

DEWCAPE



DISTINCTION IN BUILDING

Construction Waste Management Plan

13 Pembury Road, Minto NSW 2566

Rev D – 28TH March 2017

DEWCAPE



DISTINCTION IN BUILDING

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1. EXECUTIVE SUMMARY

Purpose

This document forms part of the State Significant Development application SSD.7462.

This plan will seek to address the following:

- Waste Management for materials generated as a result of the works; and
- Impact Management during construction activities.

Scope

The scope of this document includes:

- Proposed in-ground weighbridge
- Proposed amenities block, site office and substation
- Proposed in-ground wheelwash at existing outbound weighbridge
- Relocate existing 30,000 litre fuel tank with roof over
- Proposed concrete slab for carparking (118sqm)
- 10 carparking spaces

Outcomes

The outcomes of implementing the initiatives as detailed in this plan will be as follows:

- Removal and disposal of wastes in compliance with Protection of the Environment Operations Act 1997, and the Waste Avoidance and Resource Recovery Act 2001;
- Maximise material recycling and reduce contribution to landfills;
- Successful management of the risks/impacts as identified resulting in zero (0) incident, non-conformance, complaint, and infringement;
- Successful delivery of the finished project through the implementation of effective and commercially viable measures; and
- Effective communication with all stakeholders (client, authority, public).

2. ROLE OF DEWCAPE

Dewcape designs, constructs and fits out retail, commercial, health, and residential developments. We hold enviable credentials with over 25 years of experience and a long-standing blue-chip client base of national and international market leaders.

Our distinctive portfolio of innovative, award-winning designs and multimillion-dollar projects ranges from original constructions to complex rollouts undertaken nationally and delivered with unfailing consistency. Our unusually comprehensive suite of in-house design, development and construction services together with outstanding project management capabilities extend beyond the capabilities of our competitors.

Dewcape has prepared this document, Construction Waste Management Plan (CWMP) for the purpose of the State Significant Development application SSD.7462. Dewcape has also been appointed as the Principal Contractor for the proposed works at No.13 Pembury Road Minto and is responsible for the development and implementation of the CWMP.

This CWMP has been developed in consultation with Skylife Properties Pty Ltd (Applicant) and conforms with the relevant legislation as stipulated in the Protection of the Environment Operations Act 1997 and the Waste Avoidance and Resource Recovery Act 2001;

Dewcape is an accredited company which conforms with ISO 14001:2004 for Environmental Management Systems. Dewcape is committed to reducing the impact of its activities on the environment and assisting our customers by encouraging them to use sustainable resources. Dewcape's Environmental Policy and Accreditation is attached in Appendix A for reference.

Dewcape's commitment to environmental consideration and preservation has been recognised by the Masters Builders Association for the works completed at the Bingo Recycling Facility in Auburn NSW. Dewcape received the Award for Excellence in Construction 2016 for Environmental Management in the category of \$10-\$50million. (<http://www.mbansw.asn.au/Excellence-Awards/EIC/2016/22/>)

3. OUTLINE OF PROPOSAL

SITE DETAILS

Site Address

13 Pembury Road Minto NSW 2566

Lot 1 DP1013852

Site Location



(Figure 1 - Location of the site 13 Pembury Road, Minto NSW 2566)

Existing buildings and other structures currently on the site:

- 3 x Concrete and metal clad shed; and
- 1 x weigh station.
- Fuel Tank with Roof over

