



**PRELIMINARY CONSTRUCTION  
MANAGEMENT PLAN AND  
CONSTRUCTION TRAFFIC  
MANAGEMENT PLAN**

**PYMBLE LADIES COLLEGE –  
MASTERPLAN PHASE 2**

PROJECT No. 6291

Grindley Construction Pty Ltd  
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PYMBLE NSW 2073

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Approved by:

A handwritten signature in black ink, appearing to read "Glen Davey", is written over a horizontal dotted line.

(Signature)

Glen Davey

Date: 10/08/12

Project Manager

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# 1. GENERAL SITE MANAGEMENT

## 1.1 Site Layout

The subject site is located in the Southern end of the Pymble Ladies College grounds, and consists of the staged construction of a New Aquatic & Fitness Centre, Sports Ground, Car Park, Dining Room and a Health Care & Wellbeing Centre. This construction will be carried out over 4 main stages. Stage 1, the New Aquatic & Fitness Centre, represents the bulk of the project value and is the largest of the stages. This site is accessible from Avon Rd through school gates at the South West corner of the grounds. For the Stage 1 site layout please refer to the attached Site Layout Plan 1. (Appendix 'A').

For all on site amenities we will use temporary buildings, these will be located within the site boundaries at all times. The location & number of the site amenities are also shown on the above Layout Plans.

## 1.2 Site Description

The subject site is located on Avon Rd, Pymble.

The site is surrounded by Avondale Golf Course to the South, the railway line to the North, and housing to the East & West.

Stage 1 of the works requires the demolition of the existing pools and surrounding structures, then the subsequent construction of the New Aquatic & Fitness Centre, upgrades to the adjacent existing Jeanette Buckham PE Centre, Service Path provision, relocation of the Mollie Dive field and general landscape and pavement works to the surrounding areas.

Stage 2 involves the construction of a carpark with the relocation of Mollie Dive field suspended above, as well as a new inter-connecting Terrace & Piazza.

Stage 3 encompasses a new Dining Facility, landscape & pavement works, as well as upgrades to adjacent boarding courtyards & service access ways.

Stage 4 is the construction of the New Health Care Facility to the South Eastern corner of the site.

## 1.3 Construction Hours

The hours of construction activity will be as per the Development Approval, which are generally as follows:

7:00am to 5:00pm                      Monday to Friday

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8:00am to 12:00pm                      Saturday

No work                                      Sunday and public holidays

## 1.4 Hoardings & Protection

### 1.4.1 Site Boundaries

Fencing around the site would predominantly be 1800mm high chainwire mesh fencing fixed to posts firmly fixed into the ground. Some fencing in access & storage areas would be 1800mm high temporary fencing panels fixed into concrete blocks, to allow movement & flexibility as required.

Fencing will be relocated to enclose the various stages of works.

All fencing around the staged sites will be covered with Green shade cloth to reduce dust leaving the site, and screen the site from the children.

### 1.4.2 Scaffolding

Scaffold will be utilised, mainly around the perimeter of each of the buildings. All scaffold will be wholly within the site fencing, and not accessible by the public or students. All scaffolding surrounding the buildings shall be externally lined with chainwire mesh and shade cloth to prevent dust and objects leaving the building areas.

All scaffolding used on this project will be erected and maintained in accordance with all relevant codes and standards.

## 1.5 Communication

During the construction phase of the project it will be necessary to use a variety of communication forms both externally and internally. The site office will be equipped with a telephone, fax and computer connected to the internet via a high speed ADSL connection. A combination of these will be used for the formal communication throughout the project.

Internally the site will be equipped with hand held UHF radios pre set to private channels for on site communication assisting with all aspects of the construction process as well as acting as communications during an emergency.

## 1.6 Materials Handling

### 1.6.1 Excavation

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During the excavation works, trucks will be loaded within the site boundaries and exit via Avon Rd. The trucks will pass over the construction vehicle exit. The Sediment Control Section of this report provides detail on the site sediment management plan.

Please also refer to the traffic management section of this report which provides details relating to access and egress routes for all excavation & construction traffic.

It is anticipated that most demolition and earthworks activities would be carried out during School Holiday periods, when there is no student attendance at the school.

### 1.6.2 Cranage

It is proposed that an electrically operated Tower Crane would be required for the first Stage. This crane would load & unload most deliveries during the construction of the main structure of the building. It is estimated that the crane would be on site for approximately 6 months.

An all terrain forklift would also be utilized after the Tower Crane was removed, and for some movement of material between the staged areas.

