

<b>Contact Us</b>		<b>Office Use Only</b>									
The General Manager, 725 Pittwater Road, Dee Why NSW 2099 or Customer Service Centre, Northern Beaches Council DX9118 Dee Why											
Email	council@warringah.nsw.gov.au										
Fax	9942 2606										
If you need help lodging your application call Customer Service on (02) 9942 2111 or come in and talk to us at the Civic Centre, Dee Why.											


**Part 1: Declaration**

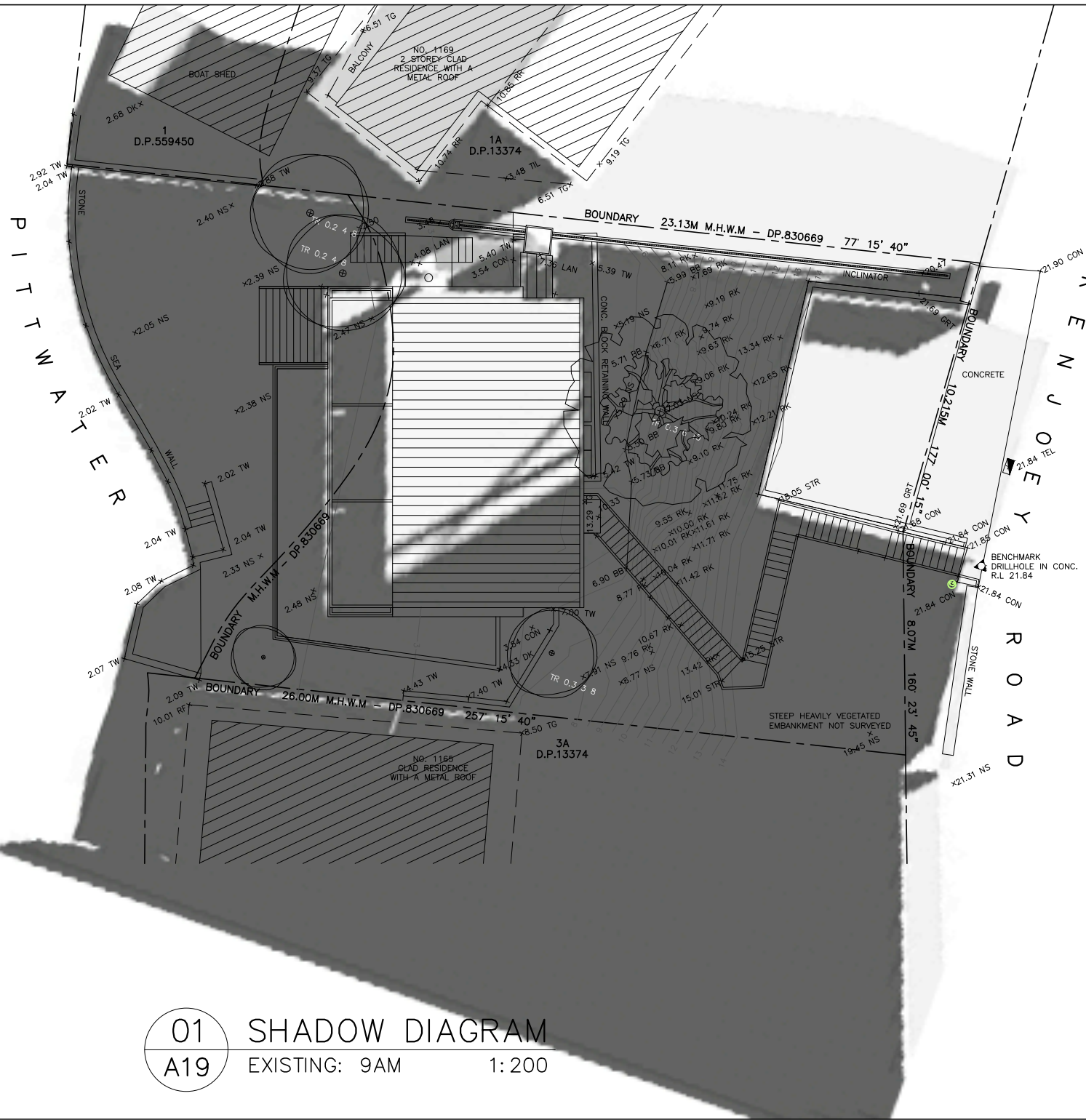
<b>1. DECLARATION</b>	
I hereby certify that the shadow diagrams submitted with the proposal at	
Address	1167 BARRENJOEY ROAD
	PALM BEACH, NSW 2108
For the erection of <i>Description of development</i>	PROPOSED ADDITIONS AND ALTERATIONS TO AN EXISTING SINGLE DWELLING AND
<ul style="list-style-type: none"> <li>In accordance with the survey (prepared by a registered surveyor) which is required to be submitted with the application</li> <li>Drawn to true north</li> <li>Indicate shadow cast by the proposal at 9am, noon, 3pm, 21 June</li> <li>To indicate the shadow cast by existing buildings and structures on the site and in the surrounding area</li> </ul>	