BRIEF DESCRIPTION OF PROPOSAL OF WORKS

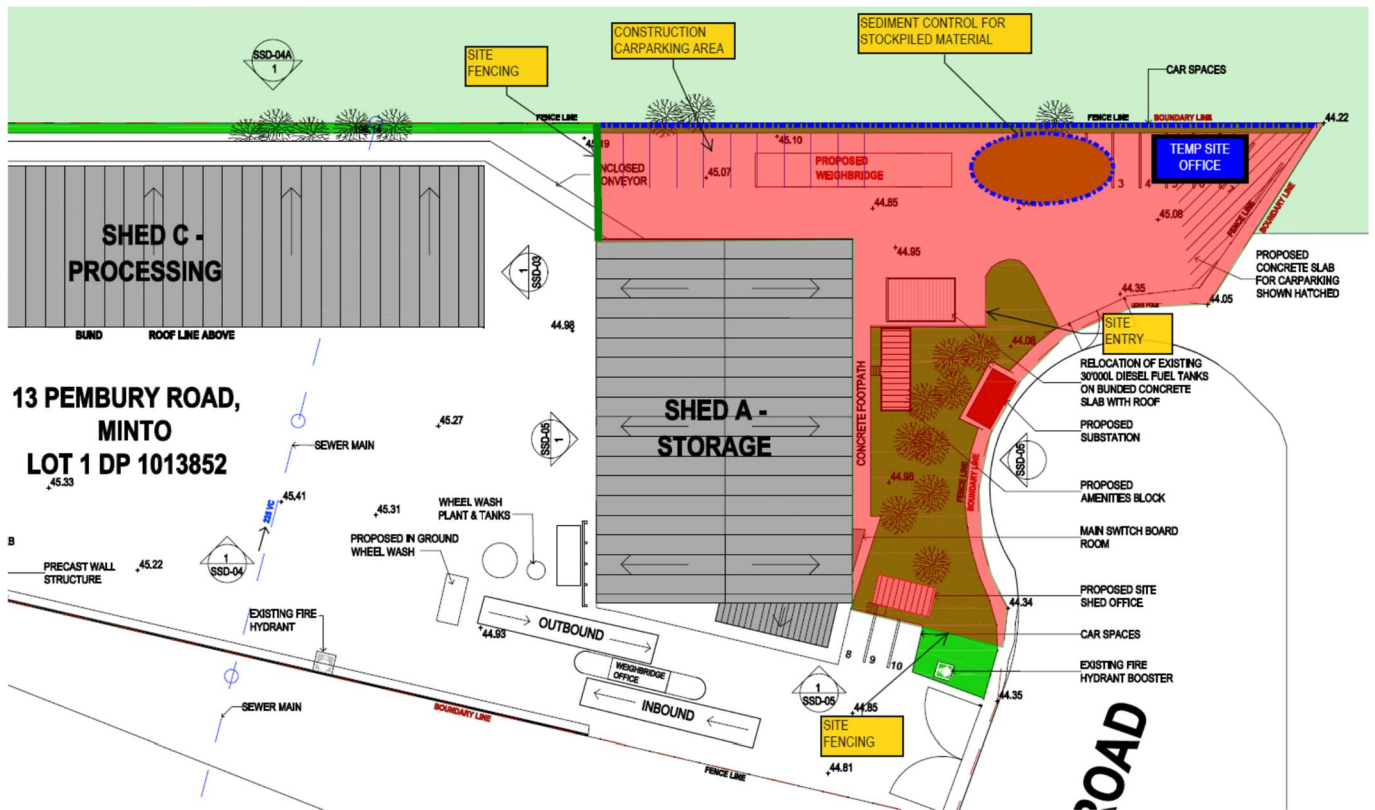
The proposed works located at 13 Pembury Road, Minto NSW 2566 (Lot 1 DP1013852), includes:

- Proposed in-ground weighbridge
- Proposed amenities block, site office and substation
- Proposed in-ground wheelwash at existing outbound weighbridge
- Relocate existing 30,000 litre fuel tank with roof over
- Proposed concrete slab for carparking (118sqm)
- 10 carparking spaces

CONSTRUCTION PROGRAMME

The proposed works will occur in a single stage. The total project onsite period is estimated to be approximately 6 weeks. The commence of the works is dependent on the SSD application approval.

SITE LAYOUT



(Figure 2 - Site Layout Plan (Attached to Appendix B).)

RISKS/IMPACTS

RISKS	IMPACTS	MEASURES
Material Generated	Contributing to landfill waste,	Addressed in Section 4
Pollution (noise, dust, fume, & storm water run-off)	Resident; Local business; and Waterways,	Addressed in Section 5

(Table 1 - Risk/Impact Register)

4. WASTE MANAGEMENT

DESIRED OUTCOME

The desired outcome of a successful waste management policy is as follows:

- Most of the material as generated from the works is recycled, reused, or repurposed;
- The net results will be the minimisation of the landfill contribution and less reliant on the consumption of new material; and
- Removal and disposal of wastes in compliance with Protection of the Environment Operations Act 1997, and the Waste Avoidance and Resource Recovery Act 2001.

WASTE MATERIAL CLASSIFICATION

The waste materials expected to be generated during construction of the proposed works can be classified as per the below and will be further addressed in this section:

- Building Material; and
- Excavated Soil;

Building Materials

The proposed works are expected to generate various types of material which includes:

- Concrete;
- Steel;
- Timber; AND
- Soil.