### 1.6.3 Standing Trucks & Deliveries

It is essential on this project that deliveries of materials are co-ordinated around the movements of school students, to ensure their safety. Most students are dropped off and picked up via the Northern gates on Avon Rd, between the hours of 7:30am – 9:00am in the mornings, and between 2:15pm – 3:45pm in the afternoons. Therefore, we are proposing to utilize the Southern entrance as much as possible, so that deliveries do not affect the school traffic and the welfare of the children is protected.

Any deliveries made would be escorted by a Grindley traffic controller, to ensure the safety of the children.

Unloading of all materials and equipment will be carried out from within the fenced site areas in the dedicated loading zone whenever possible. If any on-street standing is required, or unloading outside the site fence, all activities will be supervised at all times by qualified traffic controllers.

### 1.6.4 Machinery

An all terrain telescopic handler will be on site for part of the construction phase. This machine will be approx 2 – 5tonne capacity and will only be operated by qualified personnel. Various other types and sizes of machinery will also be on site throughout different phases of the project. These include, but are not limited to, excavators, backhoes, rollers, boom lifts, scissor lifts, cranes, forklifts, and concrete pumps.

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### 1.6.5 Materials Hoist

A materials hoist will not be used on this project.

## 1.7 Site Storage

Construction materials and waste containers for construction refuse will be stored within the site in an area not accessible to the public. The location for storage of the items will vary throughout construction due to changing site constraints. Dedicated storage areas will be established by way of the placement of lockable storage containers and installation of temporary fencing. No materials will be stored outside of the site boundary.

All stored material locations are to be co-ordinated by the site foreman.

## 1.8 Temporary Excavation Support

Nil temporary excavation supports have been identified as being required for the project. Temporary batter slopes will be accommodated within site boundaries. If during the course of excavation support is found to be required, the consulting structural engineer will be engaged to provide design and direction.

## 1.9 Tree Protection

All trees on site that are nominated as being retained are to be protected at all stages throughout construction. In order to achieve this temporary 1.8m high chainwire fences are to be constructed around each tree, or cluster of trees, and will encompass the primary root zones where practicable. Any works to be carried close to the trees nominated to be retained will be supervised by an experienced and qualified Arborist.

## 1.10 Waste Management

### 1.10.1 Construction Waste

Rubbish skips/bins will be used during the course of the Pymble Ladies College project for the collection of general construction waste and material packaging. Rubbish skips will be located at various positions around each stage depending on the phase of construction and accessibility.

All rubbish placed in skips will be removed from site by a waste collection company and taken to an approved and licensed waste disposal and recycling facility. At no time will rubbish skips/bins be stored on the footpath or roadway during the course of construction.

Dedicated building waste enclosures will be set up around the site if required to enclose building waste that cannot be immediately placed in rubbish skips. The

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enclosures will be constructed of star pickets and weed control mat or geotextile fabric. No waste enclosures will be set up outside of the site boundary.

All construction waste will be dealt with in accordance with Kuringai Council's requirements and conditions and all subcontractors working on the project will be encouraged to minimise construction waste and remove all appropriate materials from site for reuse/recycling.

For detailed waste management please refer to the attached Waste Management Plan.

#### **1.10.2 Demolition Waste**

All demolition waste will be the responsibility of the selected demolition subcontractor. Kuringai Council's requirements and conditions for demolition waste will be adhered to by the selected subcontractor. The subcontractor will also be responsible for providing evidence as to where the demolition waste was taken in the form of tip dockets from an EPA licensed waste disposal and or recycling facility as per the EPA's requirements for demolition waste.

#### **1.10.3 Excavated Materials**

Some excavated materials may be stored on site for backfilling. Topsoil may also be stockpiled on site for reuse during landscaping. All stored soils will be stockpiled in appropriate locations for each stage of the Pymble Ladies College project and managed so that the impact on the environment is minimised.

If stockpiling is required, stockpiles shall be stored at least 2 meters clear of drainage lines and easements, natural watercourse, footpath, kerb, road surface, and established trees. Stockpiles will have temporary silt fences in place around the stockpiles to create an enclosure and if necessary they will be covered with shade cloth or tarpaulin to retain the materials on the stock pile. The location of stock piles will be determined closer to construction.

#### **1.10.4 Green Waste**

If it is required to remove trees and other vegetation from the Pymble Ladies College site, the generated green waste will be recycled, wherever possible, as woodchips and mulch for reuse both on and off site.

