presentation overview

PHILLIPS/PILKINGTON ARCHITECTS

1 About Phillips/Pilkington Architects

2 What is a Master Plan?

3 Methodology
   Case Study: Secondary College

4 Master Plan Design Considerations
education experience  PHILLIPS/PILKINGTON ARCHITECTS
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<th>COMPLETION</th>
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<th>MULTIPLE USER GROUPS</th>
<th>ENVIRONMENTAL FOCUS</th>
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<th>AWARD WINNER</th>
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**education experience**  
**PHILLIPS/PILKINGTON ARCHITECTS**
master planning experience  PHILLIPS/PILKINGTON ARCHITECTS
<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LOCATION</th>
<th>COMPLETION</th>
<th>INDEPENDANT CHRISTIAN VALUE SCHOOL</th>
<th>EDUCATIONAL</th>
<th>MASTER PLAN</th>
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<td>Highgate, SA</td>
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**Value School**

- ● Indicate presence of value school

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**Master Planning Experience**

PHILLIPS/PILKINGTON ARCHITECTS
A Master Plan is a process by which the physical environment of the school is planned and reviewed.
project initiation

vision phase

information gathering phase

master planning phase

master plan methodology
Project initiation

1. Review of Strategic Plan
2. Development of a Vision
3. Review of existing Facilities
4. Consultation
5. Preparation of Draft Brief
6. Design Proposals
7. Indicative Costings/Estimates
8. Final Master Plan
### Project Initiation

**identify key goals and planning principles**
**define budget and scope**
**establish timeline**

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<tr>
<th>Task Name</th>
<th>Duration</th>
<th>Start</th>
<th>Finish</th>
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<td>7   - TEACHING AND LEARNING</td>
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<td>8   - FACILITIES ASSESSMENT</td>
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<td>12  - ADMIN AND PROPERTY STAFF</td>
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<td>13  - STUDENT BODY</td>
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**master plan methodology**

PHILLIPS/PILKINGTON ARCHITECTS
Project Initiation

assemble existing relevant documentation
e.g. Survey, Certificates of Title, Development Plan, Existing building plans
The Master Plan is being prepared to enhance the visual and physical environment of the buildings and grounds.

The Master Plan aims to develop a strategy for implementation of these improvements so that all expenditure on the physical fabric implements aspects of this vision.

The Master Plan aims to achieve a coherent and functional environment promoting a valuable life education experience in a safe community setting.
3 Review of Existing Facilities

Buildings

master plan methodology  PHILLIPS/PILKINGTON ARCHITECTS
# Review of Existing Facilities

## Buildings - internal spaces

### LEARNING BUILDING
The Consultant Team examined the following issues:

**ROOM NAME:** “ENTERPRISE SKILLS” ROOM (COMPUTER LAB) 116  
**FLOOR LEVEL:** GROUND

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating</th>
<th>Condition</th>
<th>Deficiencies</th>
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</table>
| External perimeter walls 4                                           | 3      | North – Solid masonry                                                   | **Exterior perimeter walls** 4  
|                                                                      |        | East – Solid masonry with sprayed fill above windows. Window sill at approx. 1000mm |
| External Windows                                                    | 4      | North – Aluminium fixed windows.                                          | **External Windows** 4  
|                                                                      |        | East – Aluminium sliding windows may be security issue as both locks have brass handle placed in track to disable sliding. |
| Window Furnishings                                                  | 3/4    | Vertical strip blinds in aluminium track. Good condition but unattractively (cream)     |
| Doors & Door Frames                                                  | 4      | North – Aluminium double fully glazed, school crest film decals to windows. | **Doors & Door Frames** 4  
|                                                                      |        | South – Glazed timber door. Lock is screwed into old aluminium partition frame – appears to have been redone several times – potential security issues. |
|                                                                      |        | Note - Leaves had blown in under or through north door onto carpet. Also no entrance matting. |
| Columns                                                             | N/A    |                                                                           | **Columns**  |
| Partitioning                                                        | 2      | South – Aluminium Glazed partition – partially removed but appears corroded in parts. | **Partitioning** 2  
|                                                                      |        | West – solid masonry wall adjacent to library, housed around column for services? Some exposed conduit, generally uneven. |
| Ceilings                                                            | 3/2    | Ceiling tile in suspended aluminium grid 800 x 400 |
| Light Fittings                                                      | 3      | Some halogen downlighters 2 x halogens/Par flumes? Must be full size and 2 x halogen to north above reception desk. | **Light Fittings** 3  
|                                                                      |        | Must also be fully contained. |
| Other existing services                                             |        | ESM sign (appears complimentary) Security sensor; WiFi; A/C registers – see mechanical | **Other existing services**  

