

# PROPOSED DUAL OCCUPANCY DWELLINGS AT 3 VALLEYVIEW CRESCENT, WERRINGTON DOWNS

DRAWING LIST

A00.01 - COVER SHEET	A07 - SOUTH (FRONT) ELEVATION
A00.02 - BASIX REQUIREMENTS - DWELLING 1	A08 - NORTH ELEVATION
A00.03 - BASIX REQUIREMENTS - DWELLING 2	A09 - EAST ELEVATION
A01.01 - DEMOLITION PLAN	A10 - WEST ELEVATION
A01.02 - SITE PLAN, SITE ANALYSIS PLAN AND ROOF PLAN	A11 - SECTION 1
A01.03 - WASTE MANAGEMENT PLAN AND SEDIMENT CONTROL PLAN	A12 - SCHEDULE OF FINISHES
A01.04 - SITE CALCULATIONS	A20.1 - SHADOW DIAGRAM AT 21st JUN - 9am
A01.05 - LANDSCAPING PLAN	A20.2 - SHADOW DIAGRAM AT 21st JUN - 12pm
A02.01 - EXISTING GROUND FLOOR PALN - DWELLING 1	A20.3 - SHADOW DIAGRAM AT 21st JUN - 3pm
A02.02 - GROUND FLOOR DEMOLITION PALN - DWELLING 1	A20.4 - 3 HOURS OF SUNLIGHT TO LIVING ROOMS & POS - DW 1 & DW2
A03 - PROPOSED GROUND FLOOR PLAN - DWELLING 1	A21 - A4 NOTIFICATIONS
A04 - PROPOSED FIRST FLOOR PLAN - DWELLING 1	
A05 - PROPOSED GROUND FLOOR PLAN - DWELLING 2	
A06 - PROPOSED FIRST FLOOR PLAN - DWELLING 2	

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

REVISION
A

REV	DATE	DESCRIPTION	BY
A	28.08.2018	ISSUED FOR DA	AA

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NEMCODESIGN  
Pty. Ltd.  
STRUCTURAL ENGINEERING  
& ARCHITECTURAL DESIGN

A: SUITE 4, LEVEL 1,  
402-410 CHAPEL RD,  
BANKSTOWN, NSW 2200  
P: 1300 888 072 M: 0422 606 228  
E: abraham@nemcodesign.com.au

PROPOSED DUAL OCCUPANCY DWELLINGS	
3 VALLEYVIEW CRES, WERRINGTON DOWNS LOT 7051, DP 260932	
COVER SHEET	

JOB NUMBER: 18228	DWG NUMBER: A00.01	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	

## BASIX REQUIREMENTS - DWELLING 1

[illegible]

REVISION  
**A**

A	28.08.2018	ISSUED FOR DA	AA
REV	DATE	DESCRIPTION	REV

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Pty. Ltd.  
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**A: SUITE 4, LEVEL 1,  
402-410 CHAPEL RD,  
BANKSTOWN, NSW 2200  
P: 1300 868 072 M: 0422 606 228  
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### PROPOSED DUAL OCCUPANCY DWELLINGS

VIEW CRES, WERRINGTON DOWNS  
LOT 7051. DP 260932

## BASIX REQUIREMENTS

### DWELLING 1

JOB NUMBER  
182

DESIGNED BY  
A.N

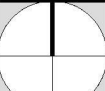
DRAWN BY:  
A.A

DWG NUMBER  
A00.0



DATE:  
19.06.2018

SCALE:  
AS SHOWN

ORIGINAL SIZE  
A3



## BASIX REQUIREMENTS - DWELLING 2

<div> <div>  <p><b>BASIX<sup>®</sup> Certificate</b> Building Sustainability Index <a href="http://www.basix.nsw.gov.au">www.basix.nsw.gov.au</a></p> </div> <div> <p><b>Single Dwelling</b></p> <p>Certificate number: 9571855_02</p> <p>This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 06/10/2017 published by the Department. This document is available at <a href="http://www.basix.nsw.gov.au">www.basix.nsw.gov.au</a>.</p> <p>Secondly, Date of issue: Thursday, 30 August 2018 To be valid, this certificate must be lodged within 3 months of the date of issue.</p> <div>  </div> </div> </div> <div> <table> <tr> <th colspan="4">Project summary</th></tr> <tr> <td>Project name</td><td>3 Valleyview Cres, Werrington Downs, 32</td><td></td><td></td></tr> <tr> <td>Street address</td><td>3 Valleyview Crescent Werrington Downs 2247</td><td></td><td></td></tr> <tr> <td>Local Government Area</td><td>Penrith City Council</td><td></td><td></td></tr> <tr> <td>Plan type and plan number</td><td>Deposited Plan 260902</td><td></td><td></td></tr> <tr> <td>Lot no.</td><td>7061</td><td></td><td></td></tr> <tr> <td>Section no.</td><td>-</td><td></td><td></td></tr> <tr> <td>Project type</td><td>separate dwelling house</td><td></td><td></td></tr> <tr> <td>No. of bedrooms</td><td>3</td><td></td><td></td></tr> <tr> <th colspan="4">Project score</th></tr> <tr> <td>Water</td><td>✓ 40</td><td>Target 40</td><td></td></tr> <tr> <td>Thermal Comfort</td><td>✓ Pass</td><td>Target Pass</td><td></td></tr> <tr> <td>Energy</td><td>✓ 50</td><td>Target 50</td><td></td></tr> </table>   <table> <tr> <th colspan="2">Certificate Prepared by</th></tr> <tr> <td>Name / Company Name:</td><td>Nemoz Design</td></tr> <tr> <td>ASN (if applicable):</td><td>4616019555</td></tr> </table> </div>	Project summary				Project name	3 Valleyview Cres, Werrington Downs, 32			Street address	3 Valleyview Crescent Werrington Downs 2247			Local Government Area	Penrith City Council			Plan type and plan number	Deposited Plan 260902			Lot no.	7061			Section no.	-			Project type	separate dwelling house			No. of bedrooms	3			Project score				Water	✓ 40	Target 40		Thermal Comfort	✓ Pass	Target Pass		Energy	✓ 50	Target 50		Certificate Prepared by		Name / Company Name:	Nemoz Design	ASN (if applicable):	4616019555	<table> <tr> <th colspan="4">Thermal Comfort Commitments</th></tr> <tr> <th></th><th>Show on DA plans</th><th>Show on CC/CDD plans &amp; 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REVISION  
**A**

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BANKSTOWN, NSW 2200  
P: 1300 868 072 M: 0422 606 228  
E: [abraham@nemcodesign.com.au](mailto:abraham@nemcodesign.com.au)**