#### **1.10.5 Perishable Waste**

Perishable wastes will be stored on site in appropriate receptacles with lids to minimise vermin attraction. All perishable waste will be disposed of in accordance with Kuringai Council's requirements.

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## 2. TRAFFIC MANAGEMENT

### 2.1 Documents

Please refer to the attached Construction Traffic Management Plan. (Appendix B), this Traffic Management and Control Plan, in conjunction with the Site Specific Management Plan, will be implemented for all phases of excavation and construction.

### 2.2 Construction Traffic Hours

The hours of construction traffic activity will be as per the Development Approval construction hours plus approximately half an hour, they are as follows:

6:30am to 5:30pm	Monday to Friday
7:30am to 12:30pm	Saturday
No work	Sunday and public holidays

Construction Traffic will also be avoided during peak pick up and drop off times for students, in the mornings and afternoons.

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### 3. PEDESTRIAN AND TRAFFIC CONTROL

#### 3.1 Heavy Vehicle Access Routes

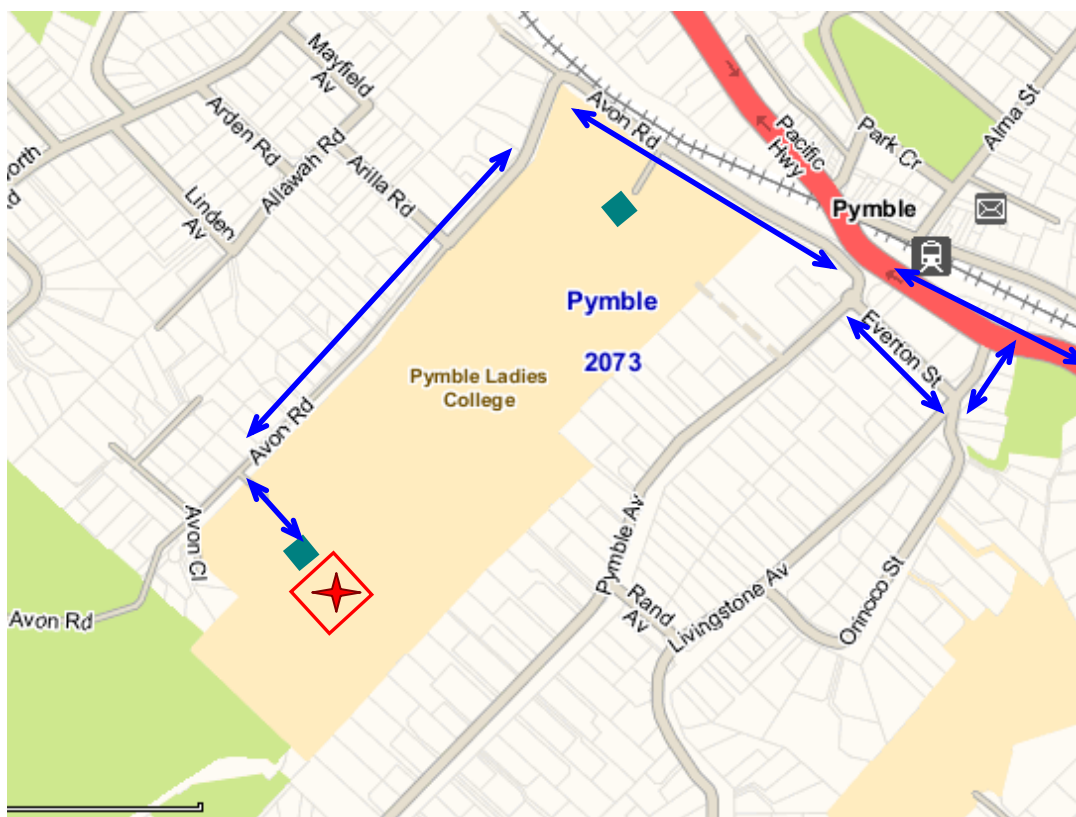
The attached Traffic Control Plan TCP01 details the heavy vehicle construction traffic access route. Vehicles entering and leaving the site will strictly adhere to this traffic route for the duration of the project.

##### 3.1.1 Primary Access Route for Heavy Vehicles

The primary access road for each area will be as follows;

- Senior School access is to be Avon Road, with all traffic entering through the Southern gate (Love Gate).

Approximate location of all gates and flow of traffic is shown on the diagram on the following page. All gates will be sign posted and at no times will heavy vehicles enter residential streets other than those nominated.