**Part 2: Certification**

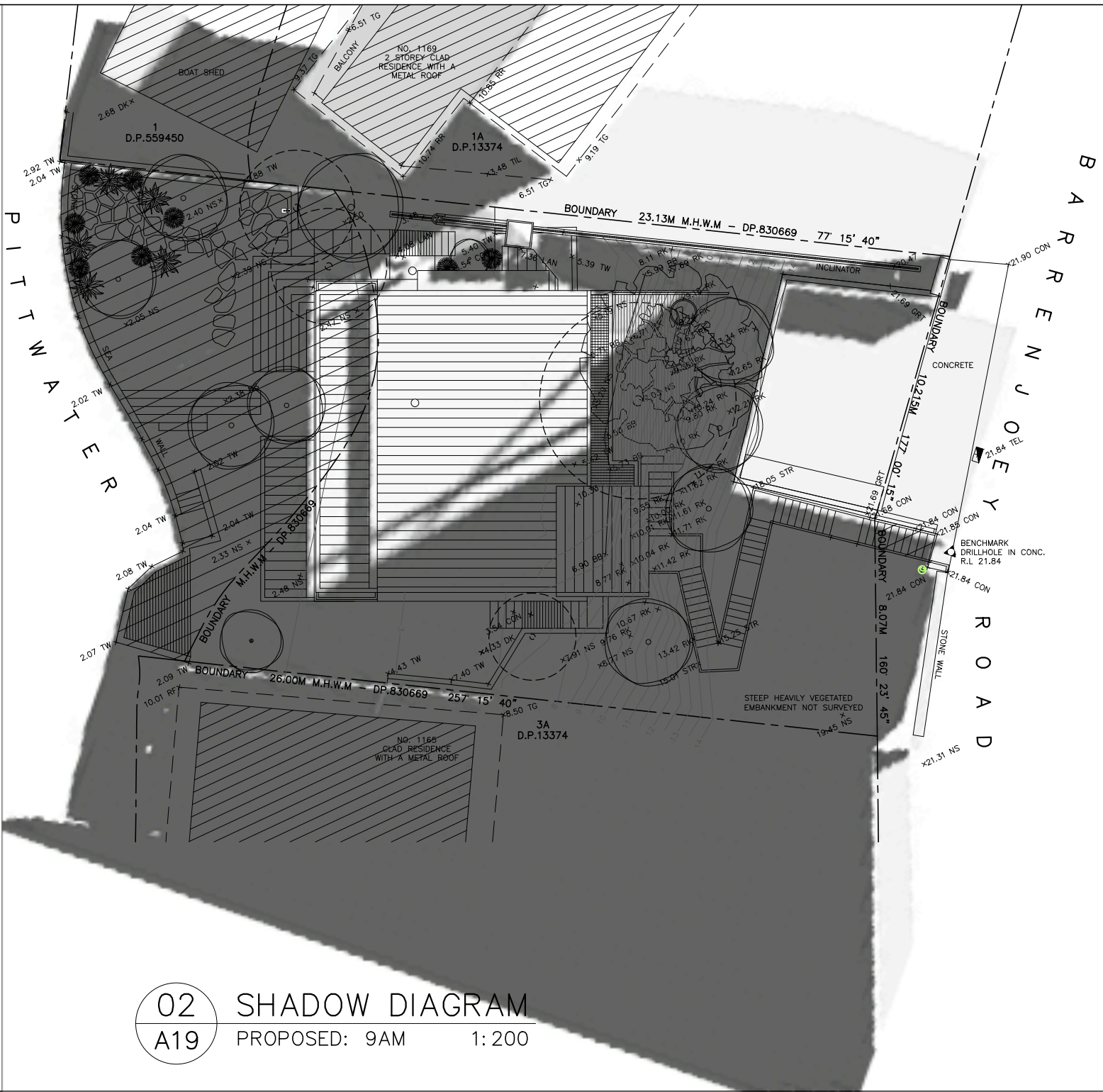
<b>2. CERTIFIER</b>			
Title	<input type="radio"/> Mr <input type="radio"/> Mrs <input type="radio"/> Ms <input type="radio"/> Other		
Full family name <i>(no initials) (or Company)</i>	JUSTIN LONG DESIGN		
Full given names <i>(no initials) (or A.C.N)</i>	JUSTIN LONG		
Phone		Alternate	
Mobile	0413 268 725	Fax	
Qualification <i>(i.e. Architect, Planner, Computer Technician, Surveyor)</i>	B.Arch		