**PROPOSED DUAL OCCUPANCY DWELLINGS**

**3 VALLEYVIEW CRES, WERRINGTON DOWNS**  
**LOT 7051, DP 260932**

## BASIX REQUIREMENTS DWELLING 2

JOB NUMBER:  
1822

DESIGNED BY:  
A.N

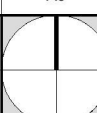
DRAWN BY:  
A.A

DWG NUMBER:  
A00.03

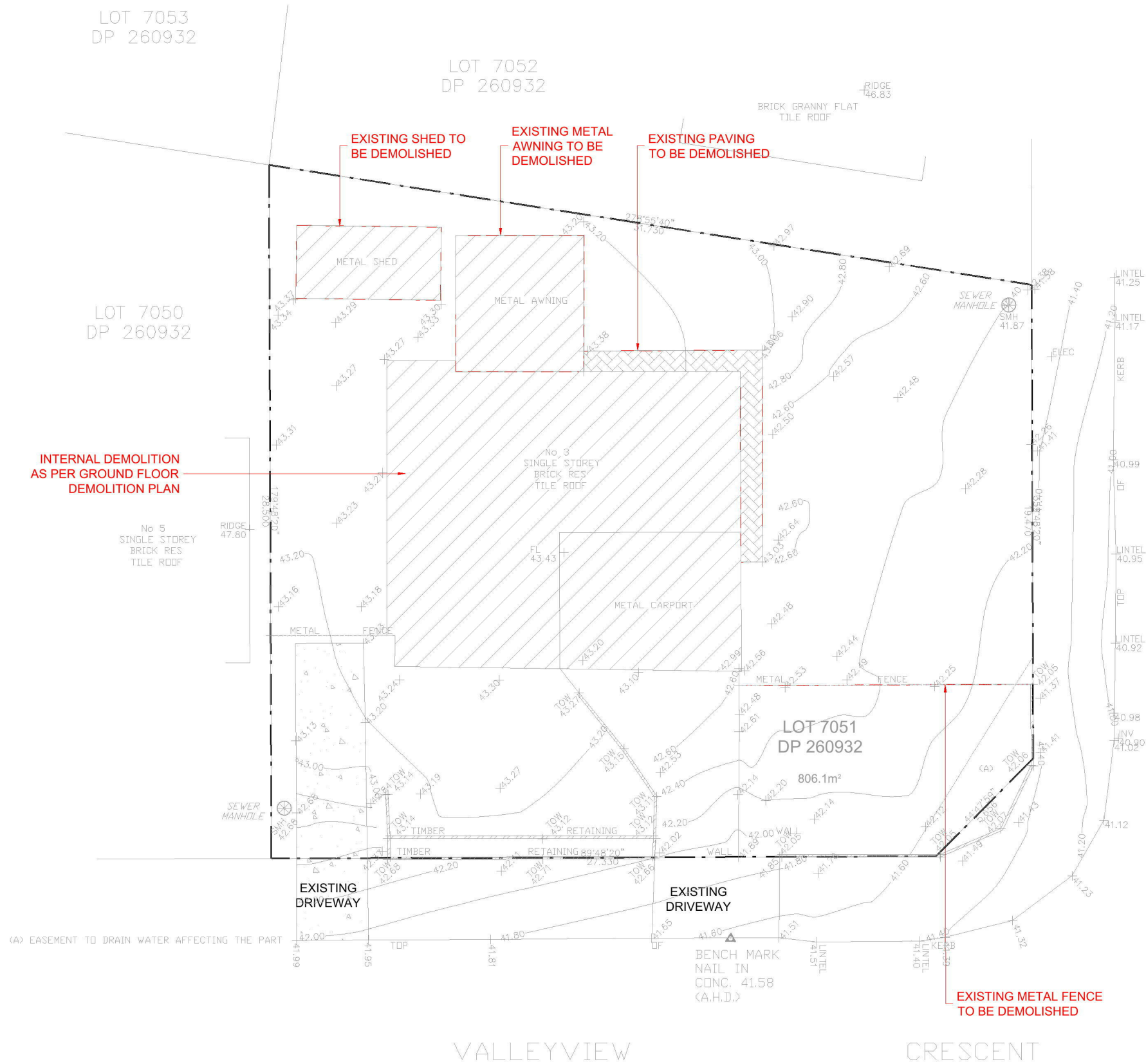
DATE:  
19.06.2018

SCALE:  
AS SHOWN

ORIGINAL SIZE:  
A3







DEMOLITION PLAN

1:200

- SITE BOUNDARY
- DEMOLISH

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

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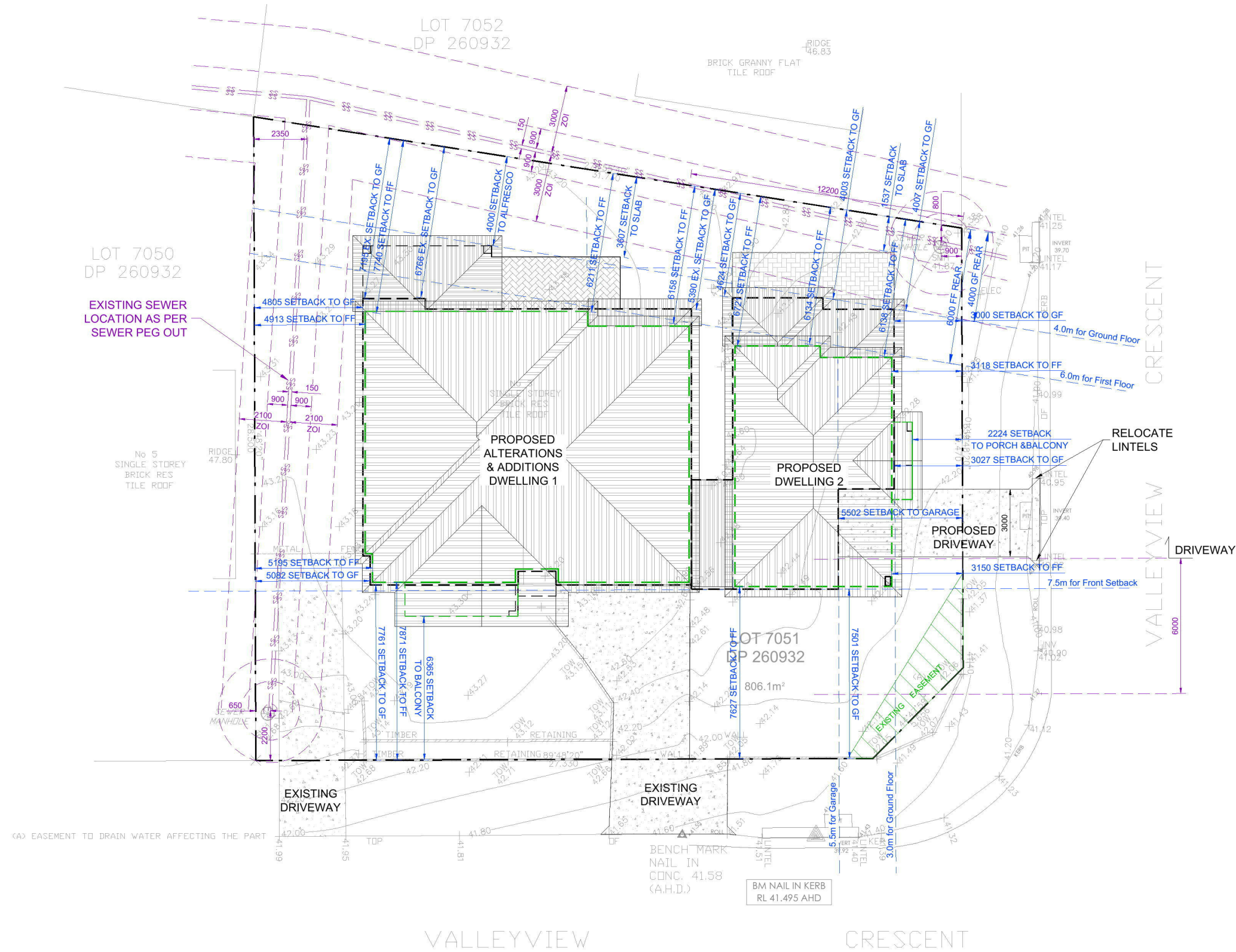
PROPOSED DUAL OCCUPANCY DWELLINGS

3 VALLEYVIEW CRES, WERRINGTON DOWNS  
LOT 7051, DP 260932

DEMOLITION PLAN

JOB NUMBER: 18228	DWG NUMBER: A01.01	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	





--- SITE BOUNDARY

## SITE PLAN, SITE ANALYSIS PLAN AND ROOF PLAN

1:200

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO  
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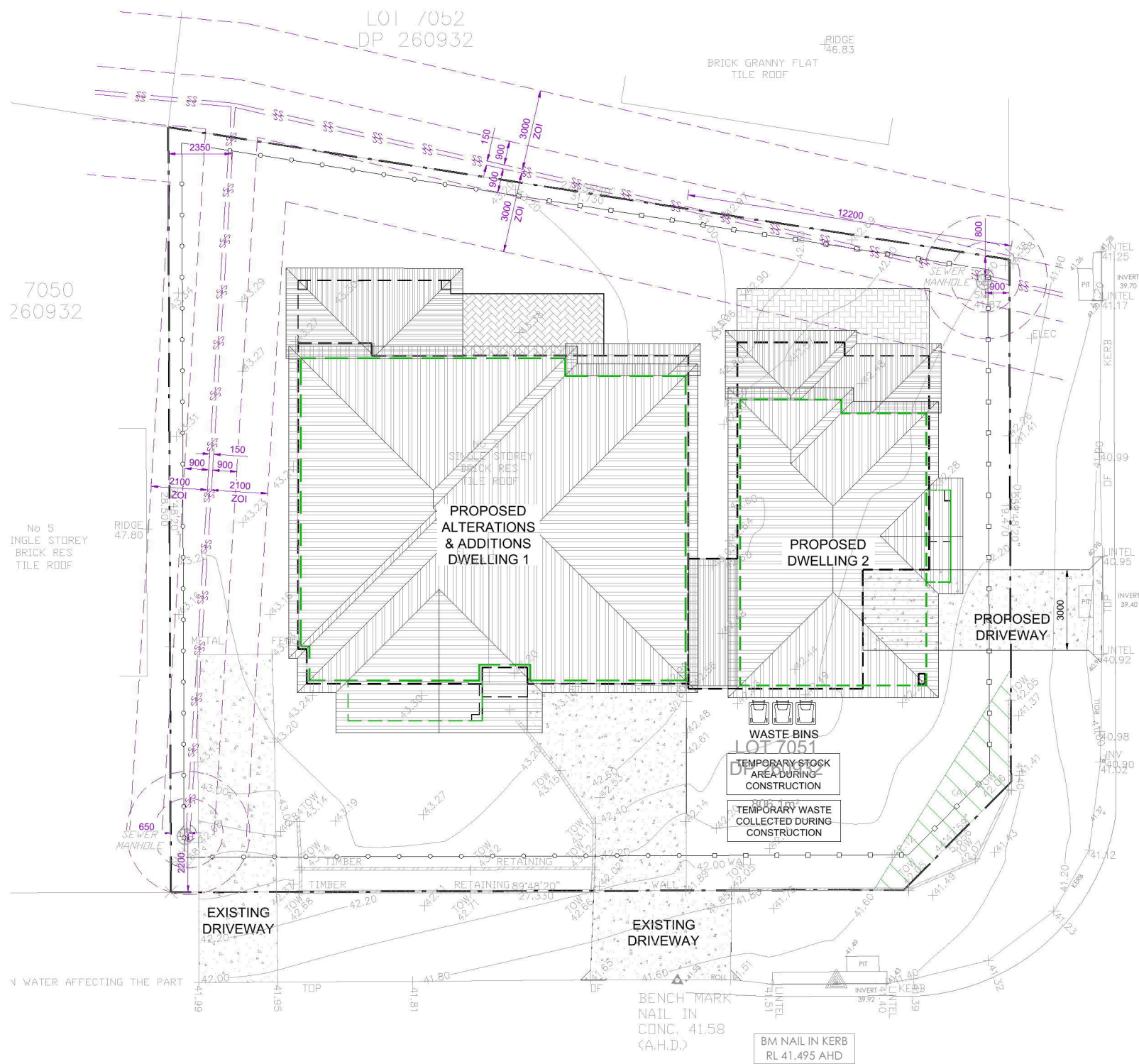
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**PROPOSED DUAL OCCUPANCY DWELLINGS**  
**3 VALLEYVIEW CRES, WERRINGTON DOWNS**  
**LOT 7051, DP 260932**  
**SITE PLAN, SITE ANALYSIS PLAN**  
**AND ROOF PLAN**

JOB NUMBER: 18228	DWG NUMBER: A01.02	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	





VALLEYVIEW

CRESCENT

- SITE BOUNDARY
- - - SEDIMENT CONTROL LINE
- - - TEMPORARY FENCE

## WASTE MANAGEMENT PLAN AND SEDIMENT CONTROL PLAN

1:200

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO  
ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

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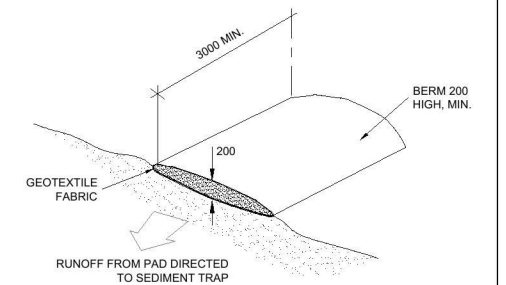
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PROPOSED DUAL OCCUPANCY DWELLINGS  
3 VALLEYVIEW CRES, WERRINGTON DOWNS  
LOT 7051, DP 260932

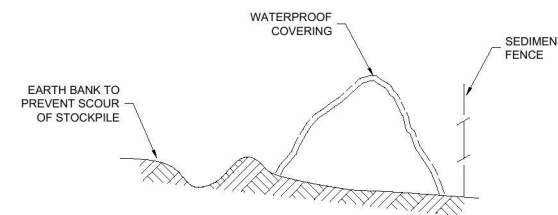
WASTE MANAGEMENT PLAN AND  
SEDIMENT CONTROL PLAN

JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE:
18228	A01.03	A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	



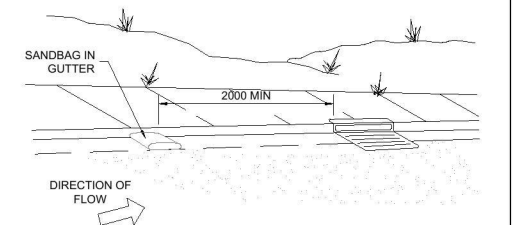
### VEHICLE ACCESS TO SITE

N.T.S.  
VEHICLE ACCESS TO THE BUILDING SITE SHOULD BE RESTRICTED TO  
A SINGLE POINT SO AS TO REDUCE THE AMOUNT OF SOIL DEPOSITED  
ON THE STREET PAVEMENT.



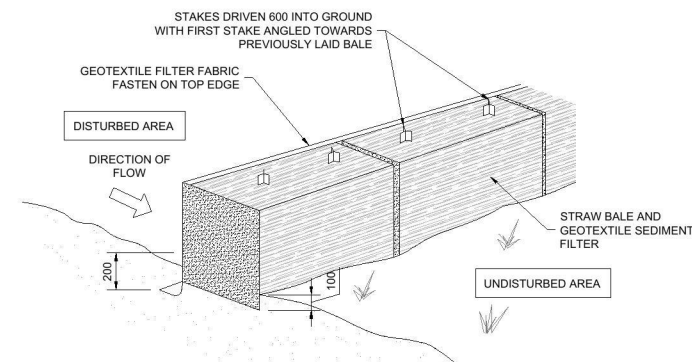
### BUILDING MATERIAL STOCKPILES

N.T.S.  
ALL STOCKPILES OF BUILDING MATERIAL SUCH AS SAND AND SOIL MUST BE  
PROTECTED TO PREVENT SCOUR AND EROSION.  
THEY SHOULD NEVER BE PLACED IN THE STREET GUTTER WHERE THEY  
WILL WASH AWAY WITH THE FIRST RAINSTORM.



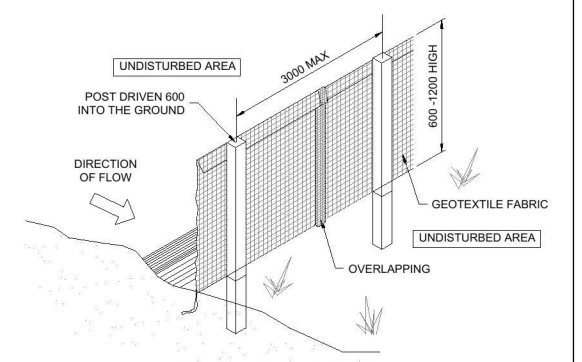
### SANDBAG KERB SEDIMENT TRAP

N.T.S.  
IN CERTAIN CIRCUMSTANCES EXTRA SEDIMENT TRAPPING  
MAY BE NEEDED IN THE STREET GUTTER.