*PHILLIPS/PILKINGTON ARCHITECTS*
3 Review of Existing Facilities

Buildings - internal spaces
3 Review of Existing Facilities

Landscape
- play equipment
- sports fields
- passive recreation
- pathways

Traffic
- parking - visitor and staff
- drop off/pick up
- delivery vehicles
- emergency vehicles
3 Review of Existing Facilities

Services

- electricity
- gas
- sewer
- stormwater
- AV/IT

W&G undertook a high level review of the School site’s opportunities for stormwater harvesting, which aims to develop an achievable set of strategies or options for water management within the school grounds.

Challenge of the constraints with working within an existing built up site.

Options that are considered suitable and could be implemented independently of each other include:

1) Integrating water efficient practices, devices and systems within buildings and irrigation systems,
2) Water wise plantings within the landscaping, water efficient design techniques for all future site building projects,
3) Install subsurface irrigation system beneath the sports field,
4) Redirect the drainage systems from the roof of the gymnasium towards a new underground tank.
3 Review of Existing Facilities

SITE ANALYSIS
MASTER PLAN
PHILLIPS/PILKINGTON ARCHITECTS PTY LTD
2 AUGUST 2013

INUNDATION SIZE
BOARDROOM
COURTYARD IS UNDER-UTILIZED
LACKS SHARED & AMENITIES
NOT CONNECTED TO TEACHING SPACES
TOILETS LACK AMENITIES
CENTRAL郵箱 & UNINTERESTING SPACES
CORRIDORS ARE LONG & INSTITUTIONAL IN FEEL ON BOTH STOREY
POSITIVE LANDSCAPE REDEVELOPMENT REQUIRED
MUSIC FACILITIES IN TRANSPORTABLES WORKING WELL BUT ARE NOT PURPOSE-BUILT
EXEMPLARY AREA
EXCELLENT FACILITY

ART CLASSROOMS ARE ISOLATED FROM OTHER TEACHING & LEARNING SPACES
SCIENCE LABS ARE ISOLATED, BIOLOGY IS ON THE Floor ABOVE
CREATING PLAYING FIELDS

SPREAD AREA

ARTICLES ARE DEDICATED TO THE STREET PRESENTATION
SPORTS SHED DEDICATED TO THE STREET PRESENTATION
Tennis/Netball Courts In Poor Condition & Underutilized
PEDESTRIAN & SERVICE VEHICLES COMPROMISE
ACOUSTIC PRIVACY ISSUES
CAR PARK DOES NOT ENHANCE PRESENTATION TO THE STREET

EXEMPLARY AREA

master plan methodology PHILLIPS/PILKINGTON ARCHITECTS
3 Review of Existing Facilities
4 Consultation

Workshops with Focus Groups

- academic staff
  - curriculum areas
  - pastoral care
- administrative staff
- grounds/property staff
- students
- parents
- old scholars

Action

1.0 General
   Art
   • Typically 12-20 students in Year 12 study Art.

2.0 Current Spaces
   Positives
   Art
   • Location of art rooms is great as it is nice & quite. Also being near the outside environment is a positive.
   Music
   • Very new, good size office & meeting spaces.
   • 5 studios & practice rooms are meeting the needs of now & the future.

   Challenges
   Art Room
   • A bigger art room would be good as in Yr 12 they permanently have easels setup.
   • Would like laptops & data projector to all Art rooms. Currently this provision is only to 1 art room.
   • Outdoor shelter over the deck would be great.
   • Kiln Room is currently in a shed, would be good to have a dedicated Kiln room.