**Part 3: Signature**

<b>3. APPLICANT(S) SIGNATURE</b>	
Signature	
Date	22 October 2018



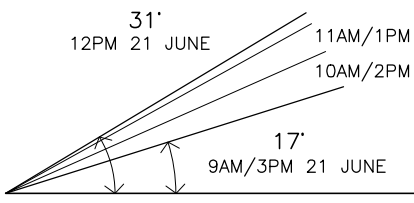
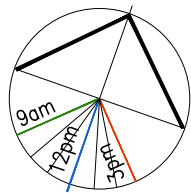
01 SHADOW DIAGRAM  
A19 EXISTING: 9AM 1:200



02 SHADOW DIAGRAM  
A19 PROPOSED: 9AM 1:200

WINTER SOLSTICE – 21ST JUNE		
9AM	12NOON	3PM
17 DEGREES NE	31 DEGREES N	17 DEGREES NW

SHADOW LENGTH CAST BY  
1M HIGH POLE:  
12NOON 20 JUNE – 1.66M  
9AM/3PM 20 JUNE – 3.27M



VERTICAL SUN ANGLES FOR SYDNEY  
LATITUDE 35 DEGREES SOUTH

1. MEASURE HORIZONTAL LENGTH OF SHADOW ON GROUND PLANE.  
2. PLACE THIS LENGTH ON SHADOW ALONG THE HORIZONTAL SUN ANGLE ON PROTRACTOR RELATIVE TO NORTH.  
3. MAKE ADJUSTMENTS TO HORIZONTAL ANGLES WITH RESPECT TO THE NORTH ALIGNMENT OF THE SITE.

HORIZONTAL SUN ANGLES FOR SYDNEY  
LATITUDE 35 DEGREES SOUTH

ANGLES ARE TAKEN FROM MAGNETIC NORTH

0 10M  
1:200@A3

1167 BARRENJOEY ROAD, PALM BEACH, NSW  
ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING  
FOR MICHAEL MILLS

Contractors Must verify all dimensions on site prior to starting any work or making any shop drawings.  
Figured dimensions are to be taken in preference to scale readings. This drawing is copyright and the property of Justin Long Design.