### STRAW BALE DETAIL

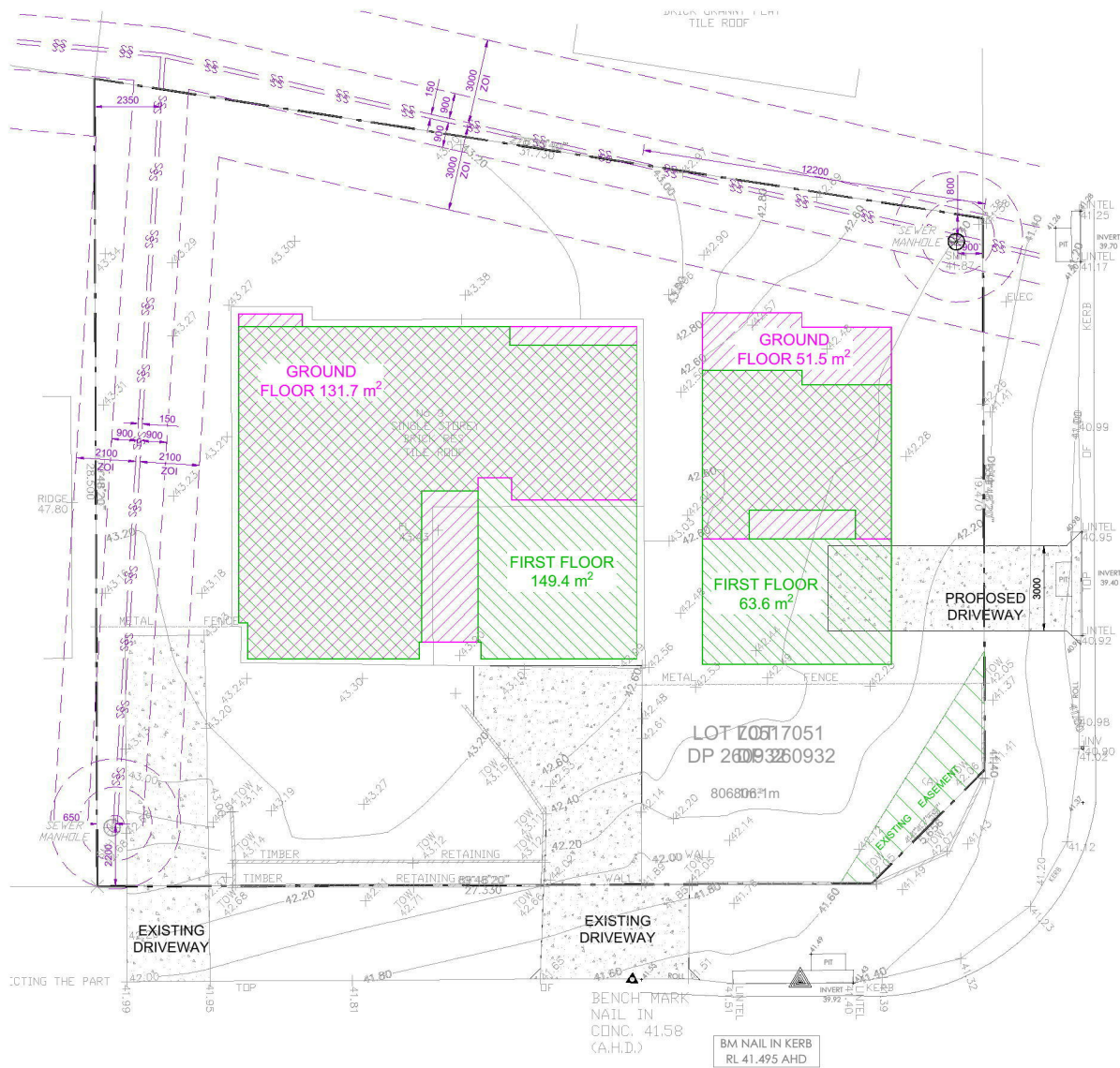
N.T.S.



### SEDIMENT AND EROSION FENCE DETAIL

N.T.S.

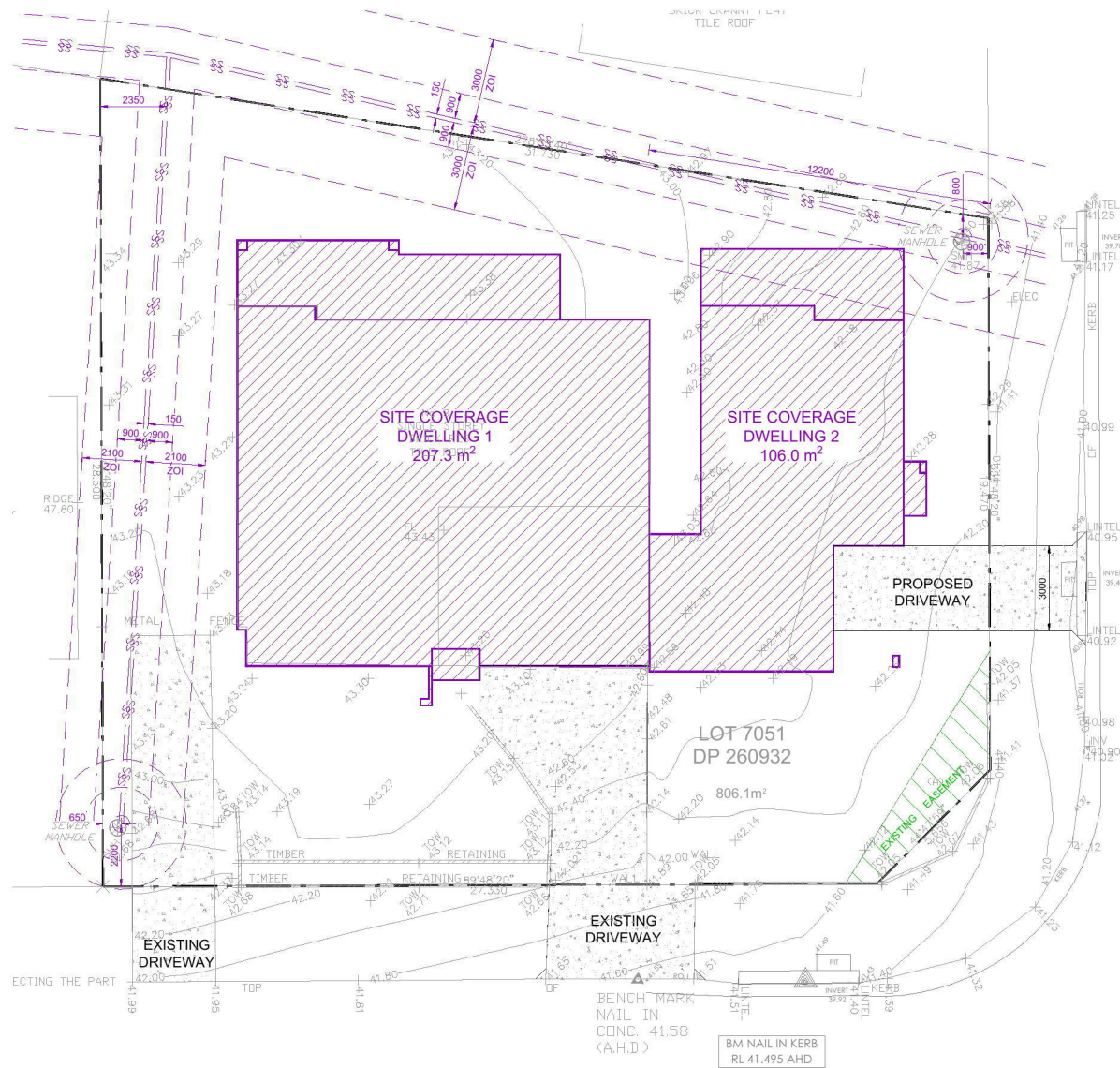




VALLEYVIEW

CRESCENT

1. FLOOR AREA  
1:250



VALLEYVIEW

CRESCENT

2. SITE COVERAGE  
1:250

SITE CALCULATIONS	
FLOOR AREA CALCULATIONS	
SITE AREA :	806.1 m <sup>2</sup>
AREA OF THE PROPOSED GROUND FLOOR:	183.2 m <sup>2</sup>
AREA OF THE PROPOSED FIRST FLOOR:	213 m <sup>2</sup>
PROPOSED TOTAL FLOOR AREA:	396.2 m <sup>2</sup> = 49.1% OF SITE
SITE COVERAGE CALCULATIONS	
SITE COVERAGE OF THE PROPOSED DWELLINGS: (INCLUDING PORCH, ALFRESCO & SLAB)	313.3 m <sup>2</sup>
MAXIMUM ALLOWABLE SITE COVERAGE: 50% OF SITE AREA = 0.50 x 806.1 m <sup>2</sup>	403 m <sup>2</sup>
PROPOSED COVERAGE:	313.3 m <sup>2</sup> < 403 m <sup>2</sup> OK
LANDSCAPING CALCULATIONS	
MIN. LANDSCAPING WIDTH :	2.0 m
PROPOSED LANDSCAPED AREA:	383.4 m <sup>2</sup> = 47.6 % OF SITE

REVISION
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NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

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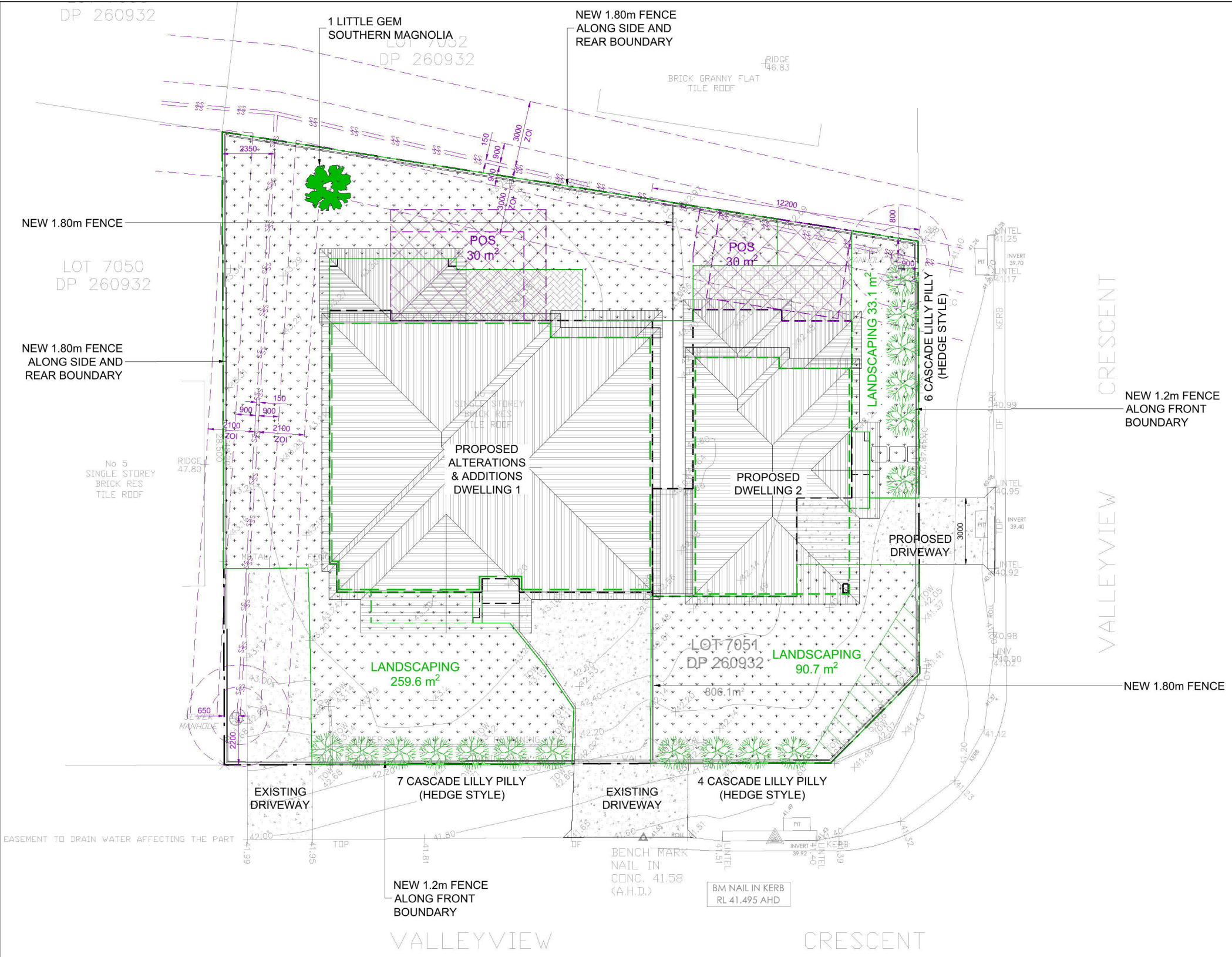
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402-410 CHAPEL RD,  
BANKSTOWN, NSW 2200  
P: 1300 888 072 M: 0422 606 228  
E: abraham@nemcodesign.com.au