   Music
   • A cover over the outside deck would be great as they would utilize the deck more.
   • The Music Computer Room only has 10 PC’s but would like at least 20 as class sizes usually around 24 students. The computer room has a dead space in the centre. They do not want laptops as there is an issue with sound cards.
   • Some PC’s have midi keyboards but they are dated (6-7 years old). There will be a need to purchase new ones so they are compatible with new software. Pull out keyboards an issue, too narrow.
   • Cable management issues in Music Computer Room.
## General Learning Areas

<table>
<thead>
<tr>
<th>Area</th>
<th>Existing</th>
<th>Desirable</th>
<th>Population</th>
<th>Services/Equipment</th>
<th>Location</th>
<th>Comments</th>
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<tbody>
<tr>
<td>General Learning Areas 7 - 12</td>
<td>18</td>
<td>22</td>
<td>35m²</td>
<td>Interactive Smart boards</td>
<td>Grouped as Middle and Senior with year levels colocated in proximity to year level Pastoral Care Co-ordinators. Home room for all year levels desirable. Existing classrooms in need of refurbishment. Flexible reconfigurable spaces. Breakout space desirable. Numbers equates to 4 classes from Y7 - Y10 and 3 classes from Y11 - Y12.</td>
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<tr>
<td>Geography Room</td>
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<td>1</td>
<td>60m²</td>
<td>25 per class</td>
<td>Store accessible without disrupting class</td>
<td>Dedicated space desirable with storage for resources and student work. Numbers counted in general learning spaces this does not need to be an additional classroom.</td>
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<td>1</td>
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<td></td>
<td></td>
<td>Consider Wet Area. Numbers counted in general learning spaces this does not need to be an additional classroom.</td>
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<td>1</td>
<td>15m²</td>
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<td>Consider Wet Area. Numbers counted in general learning spaces this does not need to be an additional classroom.</td>
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<td>LOTE Storeroom</td>
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<td>1</td>
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<td>LOTE store currently shared with maths.</td>
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<td><strong>TOTAL</strong></td>
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</table>

## Science

| Laboratories          | 3        | 4         | 95m²       | 25 per class       | Shared preparation | Ground floor desirable, grouped around preparation | 1 Physics, 1 Chem, 1 Biology, 1 General/Biology. Chem lab need fume cupboard. |
| Science Prep          | x        | 1         | 1          | 25 per class       | Fume cupboards, sinks, refrigeration |          |          |
| Science Store         | 1        | 1         |            |                    | Chemical store with venting and stored science cabinets for flammables, corrosives, oxidising and non vented cabinet poisons shelves for general store | Adjacent Chem Laboratory |          |
| Science Office        | 1        | 1         | 1          | 25 per class       |                    | Collocated with science. |          |
| **Sub Total**         |          |           |            |                    |                    |          |          |

## Art / Design Technology

| Art                   | 1        | 1         | 80m²       | 25 per class       | Science | Outdoor sculpture space desirable. | |
| Art Store             | 1        | 1         | 30m²       |                    | Adjacent Art | Further input needed. | |
| Design Technology     | 1        | 2         | 80m²       | 25 per class       | 1 Mac lab | Adjacent Art | |
| **Sub Total**         |          |           |            |                    |          |          |          |

## Performing Arts

| Drama Workshop        | 1        | 1         | 15d        | 25 per class       | Potential retractable seating, upgrade to lighting bars with supply of light. Quiet AC. Access to IT and digital projector. | Drama space is within main Auditorium. Problem with having to reorganise space with chairs left but after assembly. Desire to use outdoors but OH&S issues. Need to consider whether year 12 Drama will continue to be taught offsite and Drama going to expand from year 8 - only taught at year 8 currently. |
| Drama Store           | 1        | 1         | 15d        |                    | Adjacent Drama Workshop |          | |
| **Sub Total**         |          |           |            |                    |          |          |          |

## Gym

| Hall                  | 1        | Existing  | Seats up to 600 | No AC at present | AC desirable, seats full school of 600 | |
| Changing rooms/Toilets | 1        | Existing  |                |                  | Consider mezzanine gallery space. Consider upper level link to adjoining building | |
| Weights Room / Gymn   | 1        | Existing  | 50            |                  | Storage for 600 chairs, space not adequate, stage stored under stairs. | |
| **Sub Total**         |          |           |                |                  |          |          |          |

## Total

**13421** MARY MACKILLIP COLLEGE MASTER PLAN BRIEF DRAFT

**21 MAY 2013**

**Preparation of a Draft Brief**
6 Design Proposals
6 Design Proposals

master plan methodology  PHILLIPS/PILKINGTON ARCHITECTS
2248 - MASTER PLAN

ESTIMATE SUMMARY

Stage 1A
Tennis Courts 200,000
Construction Contingency (5%) 10,000
Stage 1A Estimated Current Construction Cost 210,000
Professional Fees (12%) 25,200
Stage 1A Estimated Current Project Cost 235,200