Map From: [www.whereis.com.au](http://www.whereis.com.au)

 - Site Location 
  - Heavy Vehicle Traffic Flow 
  - Gate Locations.

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## 3.2 Vehicle Access & Parking

### 3.2.1 Vehicle Access:

Vehicle access to each Site Area of the Pymble Ladies College Site is to be via the main gate located for that stage, as described for Heavy Vehicle access and egress. All access gates will be sign posted and all vehicles are to enter and leave the site in a forward direction where ever possible.

### 3.2.2 Vehicle Parking:

Construction workers vehicles are required by the school to park off site on Avon Rd near the Love Gate Entrance, in accordance with Kuringai Council's regulations and signage. At no time will vehicles be parked on the nature strip or in a manner that obstructs traffic flow or driveway access of surrounding residents.

Throughout all phases of construction workers will be encouraged to car pool and utilize public transport. Site personnel will continually monitor parking and ensure the disturbance to surrounding residents is minimal.

## 3.3 Pedestrian Management

As a safety provision for pedestrians, movement past site entries may be restricted during construction activities. Safety and directional signs will be provided during these periods.

The footpaths around the site will remain unobstructed at all times.


### 3.3.1 Access

Pedestrians and personnel to enter the sites will do so via the designated access gate for each stage, as described for Heavy Vehicle access and egress. Unauthorised entry to work site is prohibited, and signage will be in place to inform pedestrians of access restrictions and requirements. Directional signage will also be in place to direct all personnel and visitors to the site office.

### 3.3.2 Protection

Each Stage will be secured by temporary 1800mm chainwire boundary fence as indicated on plan TCP01. Shade cloth will be secured to the chainwire fencing for the entire duration of excavation and construction works.

During all phases of construction when vehicles are entering or exiting the site both traffic and pedestrian controls will be implemented to ensure safety. This will mainly be by way of signage and site personnel stopping and directing both traffic and pedestrians.

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### 3.4 Training

All site personnel will be inducted into the construction traffic management plan and accredited accordingly. All visitors must be in the company of an inducted person at all times whilst on site.

### 3.5 Monitoring

The project manager will report as required on the implementation of the Traffic Management Plan. The plan will be periodically updated to include:

- Access Points
- Location of parking areas
- Variations of traffic management plans
- Identifications of any safety or operational incidents and actions taken to address the conditions that caused the incidents.
- Monitoring complaints and corrective actions
- Details of signage on Internal & external roadways

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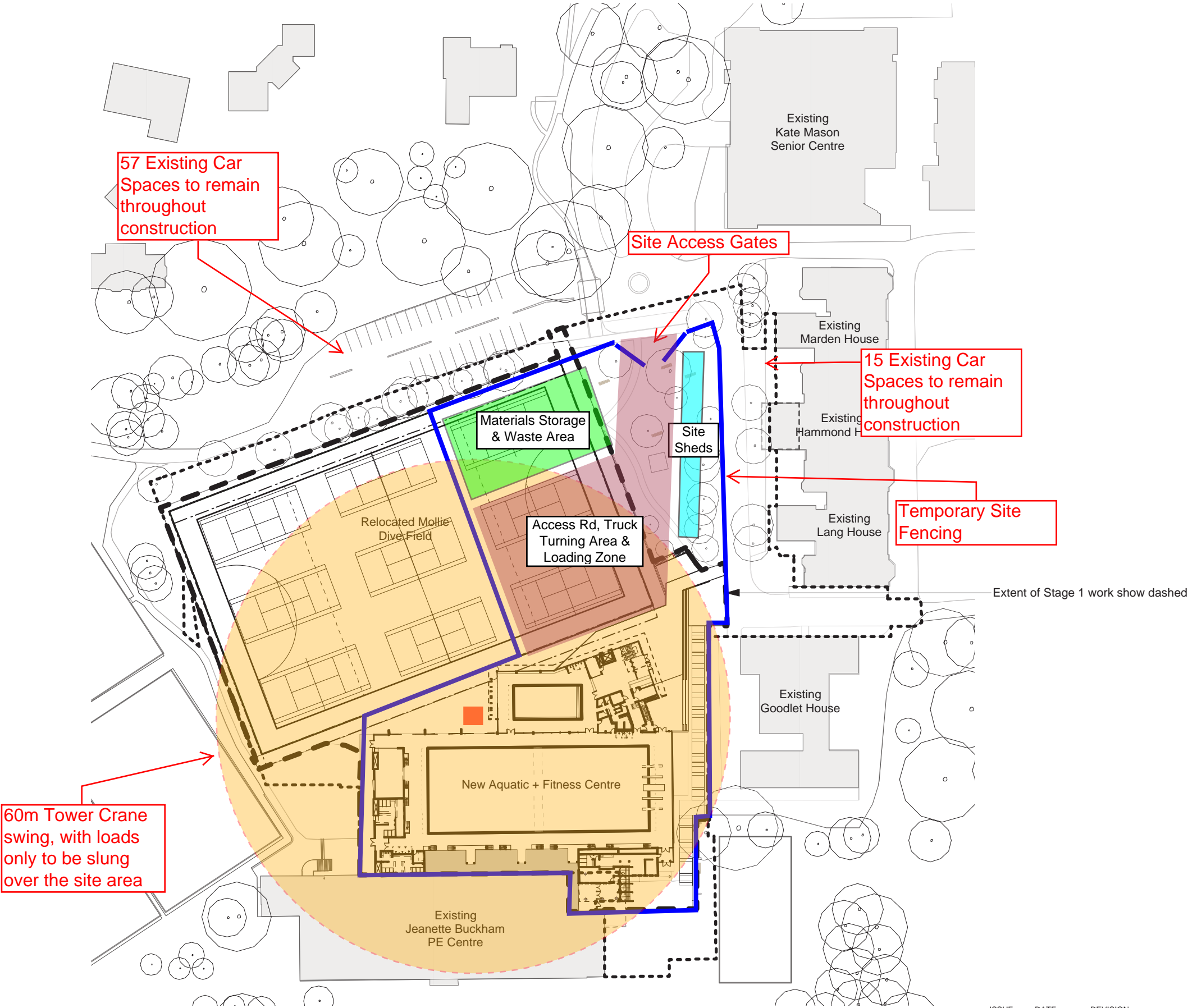
**4. APPENDIX A –****SITE LAYOUT PLAN – STAGE 1**