PROPOSED DUAL OCCUPANCY DWELLINGS  
3 VALLEYVIEW CRES, WERRINGTON DOWNS  
LOT 7051, DP 260932

SITE CALCULATIONS

JOB NUMBER: 18228	DWG NUMBER: A01.04	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	





**CLP, Cascade Lilly Pilly**



**SPY, Spineless Yucca**  
amount:9



**LGM, Little Gem Southern Magnolia**  
amount: 2



**NZF, New Zealand Flax; amount: 4**

**LANDSCAPING PLAN**

- 1:200
- SITE BOUNDARY
  - PROPOSED LANDSCAPING
  - PROPOSED DRIVEWAY
  - PROPOSED PRIVATE OPEN SPACE

MIN. LANDSCAPING WIDTH : 2.0 m  
**PROPOSED LANDSCAPED AREA: 383.4 m<sup>2</sup> = 47.6 % OF SITE**

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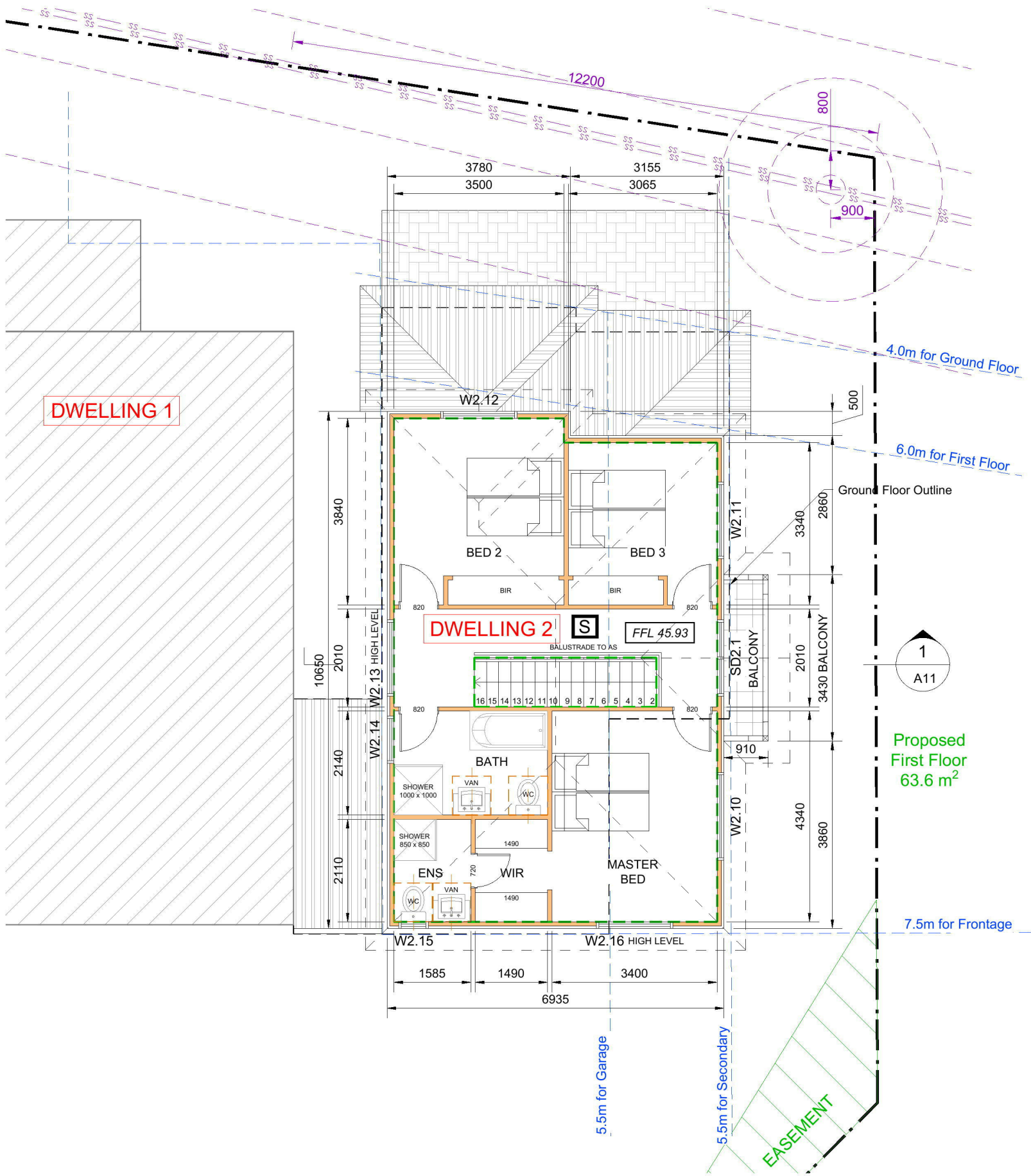
**PROPOSED DUAL OCCUPANCY DWELLINGS**

**3 VALLEYVIEW CRES, WERRINGTON DOWNS  
LOT 7051, DP 260932**

**LANDSCAPING PLAN**

JOB NUMBER: 18228	DWG NUMBER: A01.05	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	





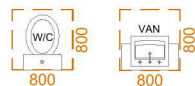
WINDOWS AND DOORS SCHEDULE - FIRST FLOOR						
WINDOW / DOOR NO.	N/S/W/E	HEIGHT [mm]	WIDTH [mm]	AREA [m <sup>2</sup> ]	OVERSHADOWING	TYPE
W2.10	-	1540	1810	2.79	eave/verandah/pergola/balcony 450 mm	Standard Aluminium, single clear
W2.11	-	1540	1570	2.42	eave/verandah/pergola/balcony 450 mm	Standard Aluminium, single clear
W2.12	-	1200	1570	1.88	eave/verandah/pergola/balcony 450 mm	Standard Aluminium, single clear
W2.13	-	600	1570	0.94	eave/verandah/pergola/balcony 450 mm	Standard Aluminium, single clear
W2.14	-	600	970	0.58	eave/verandah/pergola/balcony 450 mm	Standard Aluminium, OBSCURE & TOUGHENED GLASS
W2.15	-	600	610	0.37	eave/verandah/pergola/balcony 450 mm	Standard Aluminium, OBSCURE & TOUGHENED GLASS
W2.16	-	600	1570	0.94	eave/verandah/pergola/balcony 450 mm	Standard Aluminium, single clear
SD2.1	-	2100	1570	3.30	eave/verandah/pergola/balcony 450 mm	Sliding door. Standard Aluminium, single clear
TOTAL AREA [m <sup>2</sup> ]:					13.22	

## PROPOSED FIRST FLOOR PLAN

1:100

### LEGEND

**S** SMOKE ALARM SYSTEM



**PROPOSED NEW WALLS**

**PROPOSED GROUND FLOOR OUTLINE**

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NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

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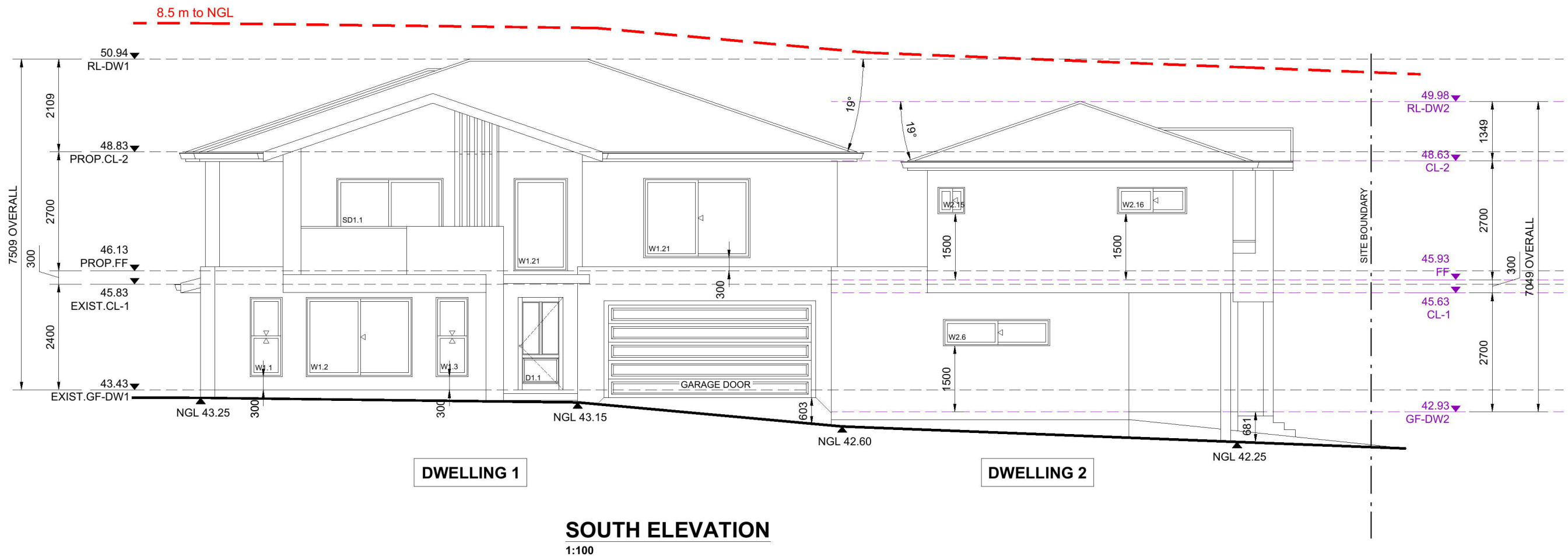
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E: abraham@nemcodesign.com.au

### PROPOSED DUAL OCCUPANCY DWELLINGS

3 VALLEYVIEW CRES, WERRINGTON DOWNS  
LOT 7051, DP 260932

### PROPOSED FIRST FLOOR PLAN - DWELLING 2

JOB NUMBER: 18228	DWG NUMBER: A06	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	



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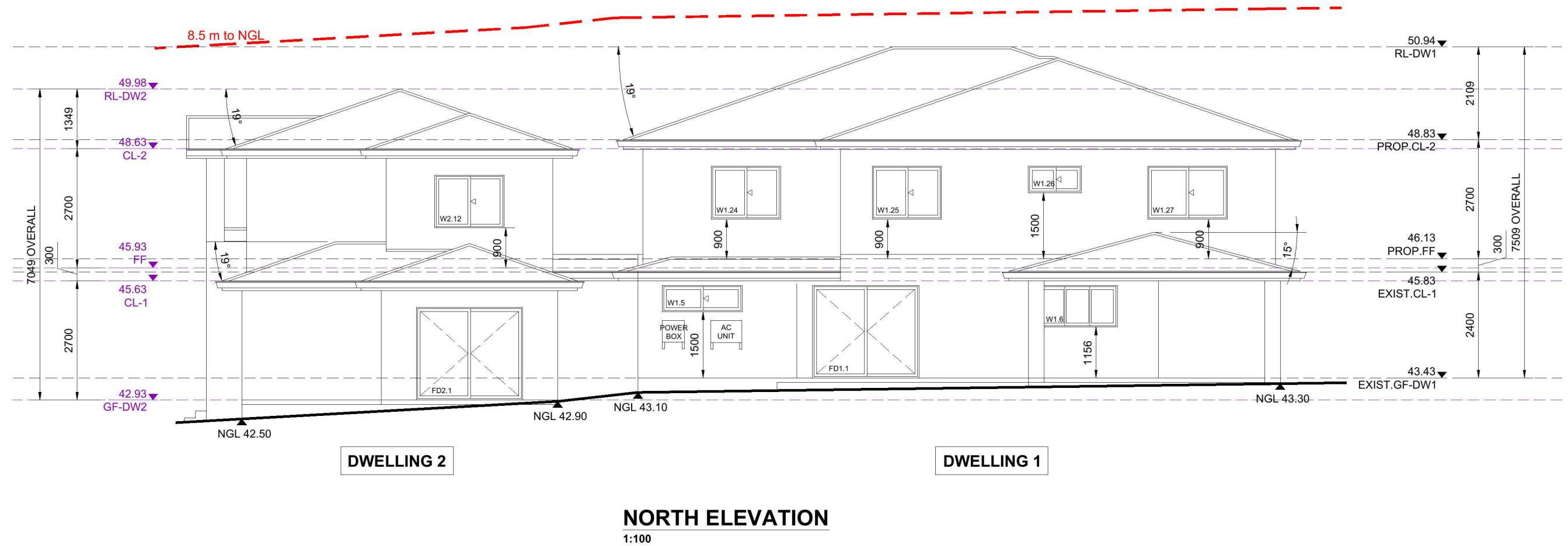
**PROPOSED DUAL OCCUPANCY DWELLINGS**

