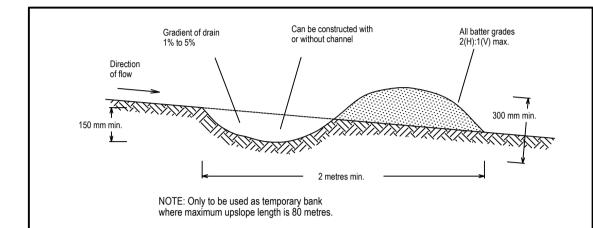
- CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS  $3.\ \ \$  Where there is sufficient area. Topsoil stockpiles shall be less than 2 metres in Height
- 4. ALL STOCKPILES ARE TO BE LOCATED AND PLACED IN ACCORDANCE WITH THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN.
- 5. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) NO STABILISATION IS REQUIRED. REVIEW THE ADEQUACY OF SEDIMENT CONTROLS IF RAINFALL IS PREDICTED.

6. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) THE FOLLOWING ADDITIONAL CONTROLS ARE

- -MAXIMUM BATTER SLOPE REDUCED TO 1:4
- -CONSTRUCT A CONTOUR DRAIN ON THE LOW SIDE OF THE STOCKPILE, AND DISCHARGING THROUGH A STRAW BALE OR 200mm HIGH GRAVEL DAM -ESTABLISH GRASS COVER TO SURFACE OF STOCKPILE WITHIN 14 DAYS, USING HYDROMULCH WITH A
- 75:25 MIX OF SEASONAL AND PERMANENT GRASS SEEDS, AND A STRAW MULCH THICKNESS OF NO
- CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE.

**STOCKPILES** 

SD 4-1

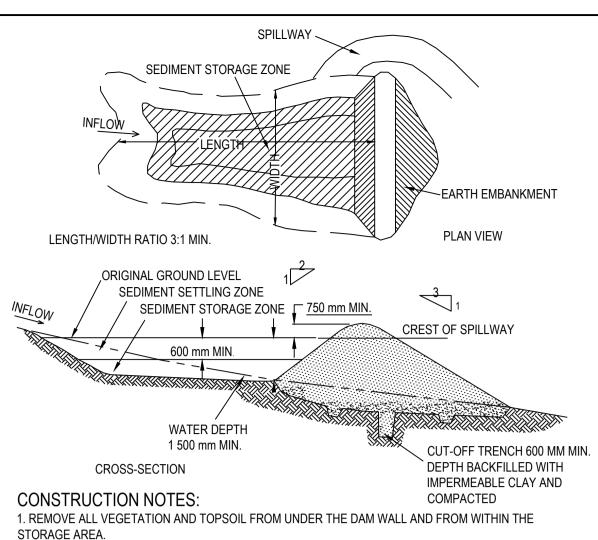


Construction Notes

- 1. Build with gradients between 1 percent and 5 percent
- 2. Avoid removing trees and shrubs if possible work around them. 3. Ensure the structures are free of projections or other irregularities that could impede water flow.
- 4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
- 5. Ensure the banks are properly compacted to prevent failure. 6. Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW)

SD 5-5



2. CONSTRUCT A CUT-OFF TRENCH 500 MM DEEP AND 1,200 MM WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST. 3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.

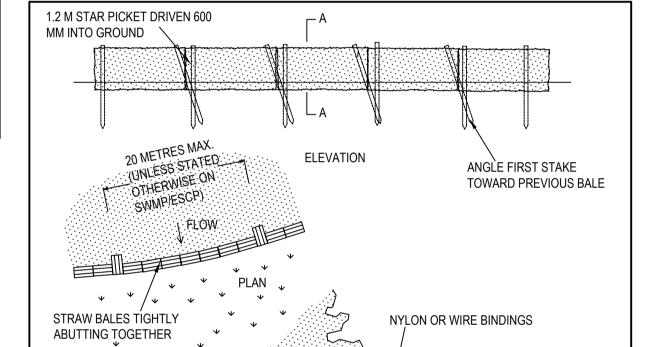
4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR 5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100 MM TO HELP BOND

COMPACTED FILL TO THE EXISTING SUBSTRATE 6. SPREAD THE FILL IN 100 MM TO 150 MM LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.

7. CONSTRUCT THE EMERGENCY SPILLWAY. 8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP

EARTH BASIN - WET

(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY)



← 1.5 M TO 2 M →

DISTURBED AREA BALES EMBEDDED 100/ SECTION AA MM INTO GROUND

**CONSTRUCTION NOTES:** 1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE

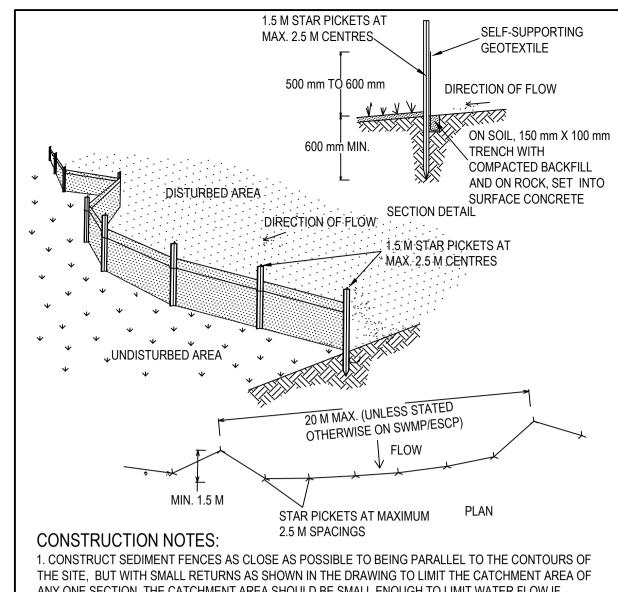
CONTOURS OF THE SITE. 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.

3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE. 4. EMBED EACH BALE IN THE GROUND 75 mm TO 100 mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE.DRIVE THEM 600 mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES,

ENSURE THEY ARE FITTED WITH SAFETY CAPS. 5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.

6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED -THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

STRAW BALE FILTER SD 6-7



ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE

2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE

3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH, ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS. 4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE

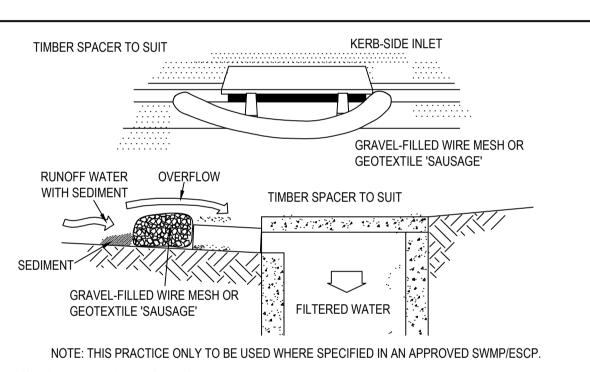
MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE

OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY. 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAF

6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

## SEDIMENT FENCE

SD 6-8



CONSTRUCTION NOTES:

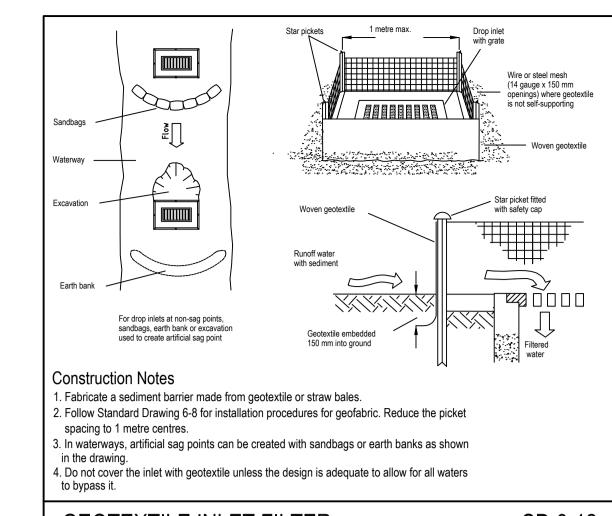
1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS. 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.