Excavated Soil

The works are expected to generate quantities of soil during the construction activities.

In the absence of a geotechnical report, the soil type has not been classified. The risk that the soil containing contaminated substances which may or may not cause harm to public health is unknown and therefore the process to identify such contaminants will form part of the procedure prior to the removal of the materials from the site.

A Contamination Investigation and soil classification report are to be undertaken by an EPA licensed contractor, and the disposal of any identified material will be in compliance with Protection of the Environment Operations Act 1997, and the Waste Avoidance and Resource Recovery Act 2001.

WASTE MINIMISATION AND DISPOSAL

All materials removed and disposed of the proposed site will be managed within the framework of ISO14001:2004, and in compliance with Protection of the Environment Operations Act 1997, and the Waste Avoidance and Resource Recovery Act 2001.

Record of disposal is required for all materials. This including but not limited to tip dockets and disposal reports. Records will be kept for 3 years to evidence the lawful disposal of waste.

To achieved the desired outcomes, the below strategies will be implemented:

1. Separation of Waste Materials

Where possible, before demolition, the nature of the materials is identified. Designated areas or bins need to be established to allow demolition materials to be separated and therefore reused or recycled. Concrete and bricks can be “sold” to a recycler for screening and crushing into a resalable

product. Steel can be stockpiled and sold for recycling;

2. Salvageable Materials

Windows, doors and other building structures which are in good salvageable condition should be removed manually and provided to a resource recovery centre or recycler for use;

3. Environmental Culture

Construction waste minimisation requires early planning and establishment of "Waste minimisation Culture" by all participants in the Design, Construction, and End User process; and

4. Implementation of Strategies

The principal contractor must ensure that effective communication of the CWMP to direct staff and contractors during the construction stages. Implementation audit and regular inspections of the measures are required to ensure of CWMP have been maintained.

The waste management strategy has been developed from best practice models. Specific procedures have been prepared which will be followed by all staff to ensure works are undertaken in a safe and effective manner and compliance with the environmental requirements by authority and legislation. The key measures are listed in Section 6, but are also outlined below:

- Waste Materials generated on site are to be managed such that recycling is maximised and the volume of waste transported to landfill is minimised;
- Waste Recycling and disposal reports and records of disposed material will be kept to evidence the lawful management of waste;
- Waste tracking system (WTS) to ensure all the excavated waste fill is accounted for and relocated to its appropriate location;
- Internal waste is handling for managing the excavation, demolition, construction, separating, stockpiling, storage and transportation of waste materials;
- Off-site waste disposal for the transportation and disposal of waste material off site;
- Materials selected must be fit for use. The use of building materials that are fully recycled and include recycled material in their production will be maximised where practicable; and
- Imported clean fill to ensure only suitable fill is used.

Each procedure will address the objective, and provide actions to achieve the objectives, performance indicators, monitoring programs and potential corrective actions.

MATERIAL GENERATED

The following measures will form part of strategies when looking to save resources and minimise waste at the construction stage:

- Colour-coded or clearly labeled bins on-site rather than one size fits all;
- Designate location of on-site storage space for materials (for reuse) and containers for recycling and disposal; and
- Purchasing Policy – considering measures such as ordering the right quantities of materials and prefabrication of materials where possible;
- Minimising site disturbance, limiting unnecessary excavation;
- Careful source separation of off-cuts to facilitate re-use, re-sale or efficient recycling; and
- Co-ordination / sequencing of various trades

The following details are to be directed by the Principal Contractor (indicated on Section 3 site layout plan):

- Location of temporary storage space;
- Location of Waste Storage and recycling area(s), garbage and recycling room;
- Site office, Amenities shed, Lunch shed;
- Access for vehicles.

The allocated Waste Storage and Recycling Area can be flexible in size and layout to cater for future changes in use. The size can be calculated on the basis of estimated waste generation rates and proposed bin sizes.



MATERIALS ON-SITE		DESTINATION		
Type of Material	Estimated Quantity	RE-USE AND RECYCLING		DISPOSAL
		ON-SITE	OFF-SITE	Proposed contractor/ landfill site
Excavation material	50m ³ (non-contaminated)	Nil	Land Fill	TBC
	10m ³ (contaminated)	Nil	By Approved Waste Company	TBC
Concrete	20m ²	Crush concrete for temporary driveway	Concrete to Crushing / Recycling Company	Nil
Timber - hardwood / pine	Nil	Nil	Nil	Nil
Metal	50m ²	Nil	To Recycling Facilities	Nil

(Table 2 - Expected materials as generated from proposed works)

Note: Details of site area to be used for on-site separation, treatment and storage (including weather protection) are to be directed on site by the Principal Contractor.