**3 VALLEYVIEW CRES, WERRINGTON DOWNS  
LOT 7051, DP 260932**

**SOUTH (FRONT) ELEVATION**

JOB NUMBER: 18228	DWG NUMBER: A07	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	





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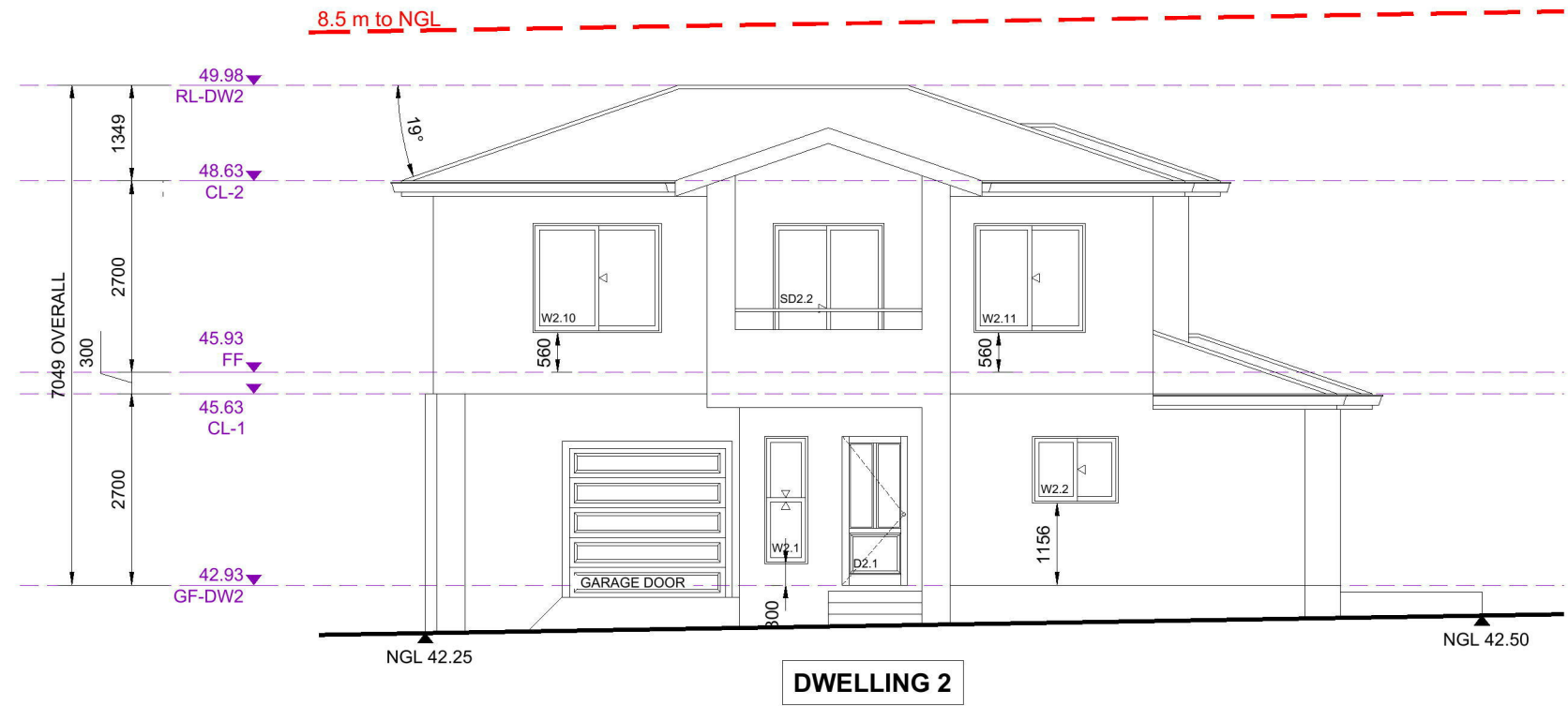
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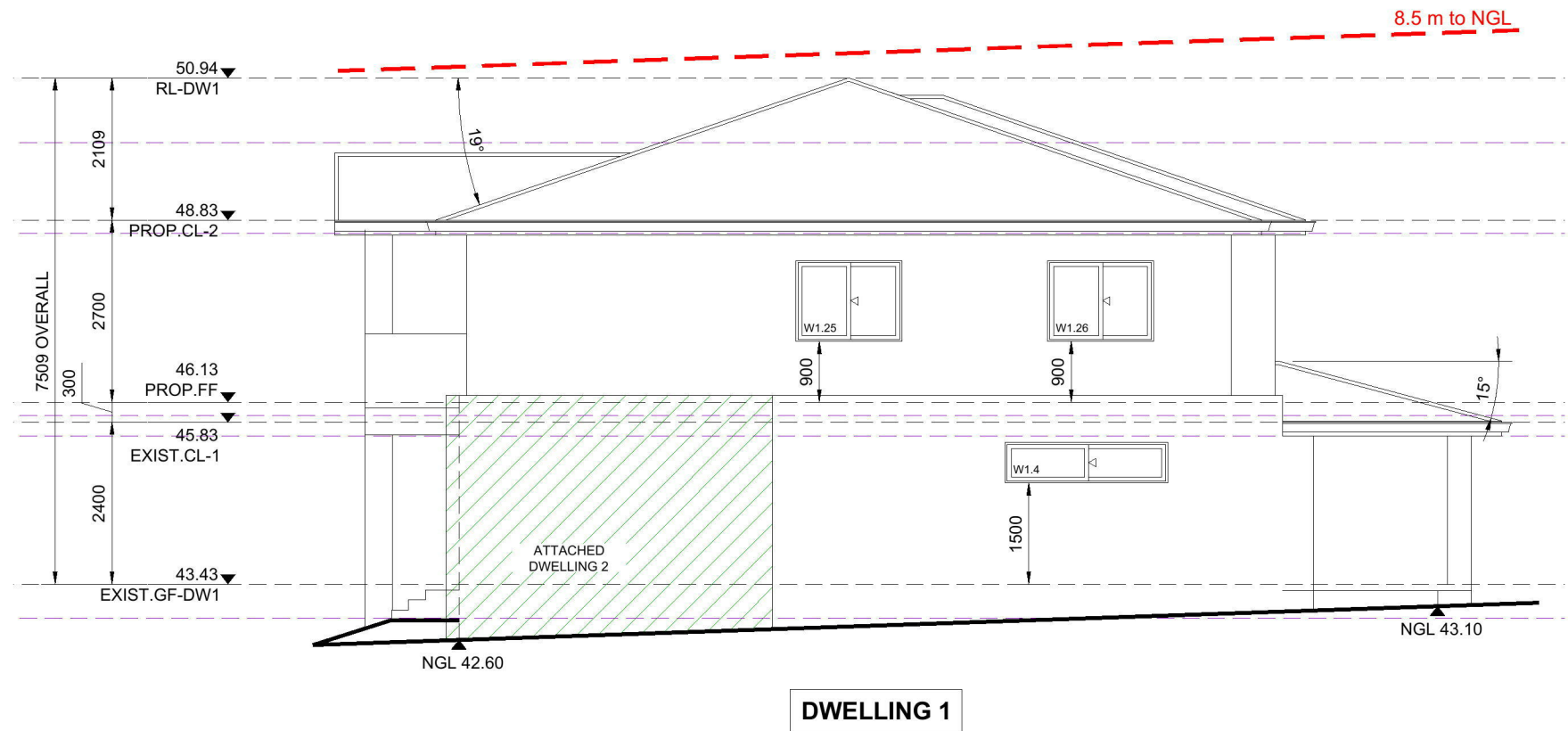
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P: 1300 888 072 M: 0422 606 228  
E: abraham@nemcodesign.com.au

PROPOSED DUAL OCCUPANCY DWELLINGS
3 VALLEYVIEW CRES, WERRINGTON DOWNS LOT 7051, DP 260932
NORTH ELEVATION

JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE:
18228	A08	A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	



**EAST ELEVATION**  
1:100



**EAST ELEVATION**  
1:100

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO  
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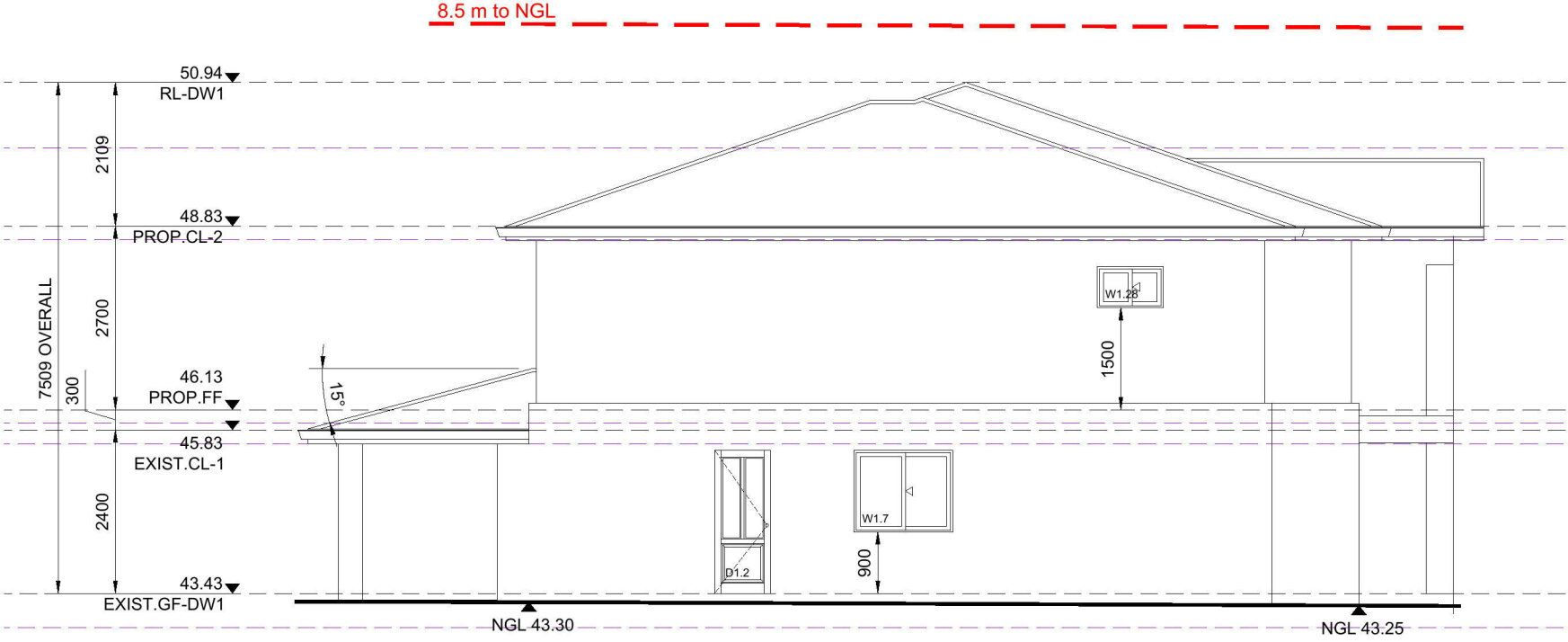
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PROPOSED DUAL OCCUPANCY DWELLINGS	
3 VALLEYVIEW CRES, WERRINGTON DOWNS LOT 7051, DP 260932	
EAST ELEVATION	