3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE. 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.

5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER. 6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

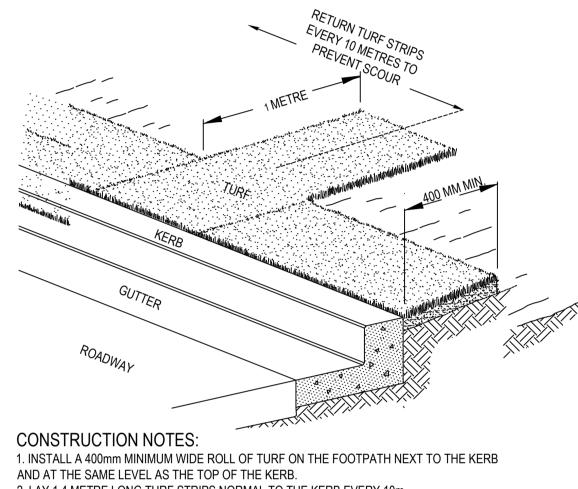
MESH AND GRAVEL INLET FILTER

SD 6-11



GEOTEXTILE INLET FILTER

SD 6-12

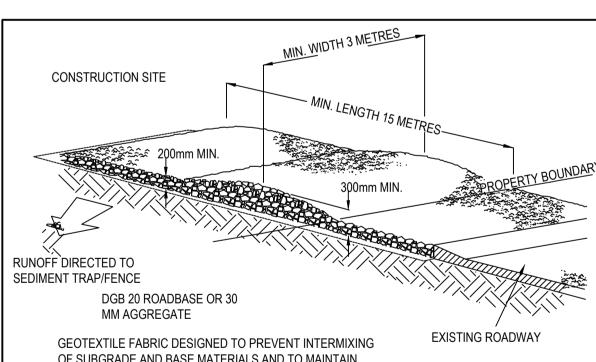


2. LAY 1.4 METRE LONG TURF STRIPS NORMAL TO THE KERB EVERY 10m.

3. REHABILITATE DISTURBED SOIL BEHIND THE TURF STRIP FOLLOWING THE ESCP/SWMP.

# KERBSIDE TURF STRIP

SD 6-13



OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N

**CONSTRUCTION NOTES:** 1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.

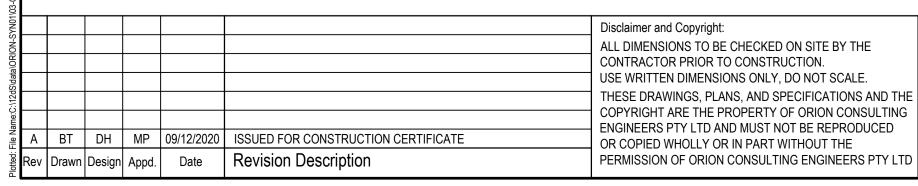
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE. 3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. 4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST

5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE

STABILISED SITE ACCESS

SD 6-14

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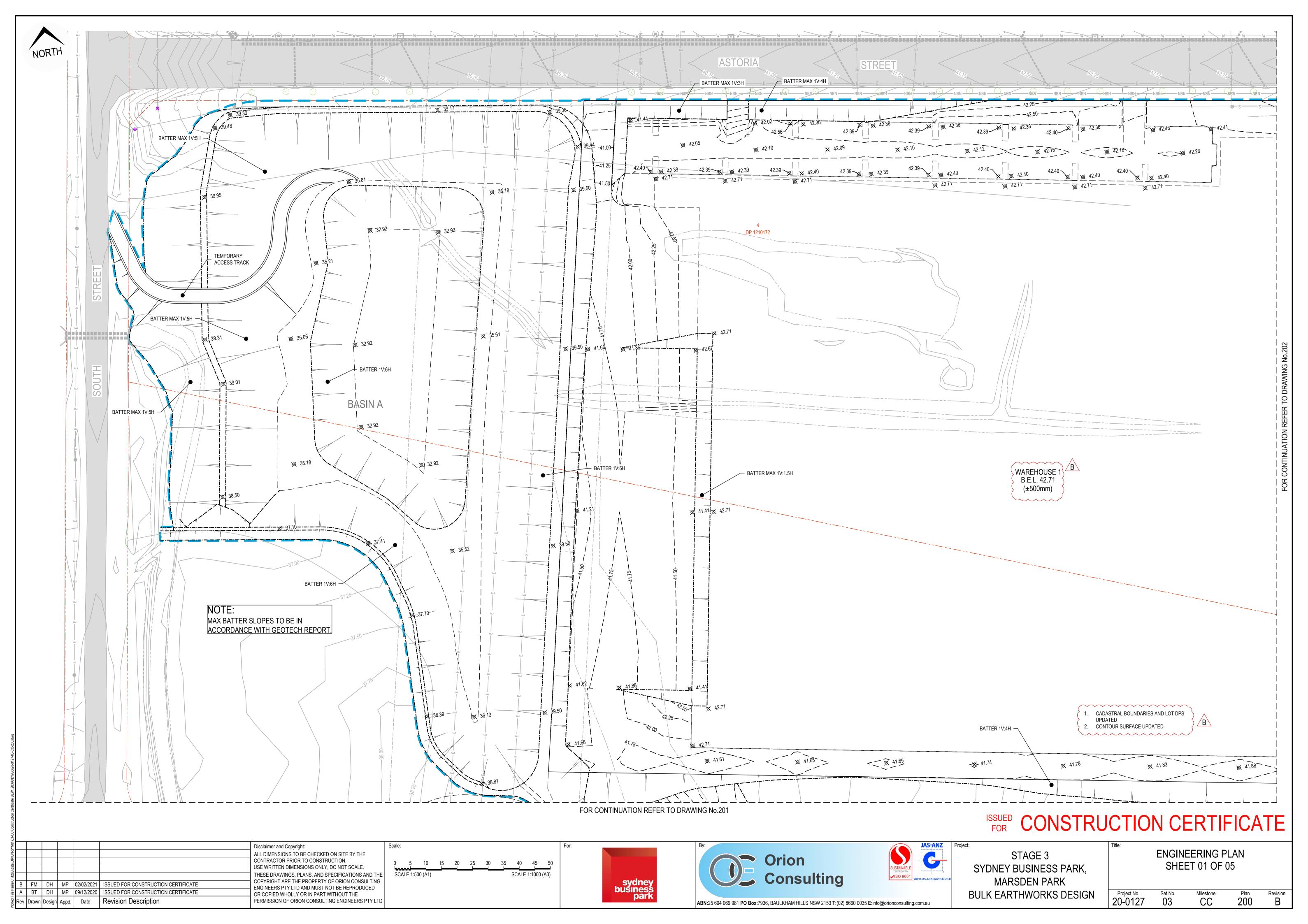