5. ENVIRONMENTAL MANAGEMENT

This section identifies the potential environmental risks with the project and details effective risk management strategies which are to be adopted during the works. These include;

- Noise and Vibration Management
- Erosion, Sediment & Stormwater run-off management
- Transport management
- Dust/Air Quality control
- Dangerous Goods Management
- Waste Minimisation and Disposal

The performance of risk management measures is based on the number of complaints versus corrective action of complaints as recorded in the complaints register. Unless otherwise agreed upon by stakeholder parties (neighbour and client), complaints register is to be recorded and kept and managed by Dewcape.

NOISE AND VIBRATION MANAGEMENT

Objectives

To minimise the generation of noise and vibration from the construction activities occurring on site and its impact on other workers, surrounding residents, businesses and building structures.

Risk Identification

Potential risks associated with noise and vibrations are as follows:

- Construction noise affecting other workers or the general public on or near the site
- Construction noise affecting the surrounding residences and businesses.
- Excessive vibration from construction activities causing discomfort to nearby residents or businesses.
- Excessive vibration from construction activities causing damage to nearby buildings, structures and services.

Risk Management

Management actions are as follows:

- Working hours will be restricted to the hours stated in the contract. No work will occur on Sundays or Public Holidays without consultation and approval from the Principal Contractor.
- No noise generating plant or equipment shall be used outside of the Council DA approved working hours.
- All practical measures will be used to minimise noise and vibration from construction equipment.
- All plant and equipment will be operated in a proper and efficient manner.
- All complaints are to be detailed and recorded in the Complaints Register.
- Works must not be exposed to noise exceeding the national noise exposure standard. PPE to be used by all workers when working near noisy plant.
- Audiometric testing is required for workplace which generates noise for long periods of time. Audiometric tests to be conducted no less than 3 months of commencing operations and once every 2 years.
- An alternative methodology is to be considered if excessive noise or vibration is generated from construction activities.

Performance measures

- No complaints received from adjoining properties or statutory authorities.
- Environmental Management Checklist completed weekly.

- Non-Conformances are to be reported in compliance with Dewcape management system.

EROSION, SEDIMENT, AND STORMWATER RUNOFF MANAGEMENT

Objectives

To avoid erosion, contamination and sedimentation occurring as a result of the construction activities associated with the project.

To control the quality of stormwater leaving the construction site such that no unacceptable impact occurs to adjoining natural watercourses or storm water drains discharging into these waterways.

Risk Identification

Potential risks associated with Erosion, Sediment, and Stormwater Management are as follows:

- Sediment-laden water from the site potentially flowing into the storm water system and adjacent waterways
- Site cut off drains eroding and increasing run-off water sediment loads

Risk Management

Management actions are as follows:

- Erosion and sediment control devices will be constructed within the catchment area by the Principal Contractor before the commencement of any construction activities. These devices may include sediment basins, cut-off and diversion drains, silt fencing, etc. Such erosion and sediment control devices will be regularly maintained by the Principal Contractor.
- All major site drains are to remain unobstructed and adequately stabilised.
- All complaints are to be detailed and recorded in the Complaints Register
- A designated area for the stockpiling of the soil should be identified. Each stockpile should have appropriate sediment and erosion controls in place. If, after a period, the material is not required on-site, it may be sold for re-use.
- As per Appendix B: Site Plan, the temporary construction exit will be adequately covered with geotextile material (gravel) to ensure duct protection. Additionally, a regular road sweep will be conducted for some part of Hearne Street where will be used by construction vehicles.

Performance measures

- No complaints received from adjoining properties or from statutory authorities.
- Environmental Management Checklist completed weekly or after a rain event.

TRANSPORT MANAGEMENT

Objectives

- To minimise any potential conflict associated with site traffic, traffic routes and parking over the duration of the proposed construction and demolition works,
- To maintain the surrounding residents' amenity.

Risk Identification

The risks associated with Transport Management are as follows:

- Congestion of the site and local streets from delivery vehicles,
- Removal of bulk excavation material from site spilling from trucks and polluting roadways.