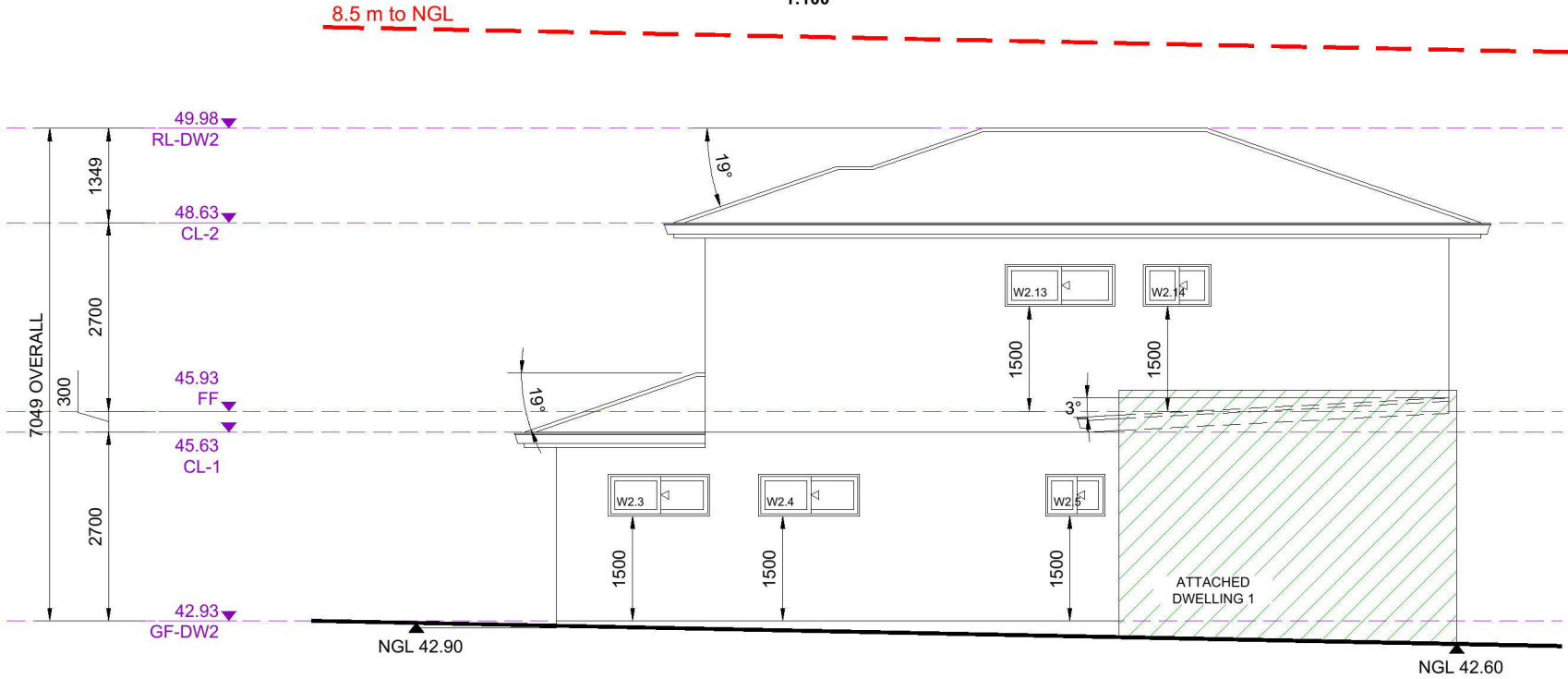
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18228	A09	A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	



DWELLING 1

WEST ELEVATION

1:100



DWELLING 2

WEST ELEVATION

1:100

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

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PROPOSED DUAL OCCUPANCY DWELLINGS  
3 VALLEYVIEW CRES, WERRINGTON DOWNS  
LOT 7051, DP 260932

WEST ELEVATION

JOB NUMBER: 18228	DWG NUMBER: A10	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	





08. TIMBER LOUVRES



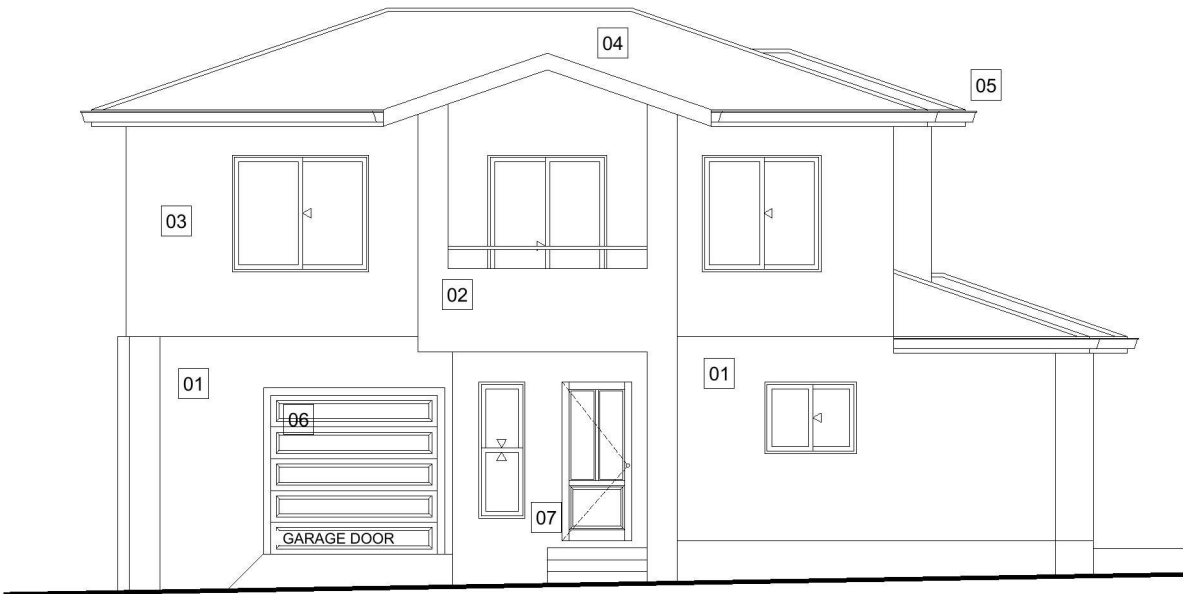
04. COLORBOND PITCHED ROOF



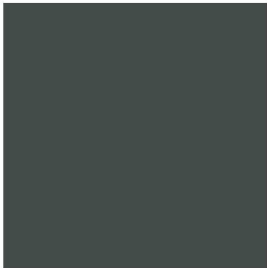
05. FASCIA & GUTTER



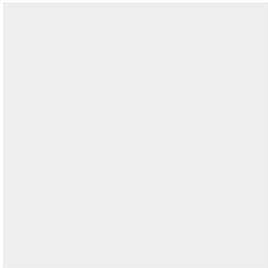
DWELLING 1



DWELLING 2



01. WOODLAND GREY  
RENDER



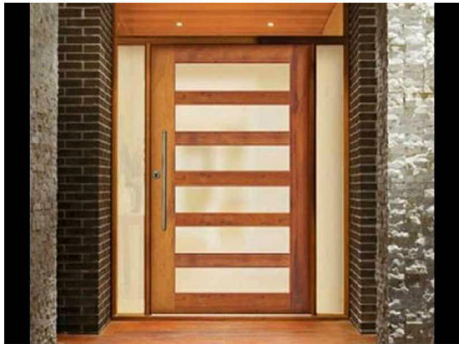
02. WHITE RENDER



03. WHITE CLADDING



06. GARAGE DOOR



07. SIDE PAVEWAY /  
ENTRANCE DOOR

SCHEDULE OF FINISHES

1:100

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO  
ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

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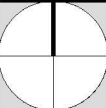
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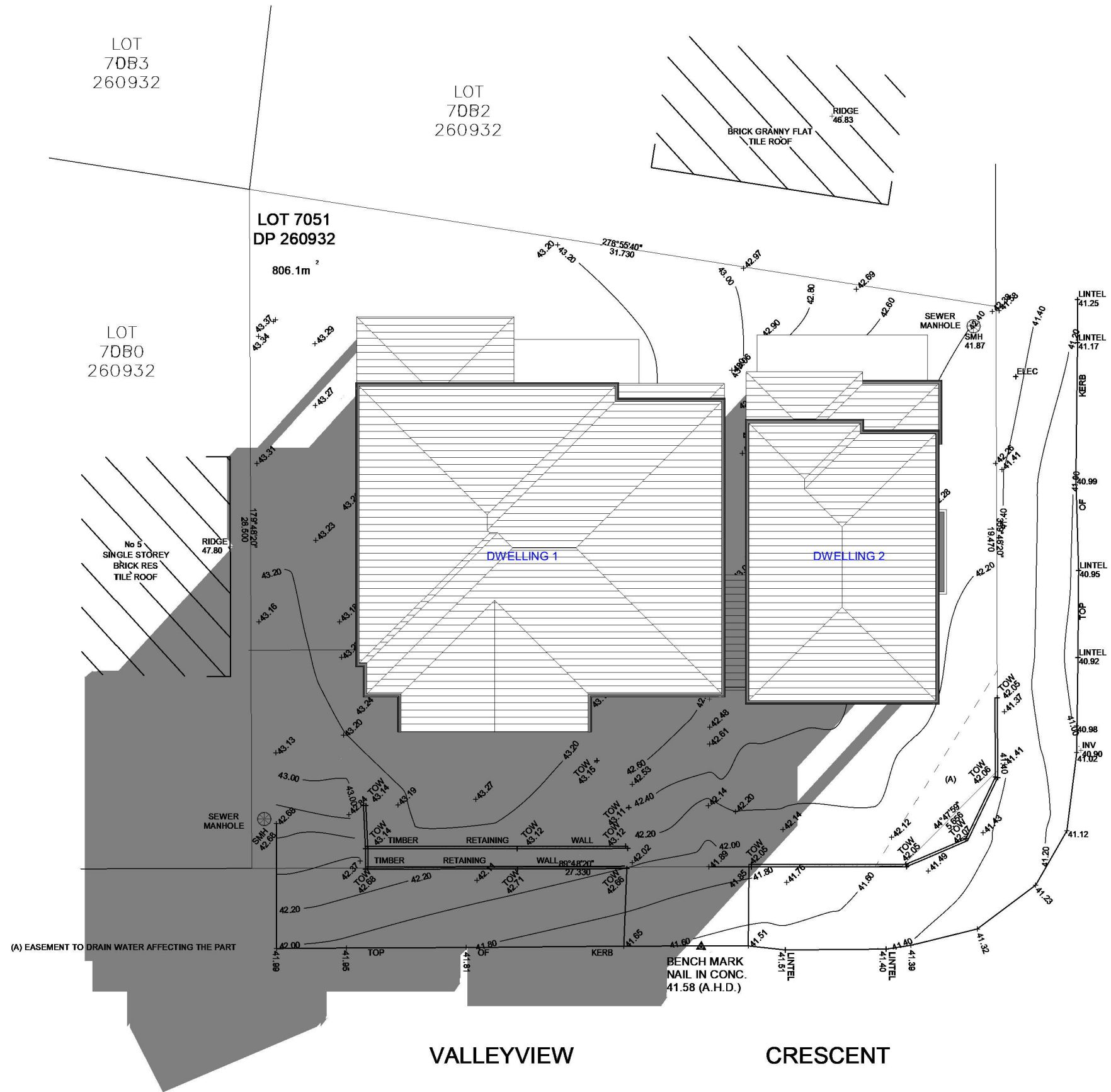


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E: abraham@nemcodesign.com.au