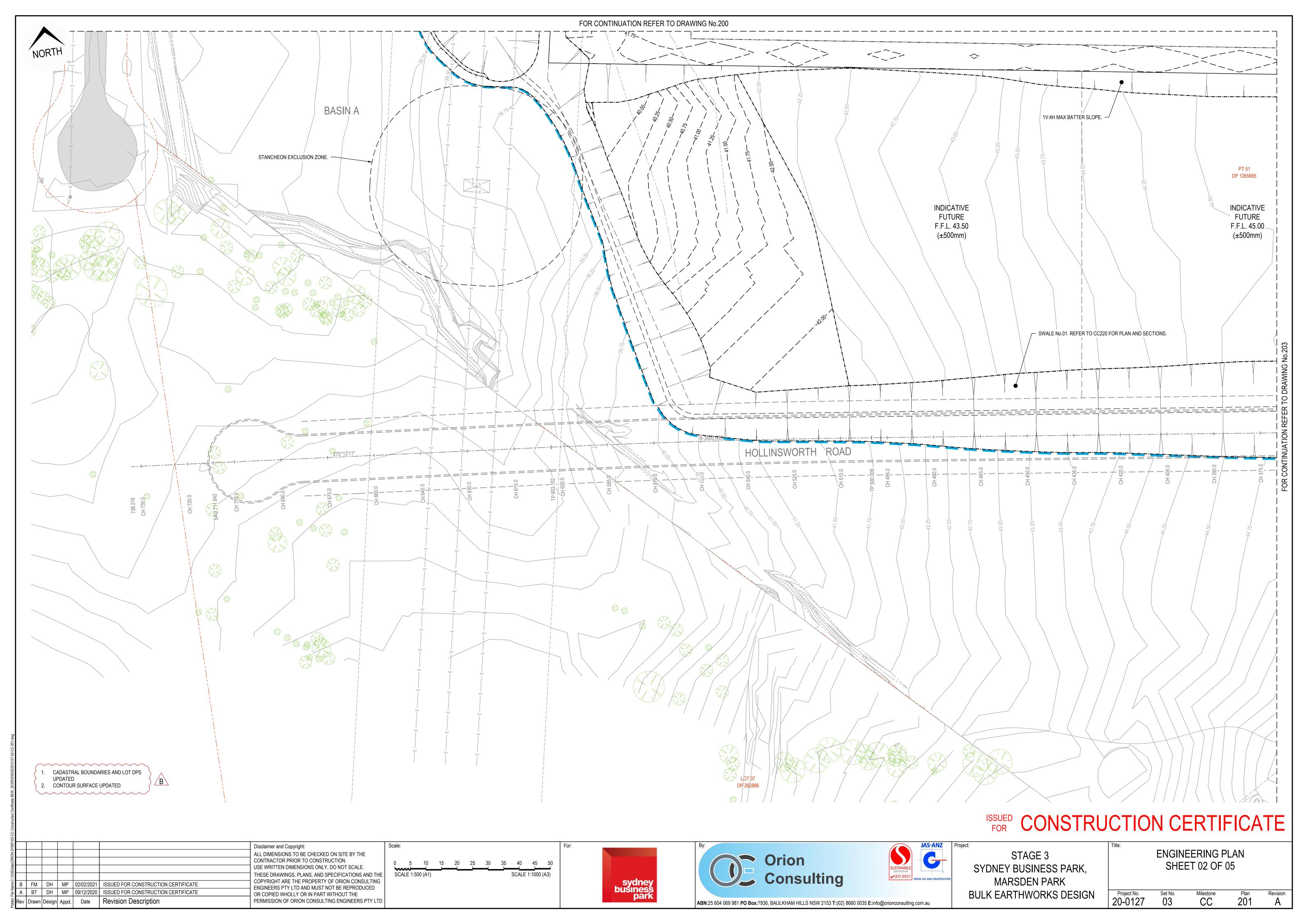


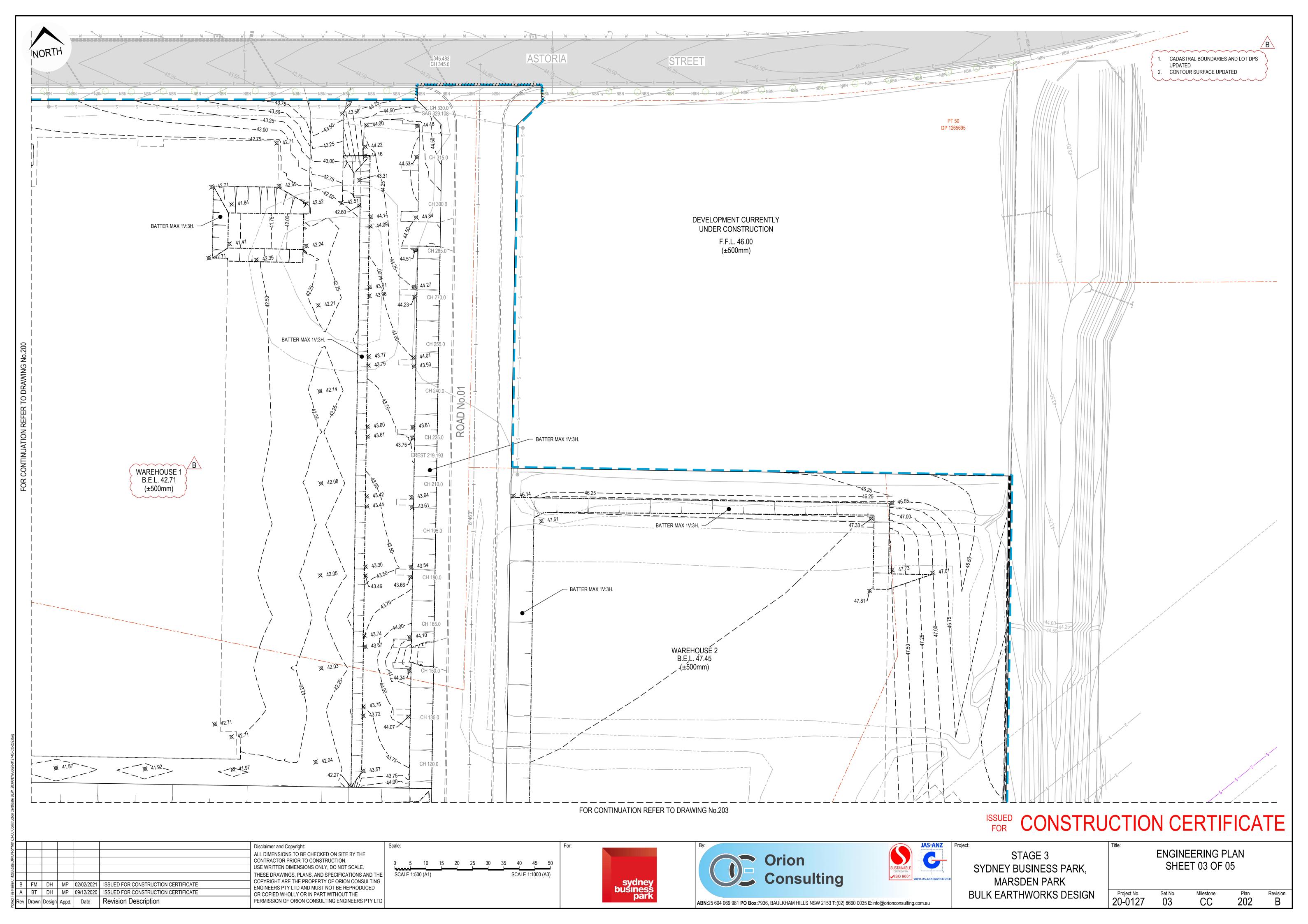
STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **BULK EARTHWORKS DESIGN**  **SEDIMENT & EROSION CONTROL NOTES** & DETAILS