Risk Management

Management actions are as follows:

- Transport and deliveries to be properly co-ordinated by the site supervisor to avoid congestion.
- Construction vehicles to remain on-site access roads wherever possible.
- All unloading or loading of materials is to be carried out under the supervision of the Principal Contractor.
- All complaints are to be detailed and recorded in the Complaints Register

Performance Measures

- No complaints from council or others regarding private or public road conditions around the site.
- Environmental Management checklist to be completed weekly of after rain event.
- Non-Conformances are to be reported in compliance with Dewcape management system.

DUST/AIR QUALITY CONTROL

Objectives

- To ensure construction activities do not prejudice local air quality.
- To minimise the generation of dust in and around the project site and its impact on surrounding residents and businesses.
- To implement appropriate controls to suppress dust and other suspended particulates in accordance with the consent conditions and risk management requirements.

Risk Identification

The generation of dust, air emissions or odours from the site can create unsafe working conditions on site and result in environmental degradation. Given this, the following risks have been identified:

- Dust generated from construction activities affecting adjoining properties or public access.
- Dust generated on the construction site affecting site personnel or operations.

Risk Management

Management actions are as follows:

- Visual assessment of the site during construction activities.
- Appropriate dust suppression methods are to be used such as water spraying and vacuum cleaners. Methods are to be considered on the individual site requirements.
- All construction vehicles/equipment will be adequately maintained so they do not emit excessive visible exhaust emissions.
- Complaints are to be detailed and recorded in a Complaints Register.

Performance measures

- Achieve air quality monitoring targets.
- No odour or dust complaints received from adjoining operations, nearby residents or from Statutory Authorities.
- Environmental Management checklist completed weekly.
- Where monitoring is carried out ensure levels are within acceptable limits.
- Non-Conformances are to be reported in compliance with Dewcape management system.

DANGEROUS GOODS MANAGEMENT

Objectives

- To receive, store, use, handle and dispose of hazardous materials in a safe and environmentally responsible manner.
- To prevent any contamination of site work areas and adjoining property including aquatic ecosystems by chemicals used on the construction site.

Risk Identification

The risks associated with Transport Management are as follows:

- Exposure of site personnel to dangerous goods or hazardous substances.
- Exposure of the general public, which uses the existing surrounding facilities.
- Inappropriate disposal of hazardous substances – silicones.

Risk Management

Management actions are as follows:

- Hazardous substances to be stored in an approved designated area.
- Material Safety Data Sheets (MSDS) are to be kept on site for all chemicals and dangerous goods used in the workplace. Hazardous material and MSDS register are to be completed.
- Any contaminated materials will be removed from the site to the appropriate disposal facilities with relevant approvals/documentation.

Performance measures

- No chemical or hazardous materials stored outside designated site area.
- Non-Conformances to be reported in compliance with Dewcape management system.
- Environmental Management checklist completed daily.

WASTE MINIMISATION AND DISPOSAL

Objectives

The objectives of the Waste Management Plan are based on the hierarchy of avoidance/reduce, re-use, recycle, treat and dispose of as outlined in the National Waste Minimisation and Recycling Strategy. Best Practice should be adopted wherever possible, to achieve waste minimisation and reduction. Key areas that will be targeted in the Waste Management Plan are:

- To avoid, whenever possible, the generation of wastes
- Construction Materials
- Domestic Waste
- Wastewater
- Litter generation due to construction activities
- To reuse and recycle a minimum of 60% of all Hard Waste Material, and Soft Waste Material generated on the construction site, thus achieving up to 60% reduction/avoidance in waste to landfill.

Risk Management

Management actions are as follows:

- Waste Materials generated on site are to be managed such that recycling is maximised and the volume of waste transported to landfill is minimised;

- Waste Recycling and disposal reports and records of disposed material will be kept to evidence the lawful management of waste;
- Waste tracking system (WTS) to ensure all the excavated waste fill is accounted for and relocated to its appropriate location;
- Internal waste is handling for managing the excavation, demolition, construction, separating, stockpiling, storage and transportation of waste materials;
- Off-site waste disposal for the transportation and disposal of waste material off site;
- Materials selected must be fit for use. The use of building materials that are fully recycled and include recycled material in their production will be maximised where practicable;
- Imported clean fill to ensure only suitable fill is used.

Performance Measures

- The waste system (bins/signage/training) is in place prior to any major waste generation works.
- All waste transportation and disposal documentation to be maintained on-site and signed as received or disposed of by the appropriate contractor or waste receiving facility.