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PROPOSED STAGE 1 PLAN

- New Aquatic + Fitness Centre
- Relocate Mollie Dive Field west of existing location
- Services path provision
- Landscape and pavement works around Aquatic + Fitness Centre
- Upgrade existing Jeanette Buckham PE Centre



Legend

Extent of Overall works

Extent of stage works

01

STAGE 1  
PLC Masterplan  
Scale 1 : 1000

ISSUE	DATE	REVISION
0mm		50mm100mm

DO NOT SCALE FROM DRAWING. USE FIGURED DIMENSIONS ONLY.  
CHECK ALL DIMENSIONS ON SITE BEFORE MANUFACTURE OR CONSTRUCTION.



SITE LAYOUT PLAN - STAGE 1

pmdl

ARCHITECTURE  
INTERIORS  
MASTERPLANNING

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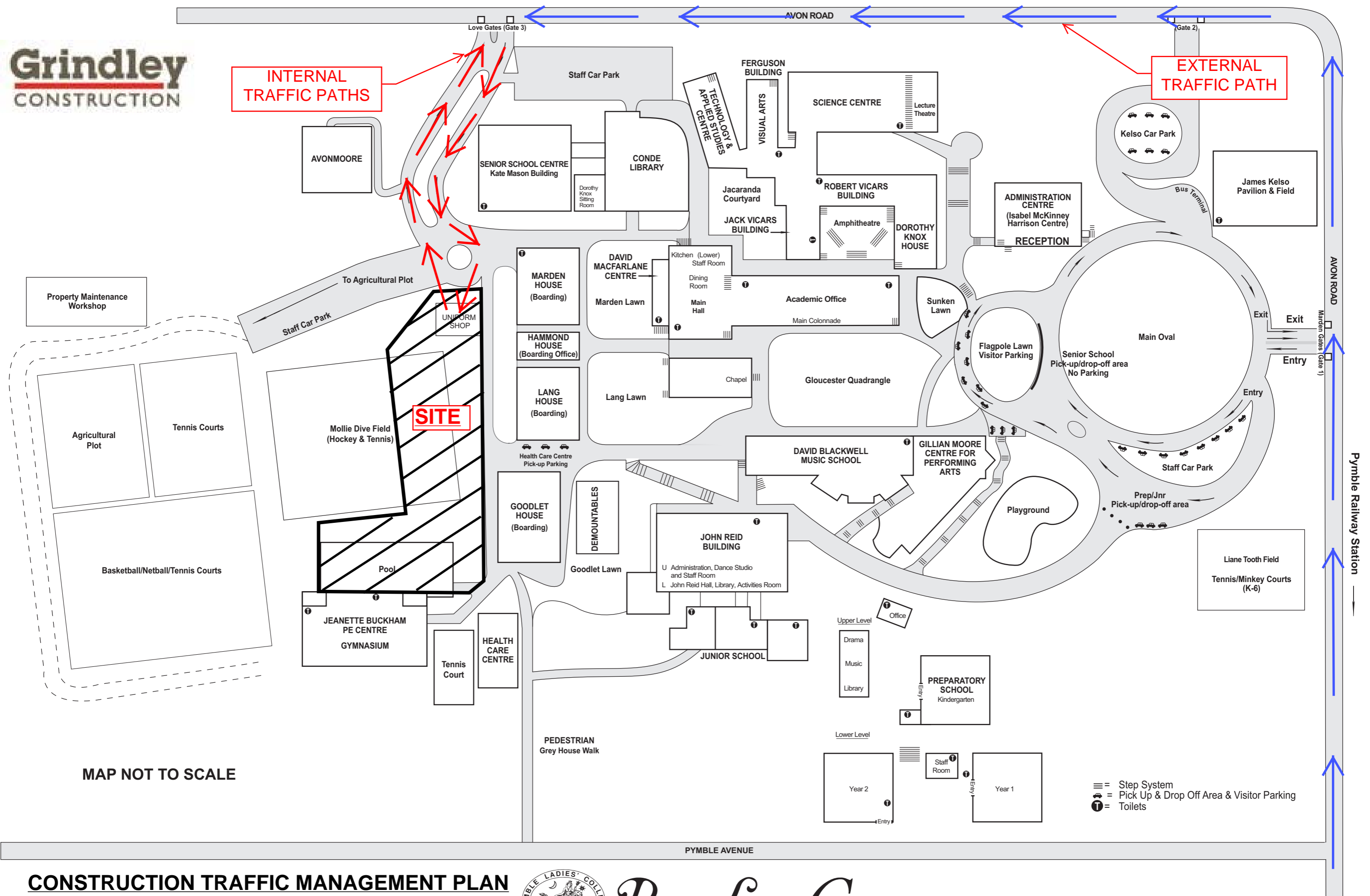
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PROJECT	PLC Masterplan Phase 2	PROJECT #	2126
CLIENT	Pymble Ladies' College	DWG #	
DWG	Overall Staging Plans		Stage 1
CLIENT REF & CONTACT	Avon Road, Pymble	DATE	July 2012
		SCALE	1:1000 @ A3
		DRAWN	SC
		CHKD	
		REVISION	

**5. APPENDIX B –****CONSTRUCTION TRAFFIC MANAGEMENT PLAN**

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**6. APPENDIX C –****WASTE MANAGEMENT PLAN**

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## Pymble Ladies College Waste Management Plan

FORM 401

Job Location: Pymble Ladies College

Job Number: TBA

Site Manager: TBA

Contact Number: TBA

Type of Waste	Contractor taking waste	Reuse <sup>*</sup> /Recycle <sup>**</sup> /landfill <sup>***</sup>	End location