Architctural  
justin long  
design  
www.jladesign.com.au

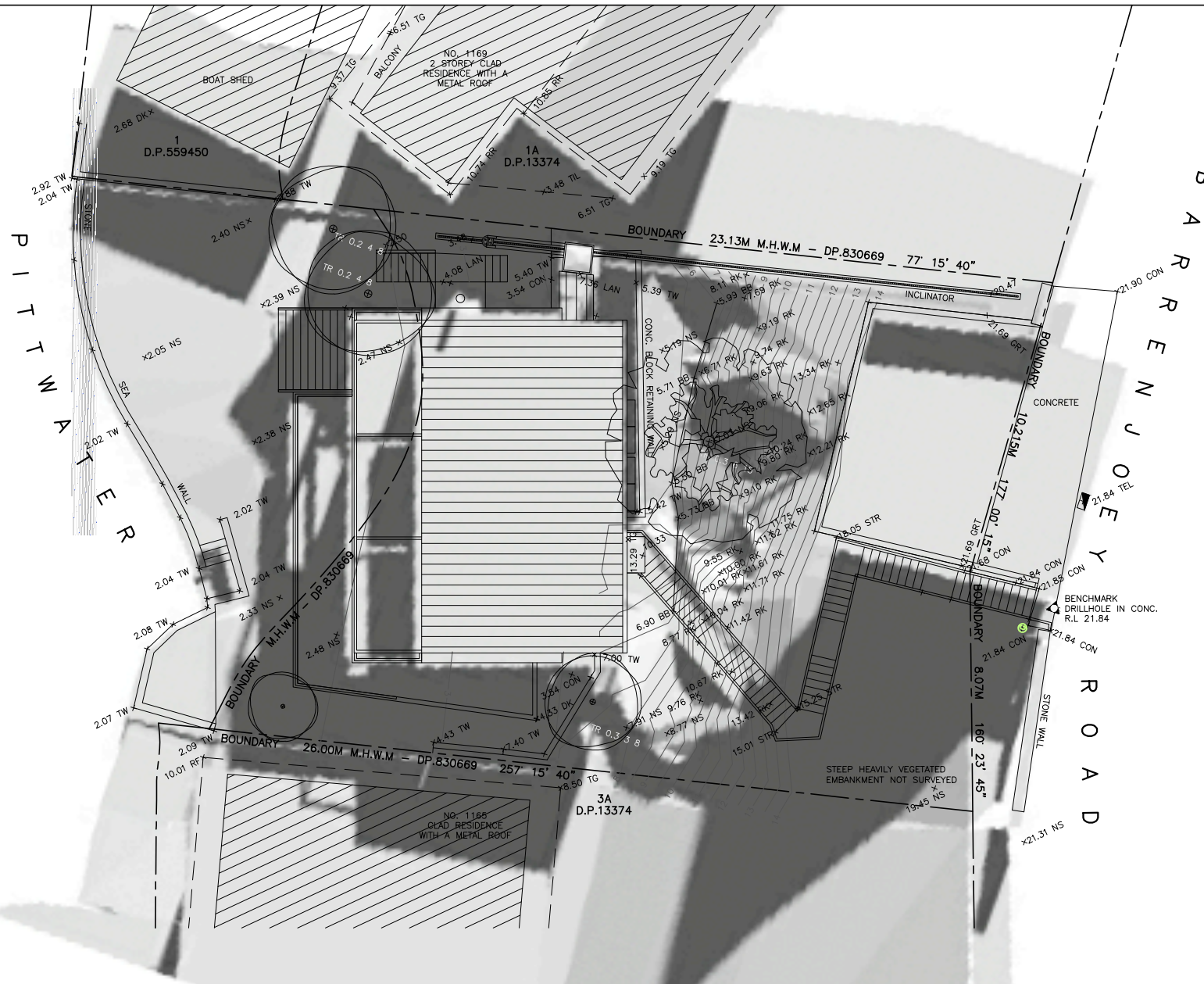
drawn	scale	date	issue	amend
TJ	1:200	19.09.18	DA	—