6. TRAFFIC MANAGEMENT

Traffic Routes

In reference to the map below, the red arrow indicates vehicle access route from site to offsite. Vehicle entering from Pembury Road and then access into the site.



(Figure 4 – Traffic Route)

Notwithstanding the above, a separate Traffic Control Plan (TCP) which relates to the management of traffic within the site and access into the site must be developed and implemented during the demolition and construction stage. The TCP however does not form part of the CWMP.

Peak Periods for Construction Vehicles

The periods where construction traffic will be at its highest are as per the below:

- Staff arrival to site: 6:30 am to 7:30 am;
- Delivery Trucks: 7:30 am to 10:30 am;
- The staff is leaving from the site: 3:30 pm to 4:30 pm.

Construction Working Hours

The typical working hours for construction as allowed by the council is:

- Monday to Friday: 7:00 am to 5:00 pm
- Saturday: 7:00am to 1:00pm
- Sunday: no work

Construction Workers

It is anticipated that the number of workers during the demolition and construction of the proposed development to be a range of 25-35 persons during construction period.

All personnel is encouraged to car pool to manage the constraint of limited parking, as well as the reduction traffic volume to the site.

During the peak construction period, up to 10 on-site parking spaces will be available for construction worker parking. This requirement will reduce as construction nears completion ,when the weighbridge will be installed. Carparking provision will reduce accordingly.

Construction worker inductions and briefings will reiterate the need to park in the designated car park rather than use kerb side parking in an effort to reduce and minimise disturbance to the surrounding industrial areas.

Construction Traffic Volume

Estimated construction traffic volumes (assume construction truck average net load is 5t and 1t for Internal services trades)

The below table shows the daily average for construction traffic is significantly lower than that of the existing traffic condition of the operating facility.

CONSTRUCTION PHASE	DUR. (DAYS)	WASTE TO BE PICKED UP TO OFFSITE (T)	CONSTRUCTION MATERIAL TO BE DROPPED OFF ONSITE (T)	APPROX. TRUCK MOVEMENTS (IN + OUT)		AVERAGE DAILY MOVEMENTS
				Trucks	Cars	
Construction Work	30 d	40t	100t	28	210	7.9

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DISTINCTION IN BUILDING

7. APPENDIX A: Dewcape Environmental Policy and Accreditation



REGISTRATION CERTIFICATE

This document certifies that the administration systems of

Dewcape Pty Ltd

Ground Floor, 135-153 New South Head Road, Edgecliff, NSW 2027, Australia

***have been assessed and approved by QAS International
to the following management systems, standards and guidelines:***

ISO 14001 : 2004

The approved administration systems apply to the following:

***Designs, Constructs and Fits Out Retail, Commercial,
Health and Residential Developments of Distinction***

Original Approval **11th March 2015**
Current Certificate **11th March 2017**
Certificate Expiry **11th March 2018**
Certificate Number **AEN1088**

Signed: Certification Officer

On behalf of QAS International

This certificate remains valid while the holder maintains their administration systems in accordance with the standards and guidelines stated above, which will be audited annually by QAS International. The holder is entitled to display the above registration mark for the duration of this certificate, which should be returned to QAS International upon reasonable request.
Issuing Office: QAS International, 20A Oxford Street, Malmesbury, Wiltshire SN16 9AX, UK



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8. Appendix B: Site Layout Plan



LEGEND:

LANDSCAPED AREA	
RM STORAGE AREA	
PROPOSED SUBSTATION	
PROPOSED BUILDINGS	

SITE AREA:	8927 m ²
SHED - A:	8037 m ²
SHED - B:	111837 m ²
SHED - C:	88179 m ²
SITE OFFICE:	1676 m ²
LUNCH ROOM:	3882 m ²
AMENITIES:	2382 m ²

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DISTINCTION IN BUILDINGS

General Notes

The builder shall check all dimensions and levels on site prior to construction. Notify any errors, discrepancies or omissions to the architect. Drawings shall not be used for construction purposes until issued for construction. Do not scale drawings. All boundaries and contours subject to survey.

Client: Syville Properties Pty Ltd

Project Name: MINTO SSD

Drawing Title: SITE PLAN

Scale: 1:200 @ A0 Date: 04/11/2016

Status: SSD Drawn By: BC

Project No.: Drawing Rev

M11004 SSD-00B11