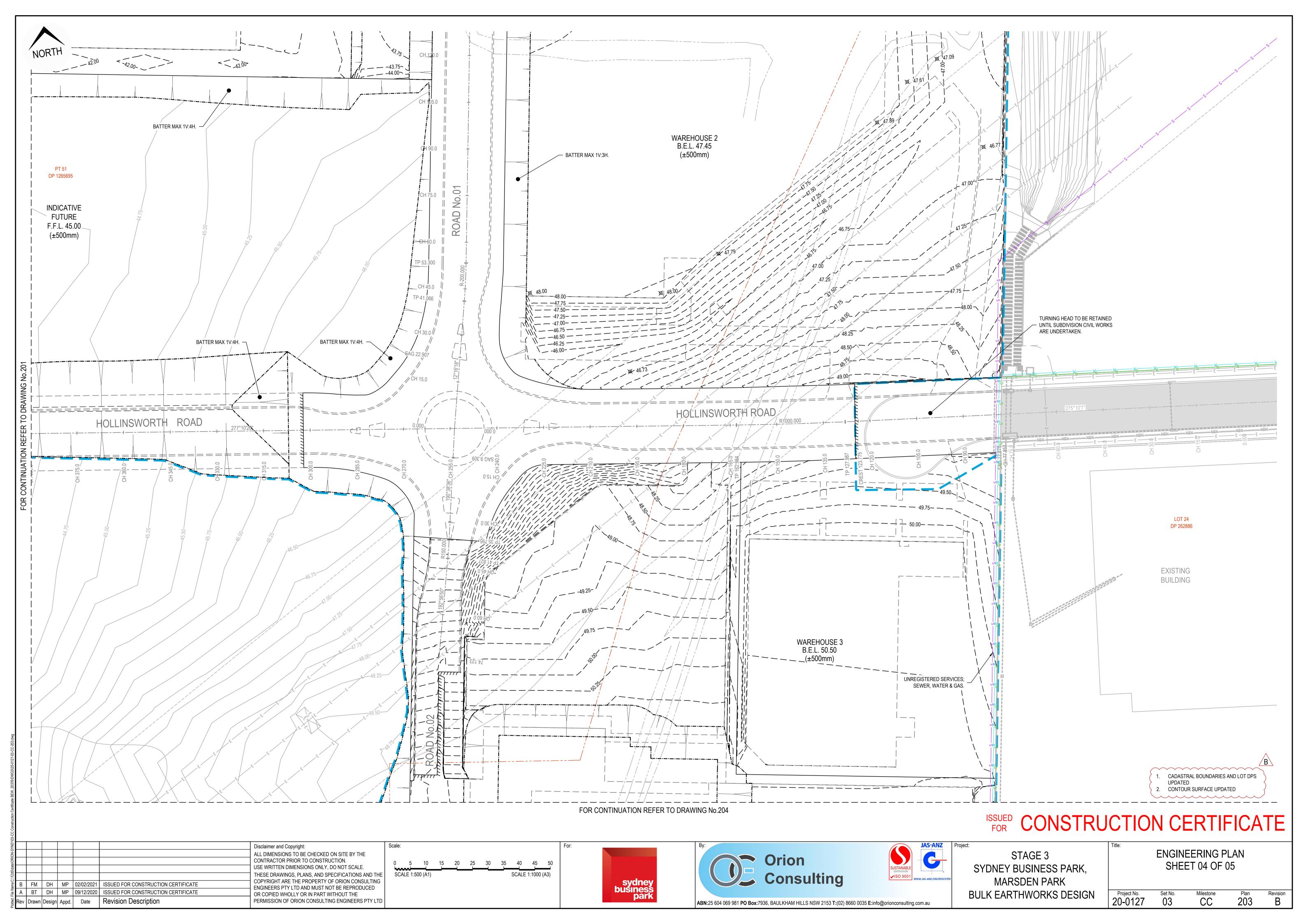
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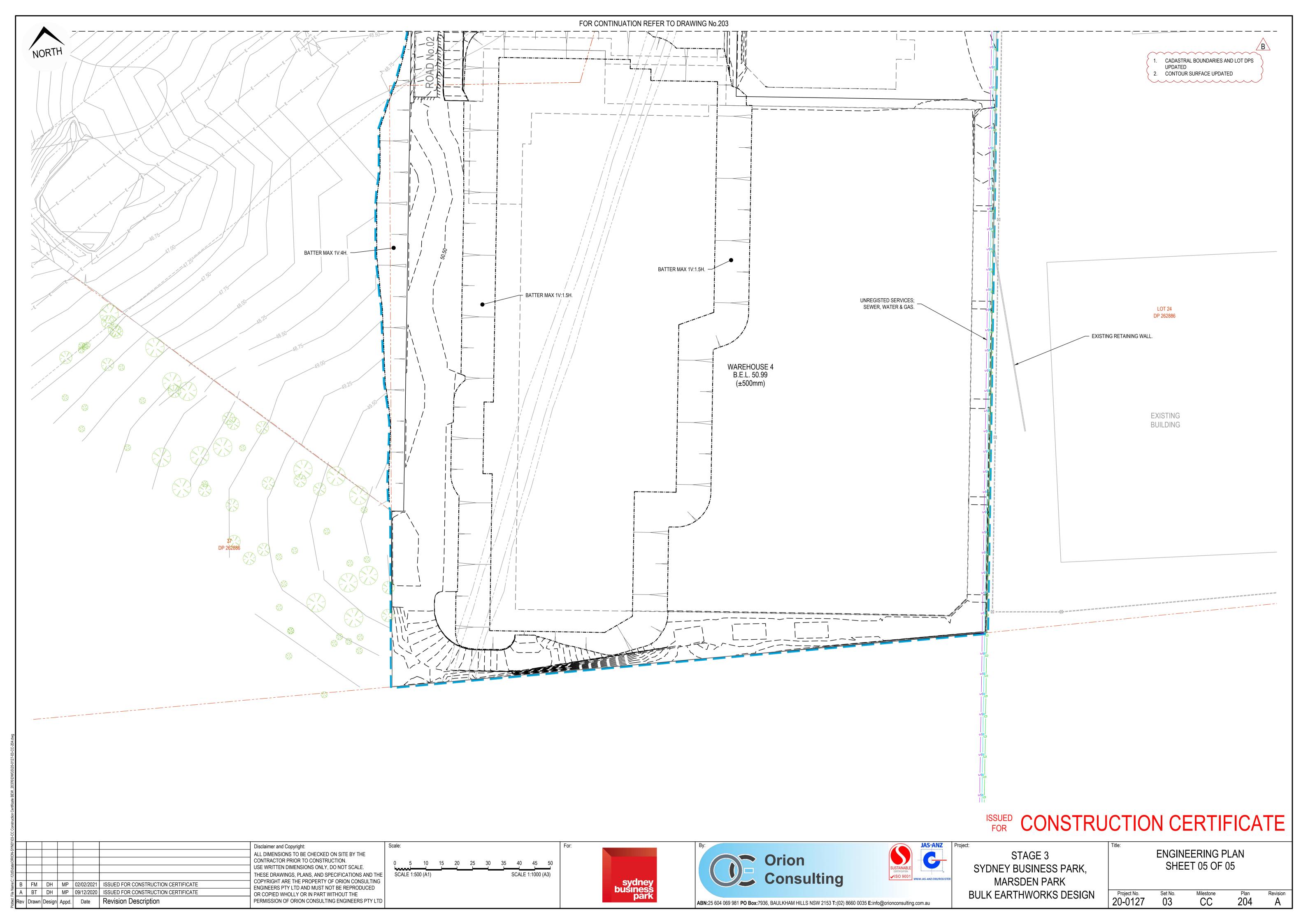