PROPOSED DUAL OCCUPANCY DWELLINGS	
3 VALLEYVIEW CRES, WERRINGTON DOWNS LOT 7051, DP 260932	
SCHEDULE OF FINISHES	

JOB NUMBER: 18228	DWG NUMBER: A12	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	



1 SHADOW DIAGRAM 21st Jun 9AM  
1 : 200

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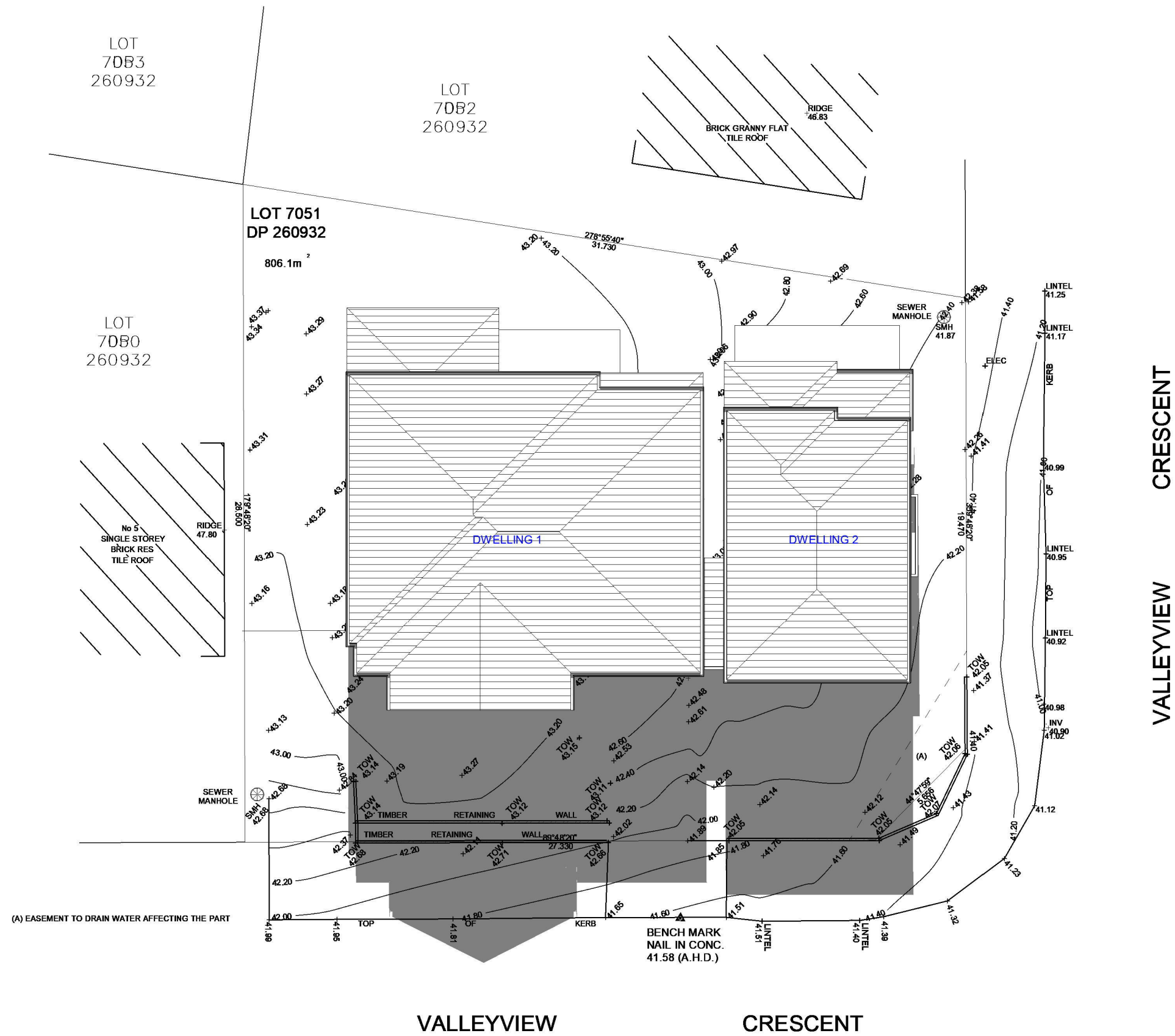
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NSW 2200  
P: 9709 5556 M: 0422 606 228  
E: abraham@nemcodesign.com.au

**PROPOSED DUAL OCCUPANCY DWELLINGS**  
**3 VALLEYVIEW CRES, WERRINGTON DOWNS**  
**LOT 7051, DP 260932**  
**SHADOW DIAGRAM - 21st Jun at 9AM**

JOB NUMBER: <b>18228</b>	DWG NUMBER: <b>A20.1</b>	ORIGINAL SIZE: A3
DESIGNED BY: A.N.	DATE: <b>19.06.2018</b>	
DRAWN BY: A.N.	SCALE: AS SHOWN	



(A) EASEMENT TO DRAIN WATER AFFECTING THE PART

1 SHADOW DIAGRAM 21st Jun 12PM  
1 : 200

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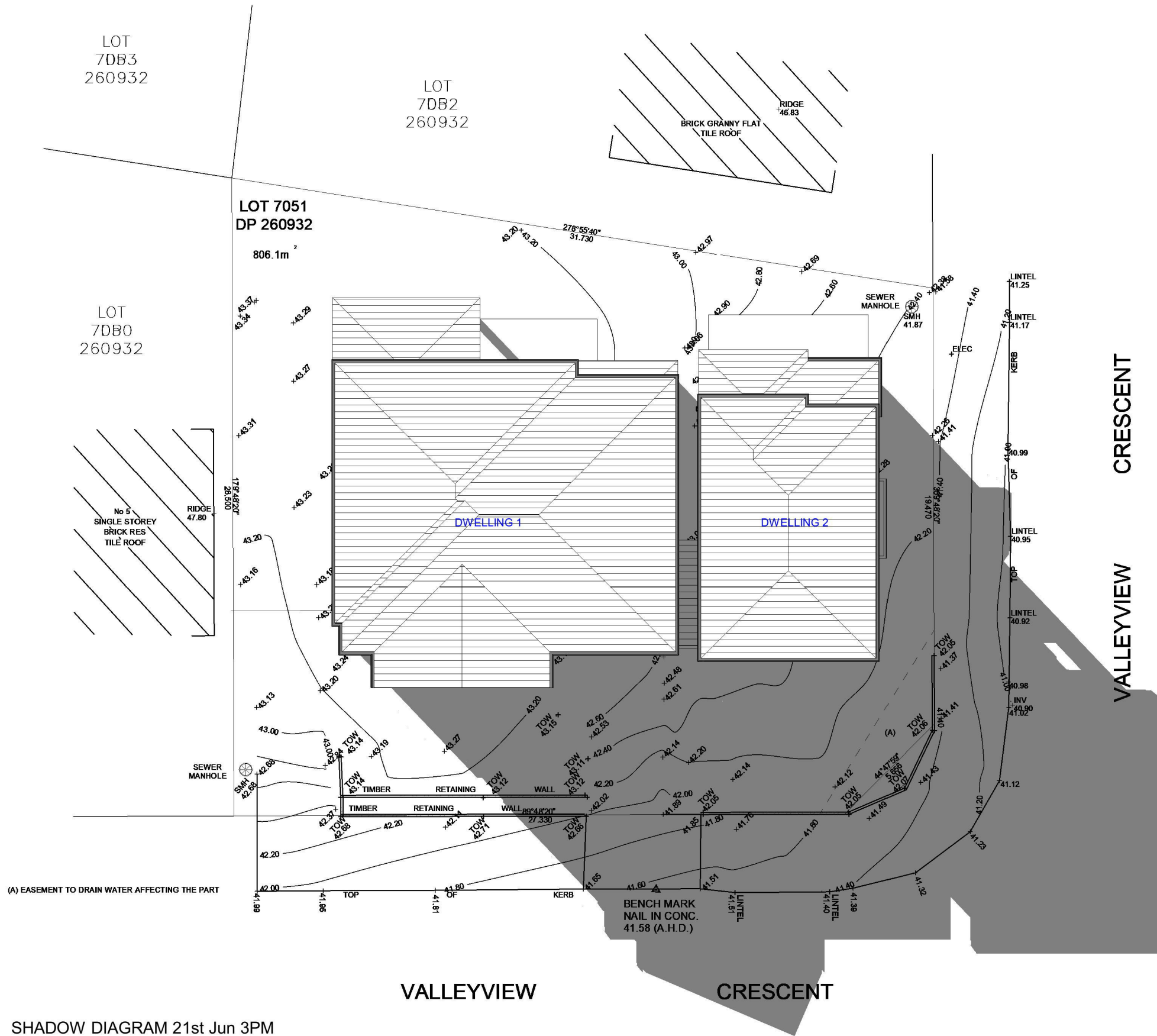
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E: abraham@nemcodesign.com.au

**PROPOSED DUAL OCCUPANCY DWELLINGS**  
**3 VALLEYVIEW CRES, WERRINGTON DOWNS**  
**LOT 7051, DP 260932**  
**SHADOW DIAGRAM - 21st Jun at 12pm**

JOB NUMBER: <b>18228</b>	DWG NUMBER: <b>A20.2</b>	ORIGINAL SIZE: A3
DESIGNED BY: A.N.	DATE: <b>19.06.2018</b>	
DRAWN BY: A.N.	SCALE: AS SHOWN	





1 SHADOW DIAGRAM 21st Jun 3PM  
1 : 200

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**PROPOSED DUAL OCCUPANCY DWELLINGS**  
**3 VALLEYVIEW CRES, WERRINGTON DOWNS**  
**LOT 7051, DP 260932**  
**SHADOW DIAGRAM - 21st Jun at 3PM**

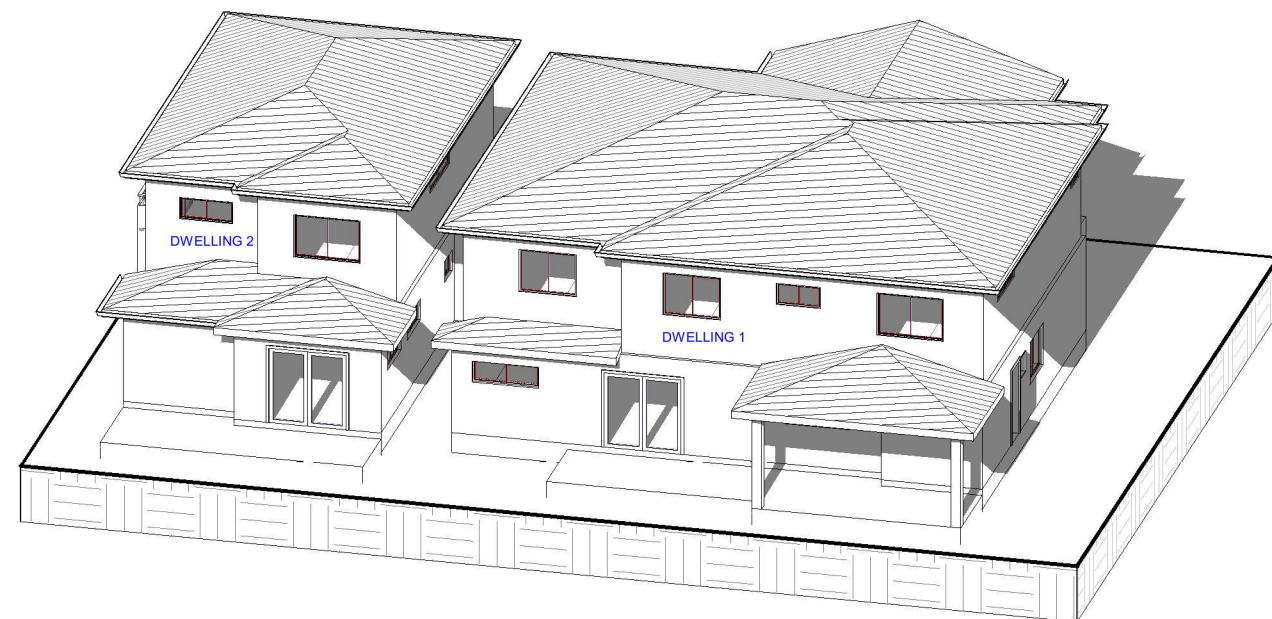
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DESIGNED BY: A.N.	DATE: <b>19.06.2018</b>	
DRAWN BY: A.N.	SCALE: AS SHOWN	