General construction	Bingo	Recycle & Landfill	Bingo Recycling Facility 3 Burroway Rd Homebush Bay

If waste management changes from this plan at any time, you are required to submit an updated plan.

\*If waste is going to another site (spoil), attach soil test results and DA for end site

\* Waste reports to be obtained from waste contractor on a monthly basis and issued to environment manager

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<b>Project:</b>		Pymble Ladies College Waste Management			
<b>Project Objective:</b>		Increase amount of waste being recycled, reduce waste costs & landfill			
<b>Environmental Aspect:</b>		Solid waste			
<b>Environmental Impact:</b>		Landfill, depletion of natural resources			
<b>Legal and Other Requirements</b>		Waste Avoidance and Resource Recovery Act 2001			
<b>Aspect and Impacts Affected</b>					
<b>Current Performance:</b>		Refer to Landfill Monitoring spreadsheet			
<b>Target Performance Level:</b>		85%-90% solid waste recycled across all projects			
<b>ACTIONS REQUIRED</b>					
Action no.	Task	To be completed date or intervals	Action taken	Completed ?	Person Responsible
1	Environmental inspection checklist	Weekly			

2	Sorting of waste	Ongoing			
3	Re-using materials i.e. Timber, soil, etc	Ongoing			
4	Recycling materials i.e. steel, copper, bricks	Ongoing			
5	Using bin contractors with waste separation	Ongoing			
6	Monthly waste recycle reports from bin contractor	Monthly			