drawing	SHADOW DIAGRAM – WINTER SOLSTICE: 9AM
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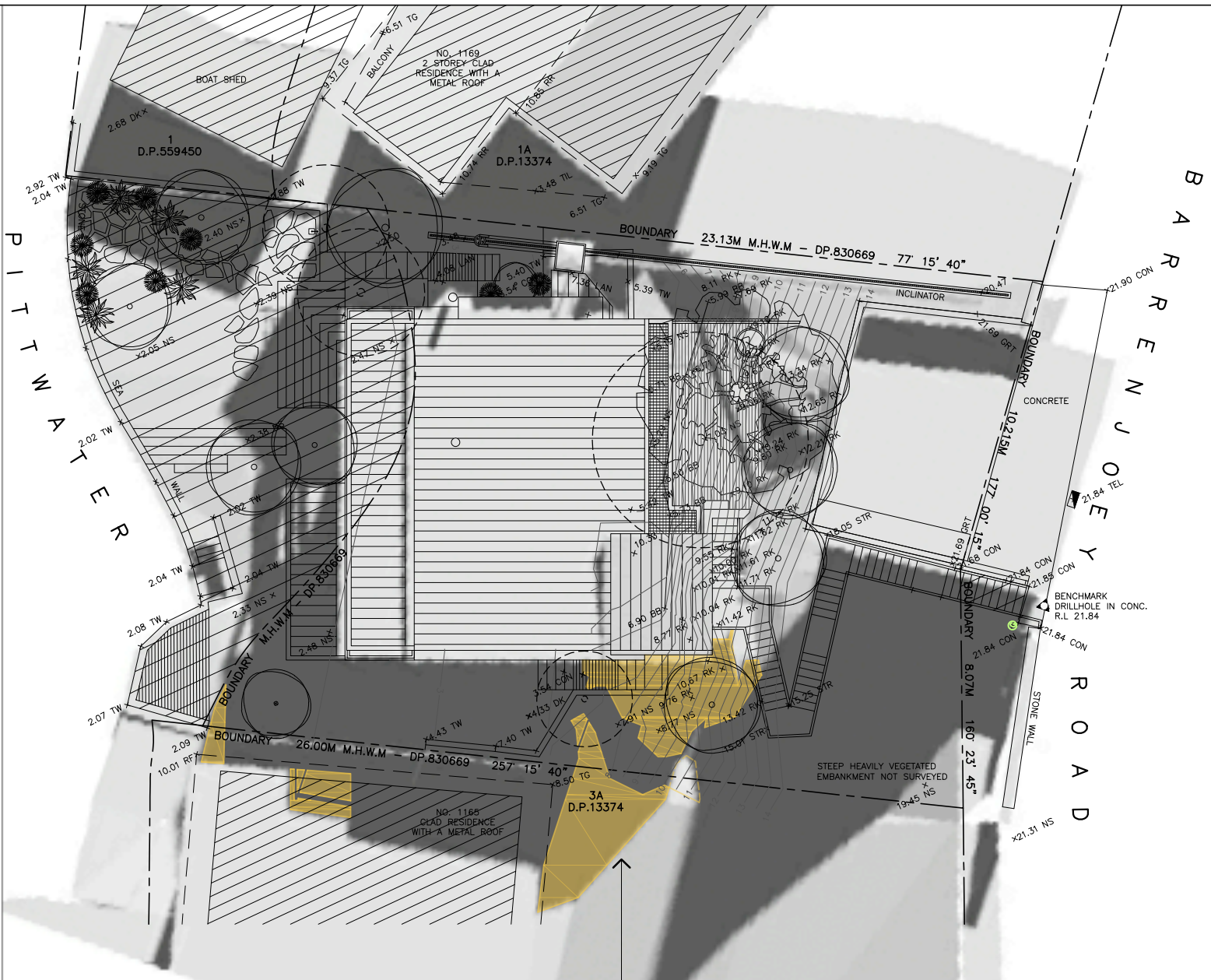
DA	—	DA ISSUE	24.10.18
issue	amendment		date