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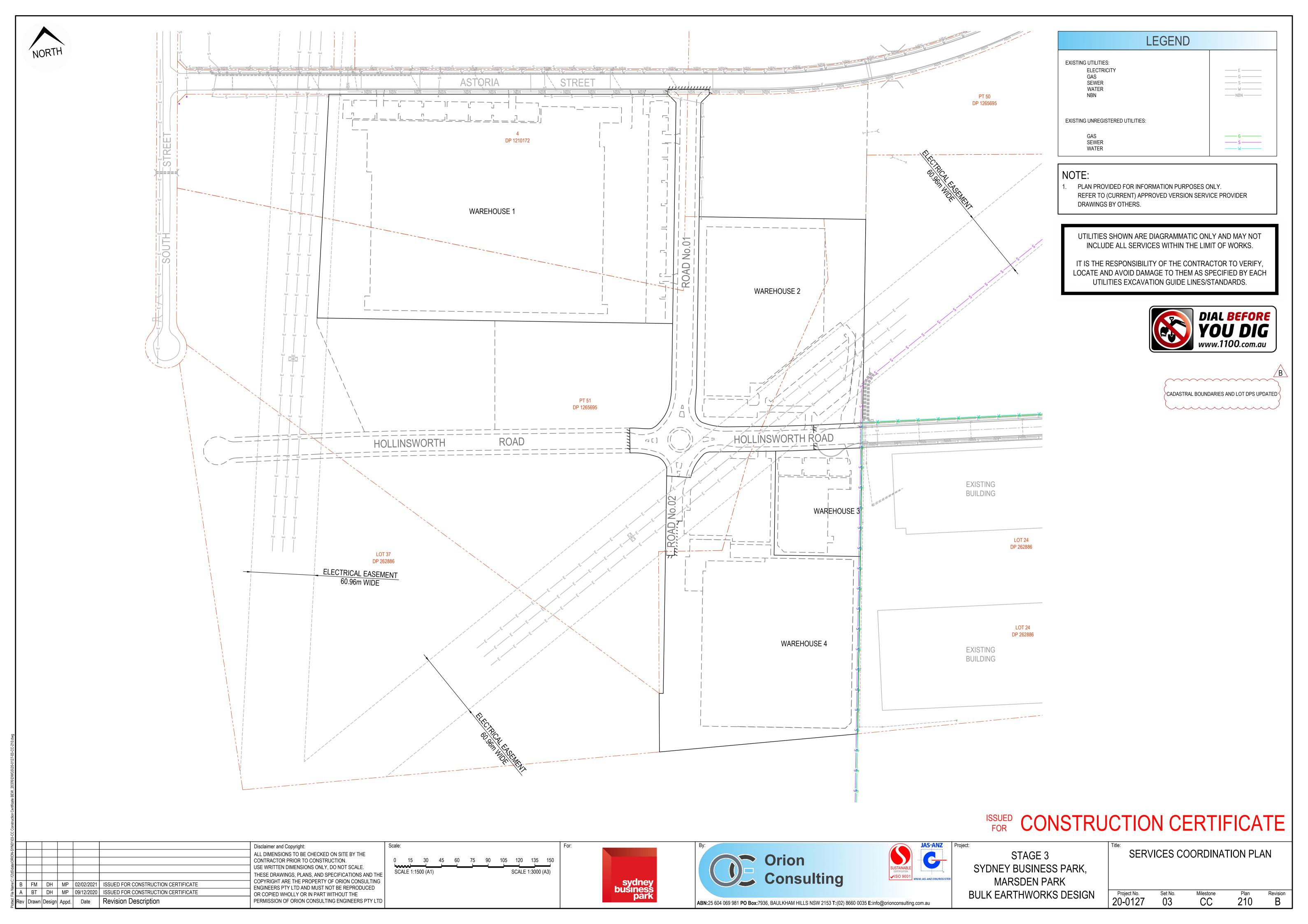