Stage 1B
Shelter 100,000
Construction Contingency (5%) 5,000
Stage 1B Estimated Current Construction Cost 105,000
Professional Fees (12%) 12,600
Stage 1B Estimated Current Project Cost 117,600

Stage 2
Ground Floor Home Ec (350m²) 700,000
Allowance for Siteworks 300,000
Construction Contingency (5%) 50,000
Stage 2 Estimated Current Construction Cost 1,050,000
Professional Fees (12%) 126,000
Allowance for Loose Furniture (5%) 52,500
Allowance for Kitchen Equipment 150,000
Stage 2 Estimated Current Project Cost 1,378,500

Stage 3
Ground Floor Year 7 Area (370m²) 518,000
Allowance for Minor Siteworks 50,000
Construction Contingency (5%) 28,400
Stage 3 Estimated Current Construction Cost 596,400
Professional Fees (12%) 71,568
Allowance for Loose Furniture (5%) 29,820
Stage 3 Estimated Current Project Cost 697,788

Stage 4
First Floor Year 11 & 12 Renovations (670m²) 938,000
Construction Contingency (5%) 46,900
Stage 4 Estimated Current Construction Cost 984,900
Professional Fees (12%) 118,188
Allowance for Loose Furniture (5%) 49,245
Stage 4 Estimated Current Project Cost 1,152,333

Stage 5
First Floor Year 11 & 12 Support (316m²) 440,000
Construction Contingency (5%) 22,000
Stage 5 Estimated Current Construction Cost 462,000
Professional Fees (12%) 55,440
Allowance for Loose Furniture (5%) 23,100
Stage 5 Estimated Current Project Cost 540,540

Stage 6
Ground Floor Café & First Floor Skills Centre (795m²) 1,510,000
Construction Contingency (5%) 83,000
Stage 6 Estimated Current Construction Cost 1,743,000
Professional Fees (12%) 209,160
Allowance for Loose Furniture (5%) 87,150
Allowance for Café Furniture 50,000
Stage 6 Estimated Current Project Cost 2,089,310

Stage 7
Library Renovations (368m²) 515,000
Construction Contingency (5%) 25,750
Stage 7 Estimated Current Construction Cost 540,750
Professional Fees (12%) 64,890
Allowance for Loose Furniture (5%) 27,038
Stage 7 Estimated Current Project Cost 632,678

Stage 8
Year 10 Renovations (402m²) 565,000
Construction Contingency (5%) 28,250
Stage 8 Estimated Current Construction Cost 593,250
Professional Fees (12%) 71,190
Allowance for Loose Furniture (5%) 29,663
Stage 8 Estimated Current Project Cost 694,103

Stage 9
New Two Storey Art/Science Facility (1395m²) 4,488,000
Construction Contingency (5%) 224,400
Stage 9 Estimated Current Construction Cost 5,132,400
Professional Fees (12%) 615,888
Allowance for Loose Furniture (5%) 256,620
Allowance for Special Equipment 100,000
Stage 9 Estimated Current Project Cost 6,104,908
Some Design Considerations...

School vision and values

Designing for school change
- year level and classes
- curriculum
- pedagogy
- community
- financial
- image
- vision
- technology

Pedagogy

Information & Communications Technology integration (ICT)

Architectural aspirations

Connection to the environment

Accessibility

Natural Light
Pedagogy

master plan design considerations

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Pedagogy

rectilinear table
- formal
- traditional
- boardroom

Square table
- communal

Circular table
- communal

Cluster table
- Dynamic
- interacts with circulation route
- informal

Types:
- Pedagogy
- master plan design considerations

PHILLIPS/PILKINGTON ARCHITECTS
Pedagogy

master plan design considerations

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Pedagogy

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Pedagogy
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master plan design considerations

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Pedagogy

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Pedagogy

master plan design considerations

PHILLIPS/PILKINGTON ARCHITECTS
Pedagogy

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ICT Integration

master plan design considerations

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Architectural Aspirations

supporting learning through experience, individual expression, strong relationships and peer to peer learning

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Connection with Community/History

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Connection with Environment

master plan design considerations

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Accessibility

master plan design considerations

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Natural Light

master plan design considerations  PHILLIPS/PILKINGTON ARCHITECTS