A19





01 SHADOW DIAGRAM  
A20 EXISTING: 12NOON 1:200

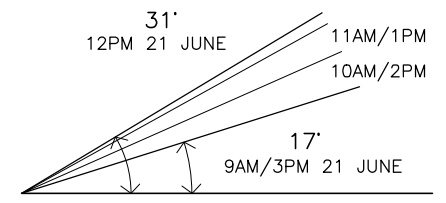
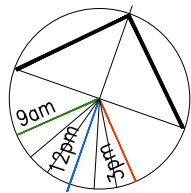


02 SHADOW DIAGRAM  
A20 PROPOSED: 12NOON 1:200

EXTENT OF ADDITIONAL OVERSHADOWING CAUSED BY THE PROPOSED ALTERATIONS & ADDITIONS TO 1167 BARRENJOEY ROAD SHOWN SHADED ORANGE

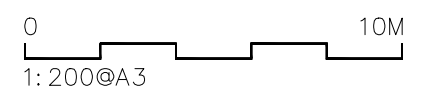
WINTER SOLSTICE – 21ST JUNE		
9AM	12NOON	3PM
17 DEGREES NE	31 DEGREES N	17 DEGREES NW

SHADOW LENGTH CAST BY  
1M HIGH POLE:  
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9AM/3PM 20 JUNE – 3.27M



**VERTICAL SUN ANGLES FOR SYDNEY  
LATITUDE 35 DEGREES SOUTH**  
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**HORIZONTAL SUN ANGLES FOR SYDNEY  
LATITUDE 35 DEGREES SOUTH**  
ANGLES ARE TAKEN FROM MAGNETIC NORTH