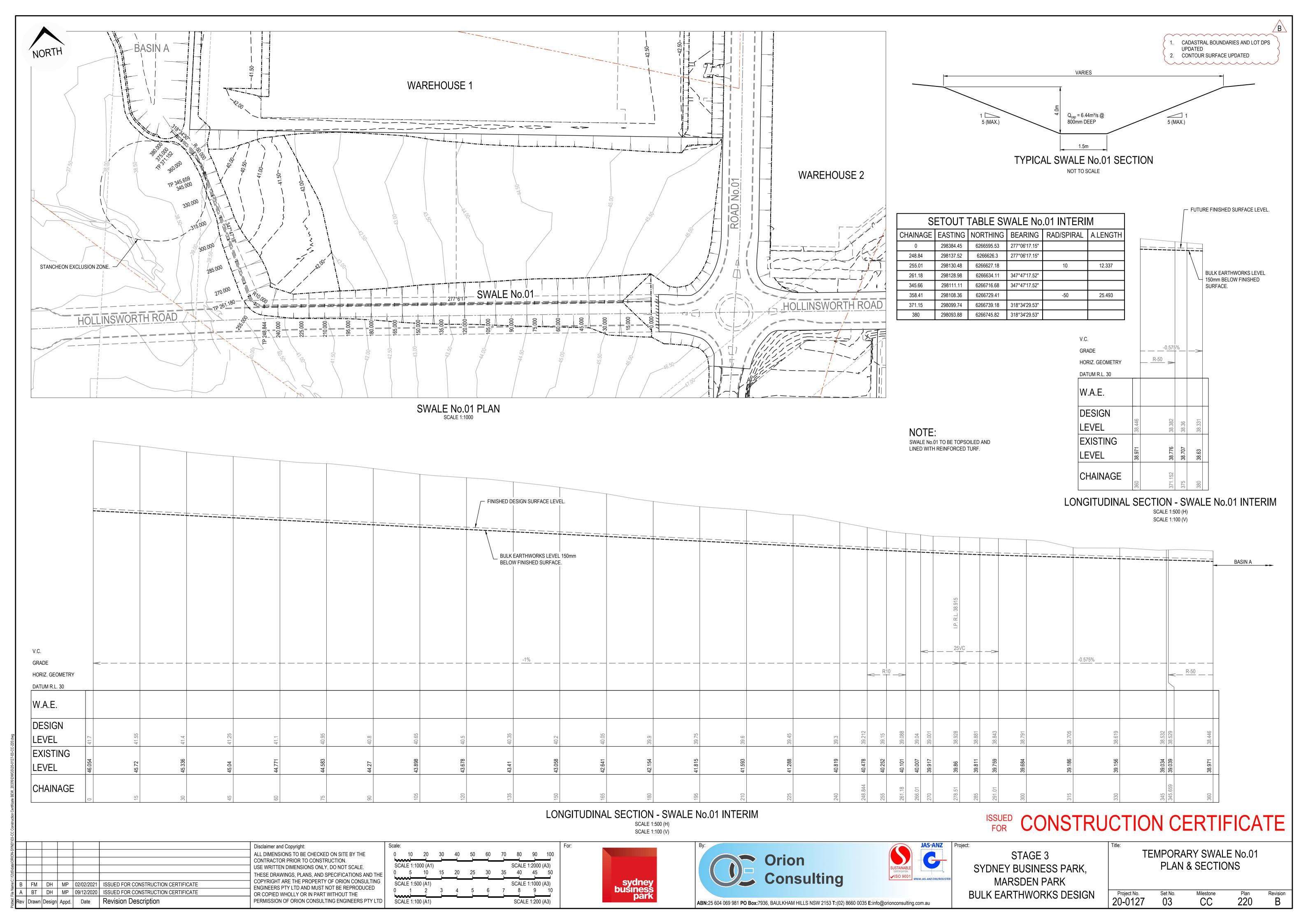


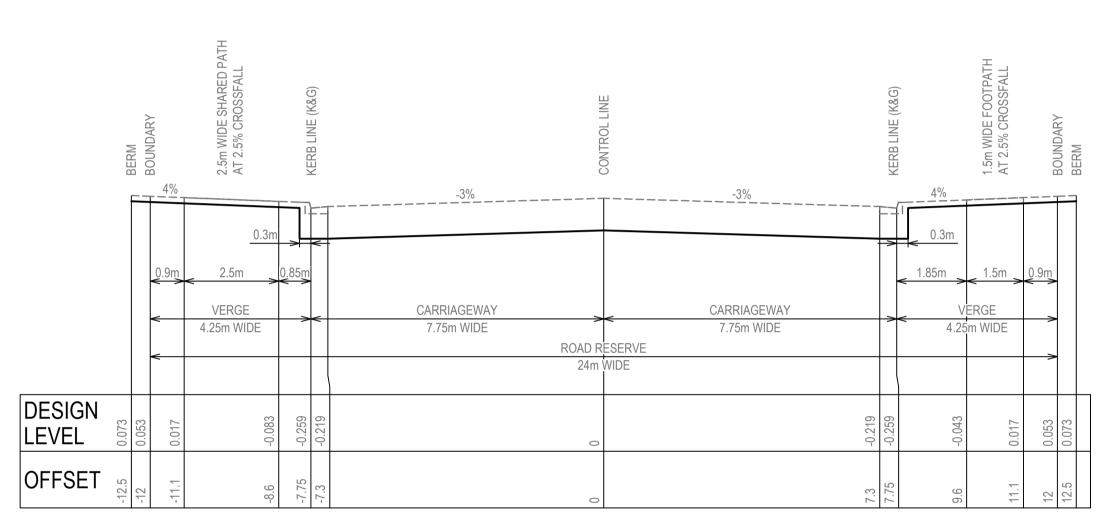












TYPICAL CROSS SECTION - HOLLINSWORTH ROAD

CARRIAGEWAY 7.75m WIDE CARRIAGEWAY ROAD RESERVE 24m WIDE DESIGN LEVEL

TYPICAL CROSS SECTION - ROAD No.01 & 02

NOTE:

ROAD PROFILES SHOWN IN TYPICAL CROSS SECTIONS TO BE PART OF FUTURE CIVIL WORKS AND NOT A PART OF THIS APPROVAL.

SE	SETOUT TABLE HOLLINSWORTH ROAD										
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH						
0	298688.64	6266554.57	275°10'01.00"								
127.99	298561.17	6266566.09	275°10'01.00"								
145.49	298543.74	6266567.67		1000	34.996						
162.98	298526.38	6266569.86	277°10'19.53"								
500.01	298191.99	6266611.93	277°10'19.53"								
551.56	298140.84	6266618.37		-3000	103.093						
603.1	298089.5	6266623.04	275°12'11.41"								
738.22	297954.95	6266635.3	275°12'11.41"								

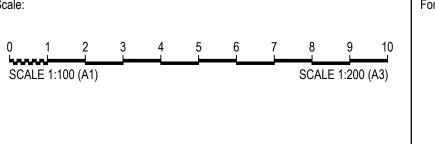
	SET	OUT TAB	LE ROAD	No.01	
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	298436.46	6266581.17	12°16'17.84"		
41.07	298445.19	6266621.3	12°16'17.84"		
47.18	298446.49	6266627.28		-200	12.235
53.3	298447.42	6266633.32	8°46'00.00"		
345.48	298491.96	6266922.09	8°46'00.00"		

	SET	OUT TAB	LE ROAD	No.02	
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	298436.46	6266581.17	190°38'35.65"		
35.8	298429.85	6266545.99	190°38'35.65"		
38.81	298429.29	6266543.03		150	6.032
41.83	298428.62	6266540.09	192°56'49.84"		
74.12	298421.38	6266508.61	192°56'49.84"		

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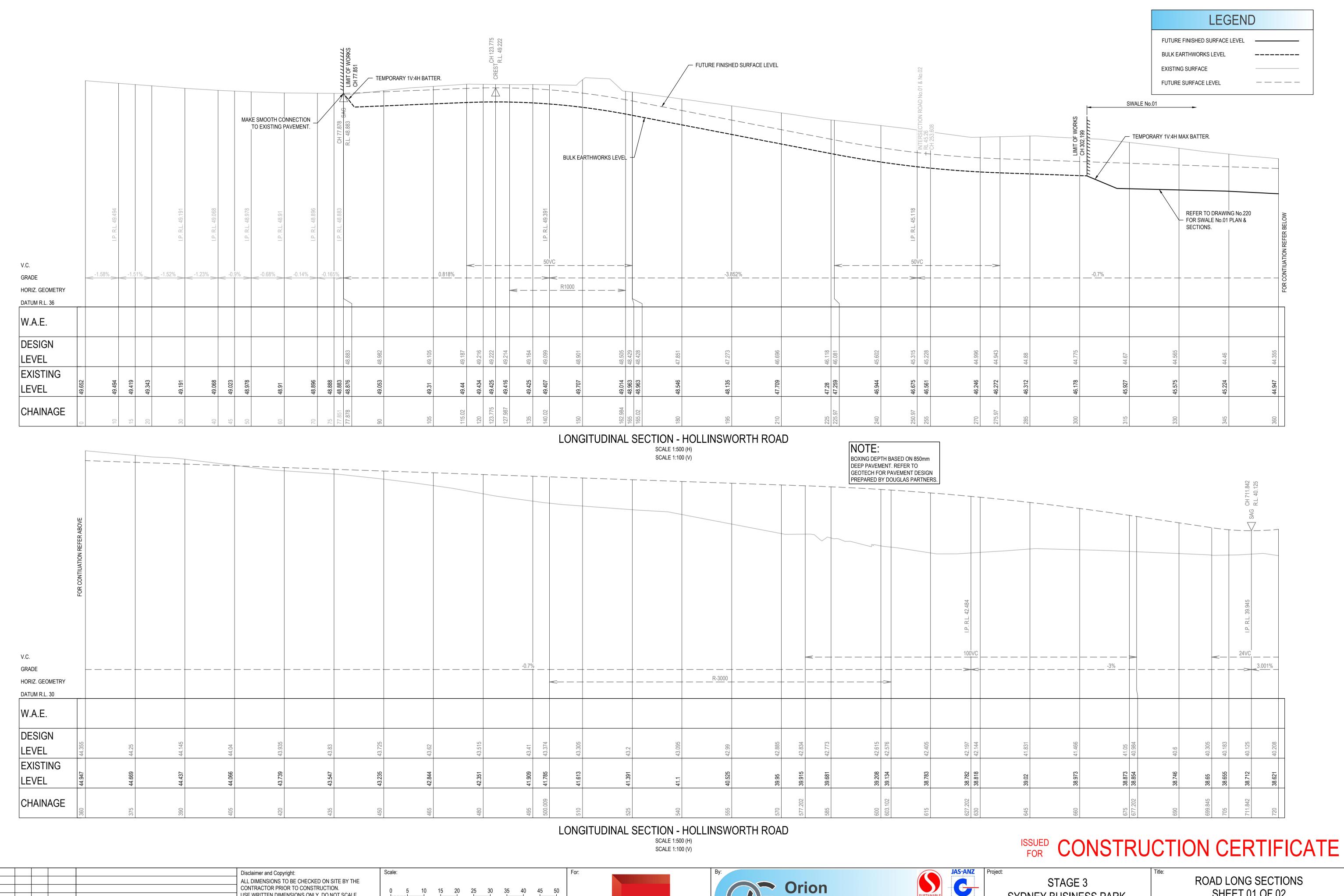




STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK BULK EARTHWORKS DESIGN

TYPICAL ROAD CROSS SECTIONS & SETOUT TABLES

Project No. 20-0127



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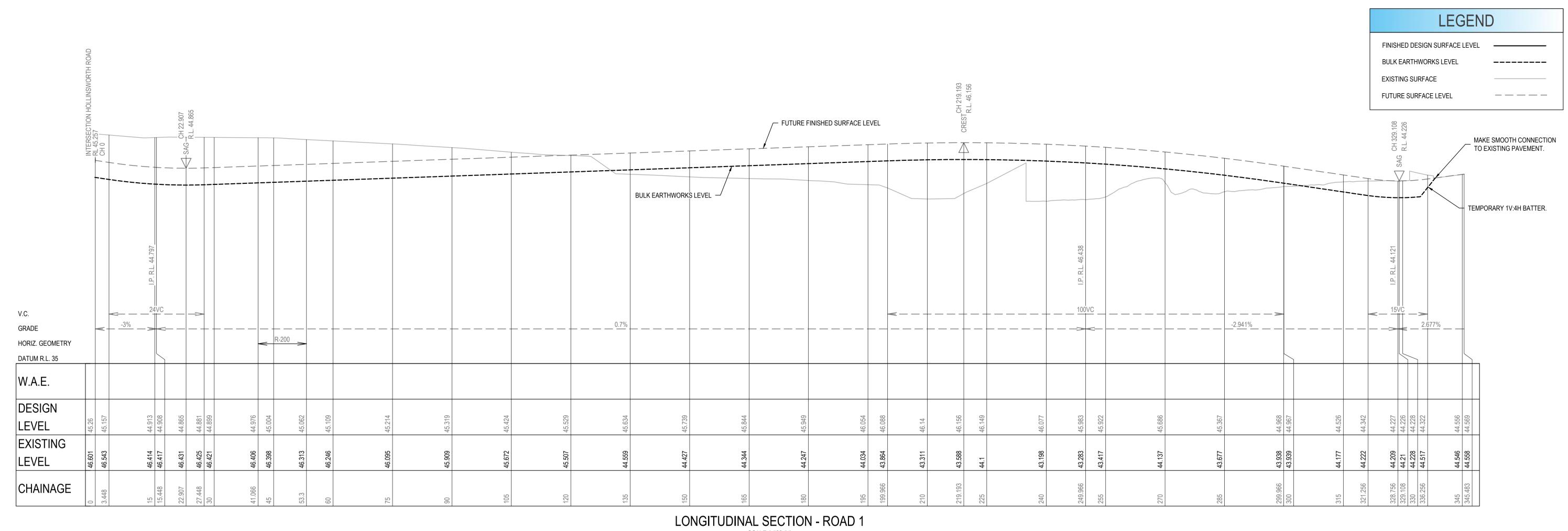




SYDNEY BUSINESS PARK, MARSDEN PARK **BULK EARTHWORKS DESIGN**  SHEET 01 OF 02

301

Project No. 20-0127



SCALE 1:500 (H)

SCALE 1:100 (V)

FUTURE FINISHED SURFACE LEVEL -BULK EARTHWORKS LEVEL V.C. GRADE R150 HORIZ. GEOMETRY DATUM R.L. 37 W.A.E. DESIGN LEVEL EXISTING LEVEL CHAINAGE

NOTE: BOXING DEPTH BASED ON 850mm
DEEP PAVEMENT. REFER TO
GEOTECH FOR PAVEMENT DESIGN
PREPARED BY DOUGLAS PARTNERS.

## LONGITUDINAL SECTION - ROAD 2 SCALE 1:500 (H)

SCALE 1:100 (V)

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Scale:

SCALE 1:100 (A1)

0 5 10 15 20 25 30 35 40 45 50 SCALE 1:1000 (A3) SCALE 1:500 (A1)

sydney business park

SCALE 1:200 (A3)