**1167 BARRENJOEY ROAD, PALM BEACH, NSW**  
ALTERATIONS AND ADDITIONS TO AN EXISTING DWELLING  
FOR MICHAEL MILLS  
Contractors Must verify all dimensions on site prior to starting any work or making any shop drawings.  
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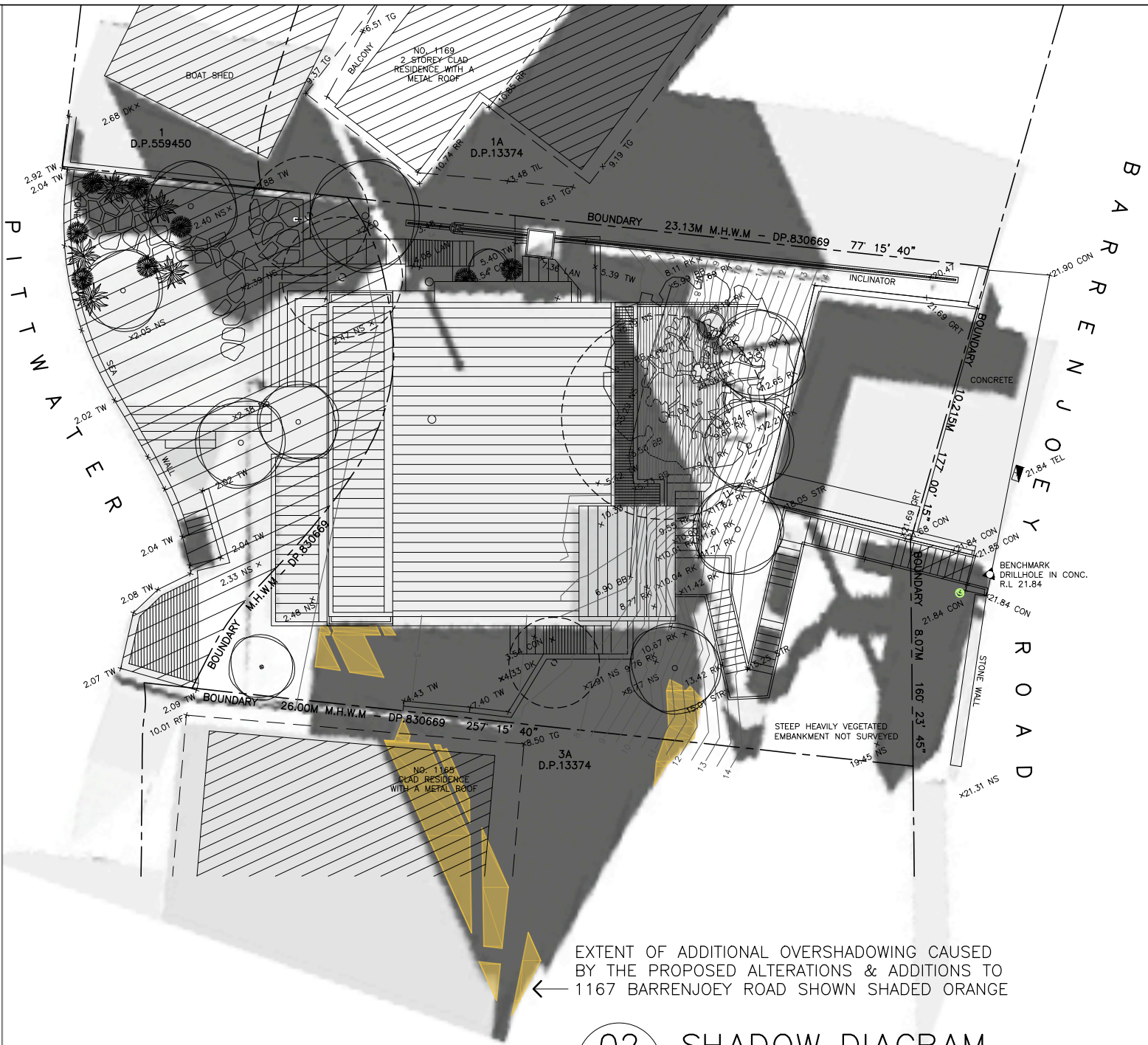
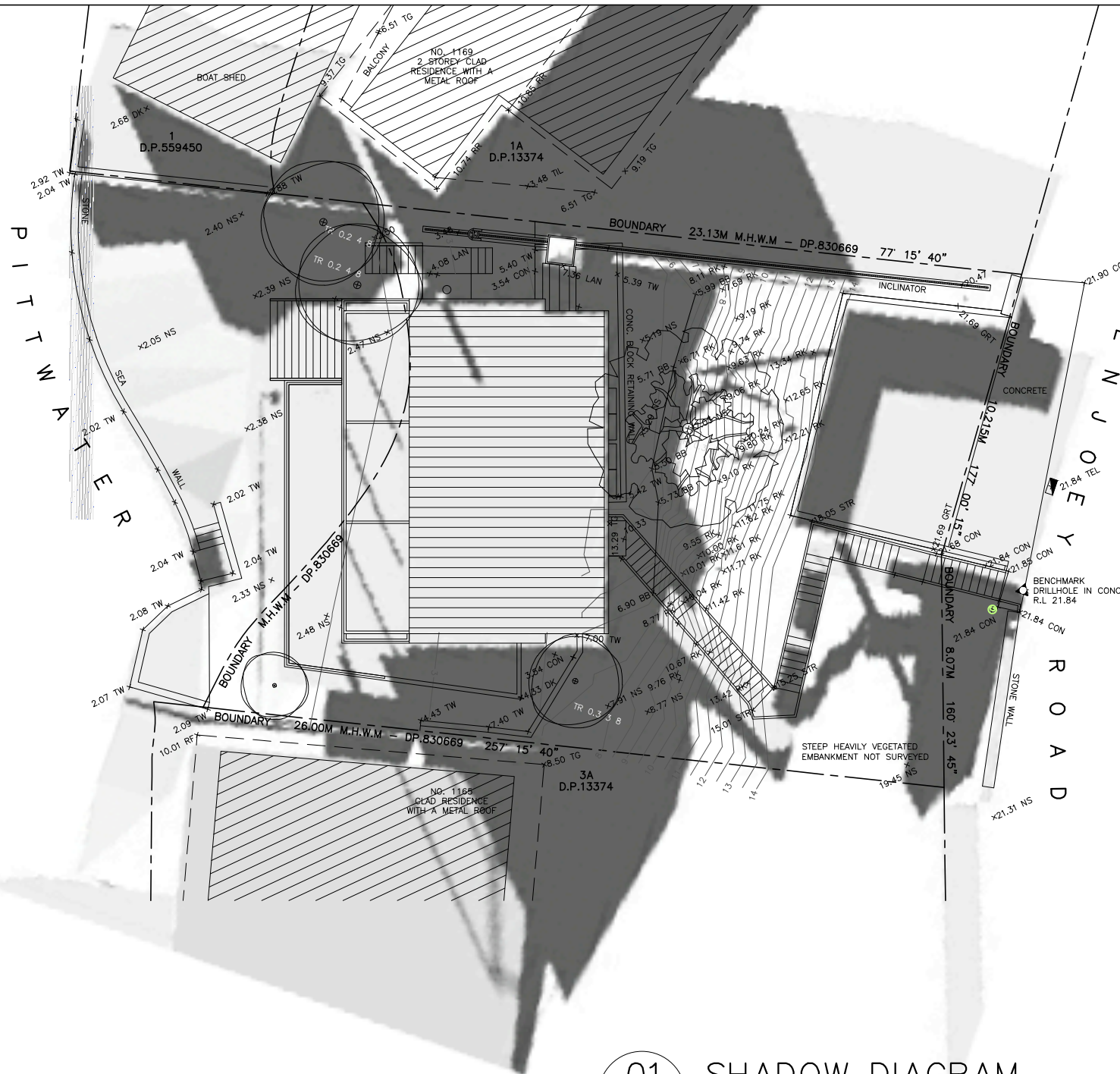
Architectural  
**Justin Long  
design**  
www.jladesign.com.au