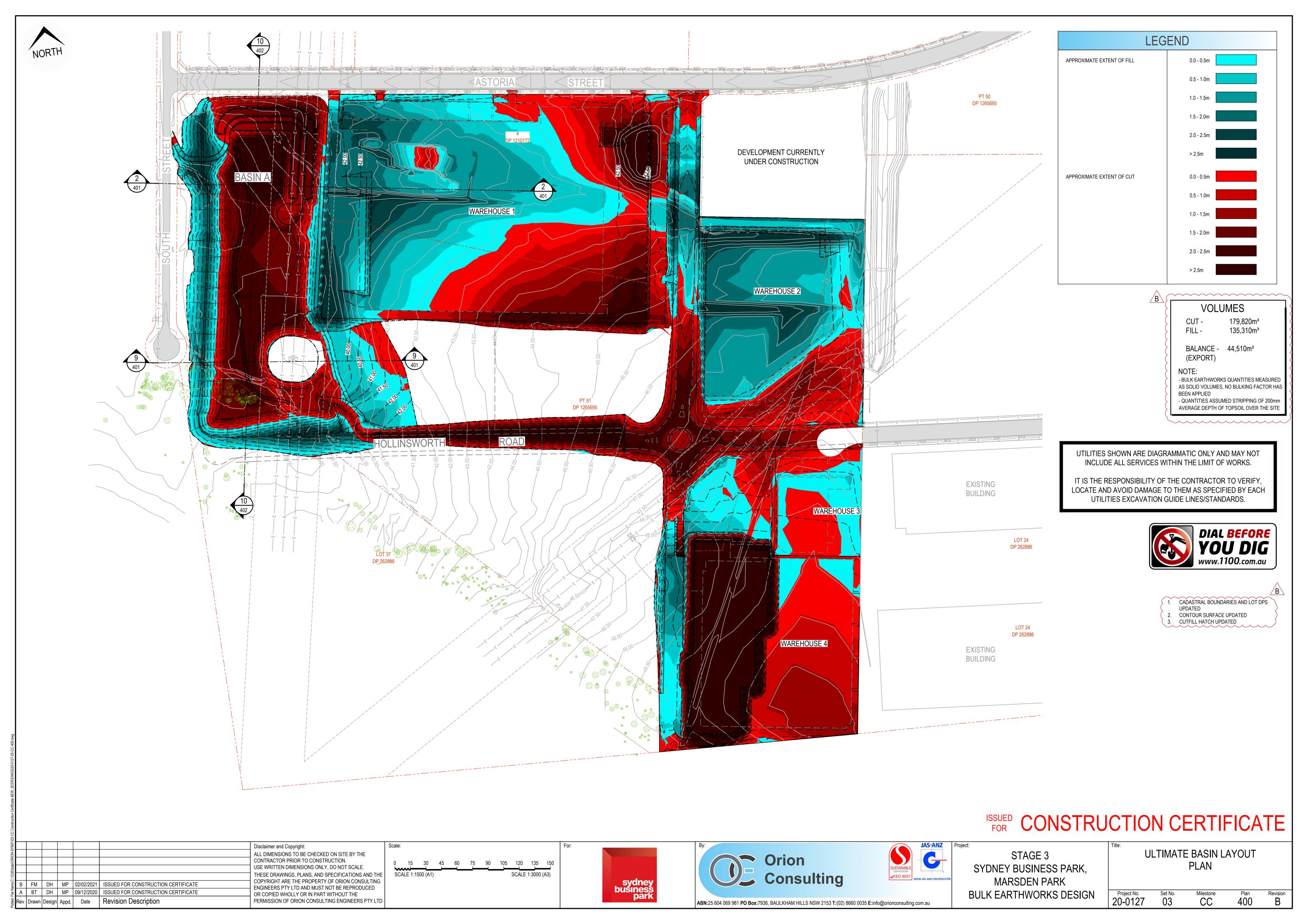


STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **BULK EARTHWORKS DESIGN** 

**ROAD LONG SECTIONS** SHEET 02 OF 02 Project No. 20-0127

302

FOR CONSTRUCTION CERTIFICATE



NOTE: LEGEND ROCK PROFILE INDICATIVE AND SUBJECT TO ACTUAL SITE CONDITIONS. SURFACE DERIVED FROM INFORMATION SUPPLIED BY DOUGLAS PARTNERS (GEOTECH REPORT). BULK EARTHWORKS LEVEL APPROXIMATE ROCK SURFACE EXISTING SURFACE FUTURE SURFACE LEVEL SITE BOUNDARY EXISTING LOT 4
SOUTH STREET D.P. 1210172 B.E.L. 42.71 ( ± 500mm ) DRIVEWAY SEDIMENT BASIN DURING CONSTRUCTION TO EXISTING REFER TO DRAWING CC-100 FOR PLAN DATUM R.L. 14 LEVEL LEVEL EXISTING LEVEL ^^^^^^ SITE SECTION (2) TO EXISTING TRANSGRID STANCHION LOW FLOW CHANNEL DATUM R.L. 15 ROCK LEVEL BULK LEVEL EXISTING LEVEL CHAINAGE SITE SECTION 9 FOR CONSTRUCTION CERTIFICATE SCALE 1:500 (H) SCALE 1:250 (V) Disclaimer and Copyright: **ULTIMATE BASIN SECTIONS** STAGE 3 Orion Consulting ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. SHEET 01 OF 02 SYDNEY BUSINESS PARK, USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. SCALE 1:500 (A1) THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE MARSDEN PARK sydney business park COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING B FM DH MP 02/02/2021 ISSUED FOR CONSTRUCTION CERTIFICATE 0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25 ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED A BT DH MP 09/12/2020 ISSUED FOR CONSTRUCTION CERTIFICATE

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Revision Description

SCALE 1:250 (A1)

**BULK EARTHWORKS DESIGN** 

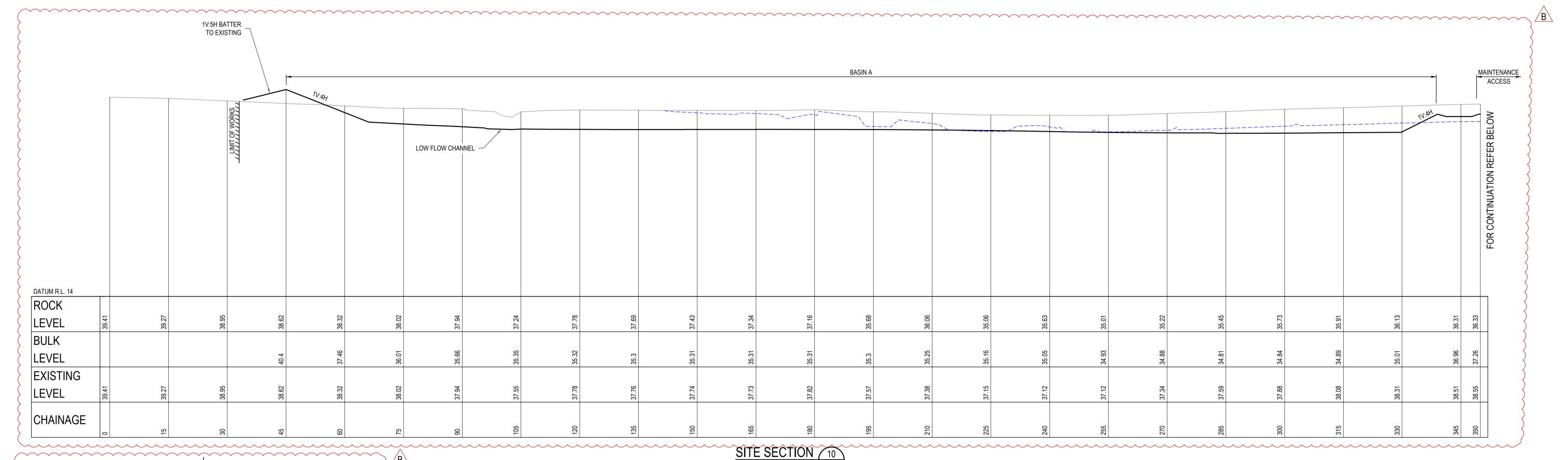
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

Project No. 20-0127

NOTE:

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LEGEND	)
BULK EARTHWORKS LEVEL	
APPROXIMATE ROCK SURFACE	
EXISTING SURFACE	
FUTURE SURFACE LEVEL	
SITE BOUNDARY	



SCALE 1:500 (H) SCALE 1:250 (V)

DATUM R.L. 16 ROCK LEVEL BULK LEVEL EXISTING LEVEL CHAINAGE SITE SECTION 10
SCALE 1:500 (H)
SCALE 1:250 (V)

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						1
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0	5	10	15	20	25	30	35	40	45	50
SC/	ALE 1:50	0 (A1)						SCALE	1:1000 (	(A3)
0	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25

Scale:







STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK BULK EARTHWORKS DESIGN **ULTIMATE BASIN SECTIONS** SHEET 02 OF 02

Project No. Set No. Milestone Plan	Revision	Set No. Milestone Plan	ct No. Set No.	Project No.
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