drawn	scale	date	issue	amend
TJ	1:200	19.09.18	DA	—
drawing				
SHADOW DIAGRAM – WINTER SOLSTICE: 12NOON				

DA	—	DA ISSUE	24.10.18
issue	amendment		date

**A20**

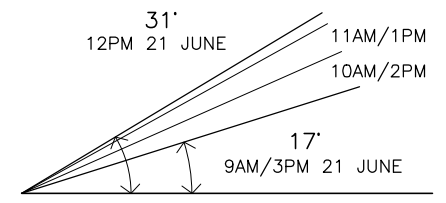
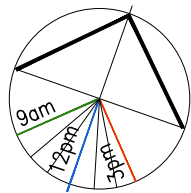




EXTENT OF ADDITIONAL OVERSHADOWING CAUSED BY THE PROPOSED ALTERATIONS & ADDITIONS TO 1167 BARRENJOEY ROAD SHOWN SHADED ORANGE

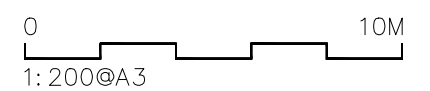
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SHADOW LENGTH CAST BY 1M HIGH POLE:  
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9AM/3PM 20 JUNE – 3.27M



- VERTICAL SUN ANGLES FOR SYDNEY**  
**LATITUDE 35 DEGREES SOUTH**
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**HORIZONTAL SUN ANGLES FOR SYDNEY**  
**LATITUDE 35 DEGREES SOUTH**  
ANGLES ARE TAKEN FROM MAGNETIC NORTH



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drawn	scale	date	issue	amend
TJ	1:200	19.09.18	DA	—
drawing				
SHADOW DIAGRAM – WINTER SOLSTICE: 3PM				

DA	—	DA ISSUE	24.10.18
issue	amendment		date

**A21**