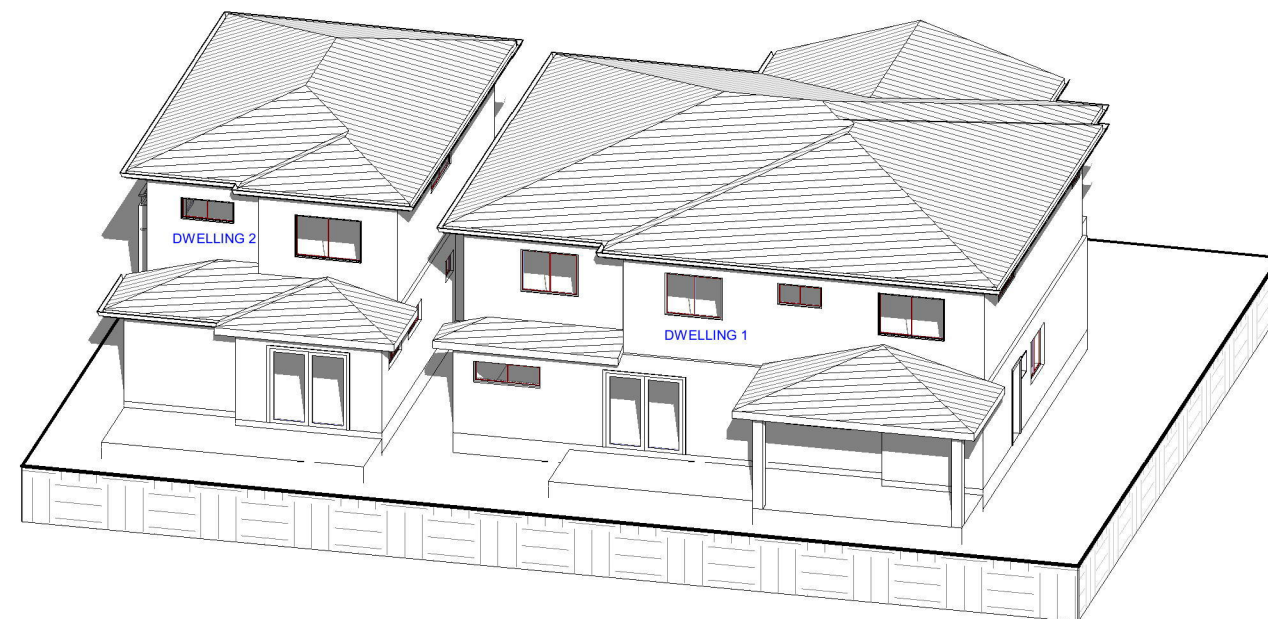
1 3 HOURS OF SUNLIGHT TO LIVING & POS - 10AM



2 3 HOURS OF SUNLIGHT TO LIVING & POS - 11AM



3 3 HOURS OF SUNLIGHT TO LIVING & POS - 12PM



4 3 HOURS OF SUNLIGHT TO LIVING & POS - 1PM

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E: abraham@nemcodesign.com.au

**PROPOSED DUAL OCCUPANCY DWELLINGS**  
**3 VALLEYVIEW CRES, WERRINGTON DOWNS**  
**LOT 7051, DP 260932**  
**3 HOURS OF SUNLIGHT TO LIVING ROOM**  
**& POS - DW1 & DW2**

JOB NUMBER: <b>18228</b>	DWG NUMBER: <b>A20.4</b>	ORIGINAL SIZE: A3
DESIGNED BY: A.N.	DATE: <b>19.06.2018</b>	
DRAWN BY: A.N.	SCALE: AS SHOWN	



# PROPOSED DUAL OCCUPANCY DWELLINGS AT 3 VALLEYVIEW CRESCENT, WERRINGTON DOWNS

## GENERAL

- G1** These drawings shall be read in conjunction with all architectural and other consultants drawings and specifications and with such other written instructions and sketches as may be issued during the course of the Contract. Any discrepancies shall be referred to the Superintendent before proceeding with any related works. Construction from these drawings, and their associated consultant's drawings is not to commence until approved by the Local Authorities.
- G2** All materials and workmanship shall be in accordance with the relevant and current Standards Australia codes and with the By-Laws and Ordinances of the relevant building authorities except where varied by the project specification.
- G3** All set out dimensions shall be obtained from Architect's and Engineer's details. All discrepancies shall be referred to the Architect and Engineer for decision before proceeding with related work.
- G4** During construction the structure shall be maintained in a stable condition and no part shall be overstressed. Temporary bracing shall be provided by the builder/subcontractor to keep the works and excavations stable at all times.
- G5** Unless noted otherwise levels are in metres and dimensions are in millimetres.
- G6** The alignment and level of all services shown are approximate only. The contractor shall confirm the position and level of all services prior to commencement of construction. Any damage to services shall be rectified at the contractors expense.
- G7** Any substitution of materials shall be approved by the Engineer and included in any tender.
- G8** All services, or conduits for servicing shall be installed prior to commencement of pavement construction.
- G9** Subsoil drainage, comprising 100 agriculture pipe in geo-stocking to be placed as shown and as may be directed by the superintendent. Subsoil drainage shall be constructed in accordance with the relevant local authority construction specification.
- G10** The structural components detailed on these drawings have been designed in accordance with the relevant Standards Australia codes and Local Government Ordinances for the following loadings. Refer to the Architectural drawings for proposed floor usage. Refer to drawings for live loads and superimposed dead loads.

## DRAINAGE NOTES

- D1** All drainage levels to be confirmed on site, prior to any construction commencing.
- D2** All pipes within the property to be a minimum of 100 dia upvc @ 1% minimum grade, uno.
- D3** All pits within the property are to be fitted with "weldlok" or approved equivalent grates:  
- Light duty for landscaped areas  
- Heavy duty where subjected to vehicular traffic
- D4** All pits within the property to be constructed as one of the following:  
1) Precast stormwater pits  
2) Cast insitu mass concrete  
3) Cement rendered 230mm brickwork subject to the relevant local authority construction specification.
- D5** Ensure all grates to pits are set below finished surface level within the property. Top of pit RL's are approximate only and may be varied subject to approval of the engineer. All invert levels are to be achieved.
- D6** Any pipes beneath relevant local authority road to be rubber ring jointed RCP, uno.
- D7** All pits in roadways are to be fitted with heavy duty grates with locking bolts and continuous hinge.
- D8** Provide step irons to stormwater pits greater than 1200 in depth.
- D9** Trench back fill in roadways shall comprise sharp, clean granular back fill in accordance with the relevant local authority specification to non-trafficable areas to be compacted by rodding and tamping using a flat plate vibrator.
- D10** Where a high early discharge (hed) pit is provided all pipes are to be connected to the hed pit, uno.
- D11** Down pipes shall be a minimum of dn100 sw grade upvc or 100 x100 colorbond/zincalume steel, uno.
- D12** Colorbond or zincalume steel box gutters shall be a minimum of 450 wide x 150 deep.
- D13** Eaves gutters shall be a minimum of 125 wide x 100 deep (or of equivalent area) colorbond or zincalume steel, uno.
- D14** Subsoil drainage shall be provided to all retaining walls & embankments, with the lines feeding into the stormwater drainage system, uno.

## EROSION AND SEDIMENT CONTROL NOTES

- E1** These notes are to be read in conjunction with erosion and sediment control details in this drawing set.
- E2** The contractor shall implement all soil erosion and sediment control measures as necessary and to the satisfaction of the relevant local authority prior to the commencement of and during construction. No disturbance to the site shall be permitted other than in the immediate area of the works and no material shall be removed from the site without the relevant local authority approval. All erosion and sediment control devices to be installed and maintained in accordance with standards outlined in new department of housing's "managing urban stormwater - soils and constructions".
- E3** Place straw bales length wise in a row as parallel as possible to the site contours, uno. Bale ends to be tightly butted. Bales are to be placed so that straws are parallel to the row. Bales are to be placed 1.5m to 2m downslope from the toe of the disturbed batter, uno.
- E4** Council approved filter fabric to be entrenched 150mm deep upslope towards disturbed surface. Fabric to be a minimum SF2000 or better. Fix fabric to posts with wire ties or as recommended with manufacturer's specifications. Fabric joints to have a minimum of 150mm overlap. Wire to be strung between posts with filter fabric overlap to prevent sagging.
- E5** Stabilised entry/exit points to remain intact until finished driveway is complete. Construction of entry/exit points to be maintained and repaired as required so that it's function is not compromised. Construction of entry/exit point to be in accordance with the detail contained within this drawing set.
- E6** All drainage pipe inlets to be capped until:  
- downpipes connected  
- pits constructed and protected with silt barrier
- E6** Provide and maintain silt traps around all surface inlet pits until catchment is revegetated or paved.
- E7** The contractor shall regularly maintain all erosion and sediment control devices and remove accumulated silt from such devices such that more than 60% of their capacity is lost. All the silt is to be placed outside the limit of works. The period for maintaining these devices shall be at least until all disturbed areas are revegetated and further as may be directed by the superintendent or council.
- E8** The contractor shall implement dust control by regularly wetting down (but not saturating) disturbed area.
- E9** Topsoil shall be stripped and stockpiled outside hazard areas such as drainage lines. This topsoil shall be respread later on areas to be revegetated and stabilised only, (i.e. all footpaths, batters, site regarding areas, basins and catchdrains). Topsoil shall not be respread on any other areas unless specifically instructed by the superintendent. If they are to remain for longer than one month stockpiles shall be protected from erosion by covering them with a mulch and hydrosowing and, if necessary, by locating banks or drains downstream of a stockpile to retard silt laden runoff.
- E10** Lay 300 wide minimum turf strip on 100 topsoil behind all kerb and gutter with 1000 long returns every 6000 and around structures immediately after backfilling as per the relevant local authority specification.
- E11** The contractor shall grass seed all disturbed areas with an approved mix as soon as practicable after completion of earthworks and regrading.
- E12** Revegetate all trenches immediately upon completion of backfilling.
- E13** When any devices are to be handed over to council they shall be in clean and stable condition.

## STANDARD LINE TYPES AND SYMBOLS

	PROPOSED KERB & GUTTER
	EXISTING KERB & GUTTER
	PROPOSED BELOW GROUND PIPELINE
	PROPOSED SUSPENDED PIPELINE
	EXISTING PIPELINE
	SUBSOIL DRAINAGE LINE
	PROPOSED KERB INLET PIT
	EXISTING KERB INLET PIT
	PROPOSED JUNCTION OR INLET PIT
	EXISTING JUNCTION OR INLET PIT
	DESIGN CENTRELINE
	EXISTING EDGE OF BITUMEN
	TELECOMMUNICATION CONDUIT
	GAS MAIN
	WATER MAIN
	SEWER MAIN
	UNDERGROUND ELECTRICITY CABLES
	PERMANENT MARK & S.S.M.
	BENCHMARK, SURVEY STATION

## STANDARD LINE TYPES AND SYMBOLS

	OVERLAND FLOW PATH
	GUTTER DRAINAGE DIRECTION
	DOWNPIPE
	DOWNPIPE WITH SIDE OVERFLOW
	PERVIOUS (GRASSED) AREAS
	EXISTING (PRE-DEVELOPMENT) RL
	POST DEVELOPMENT RL
	GRADED IMPERVIOUS AREA (ROOF, CONC SLABS ETC)
	SEDIMENT FENCE
	CROSSING PIPES
	NODE POINT

## LEGEND

AHD	Australian height datum	SS	Stainless steel
AG	Ag-pipe (Sub soil drainage)	SU	Box gutter sump
ARI	Average recurrence interval	TW	Top of wall
BG	Box Gutter	TWL	Top water level
BWL	Bottom water level	UIS	Underside of slab
CL	Cover level	VG	Vally gutter
CO	Clean out inspection opening	UNO	Unless noted otherwise
DCP	Discharge control pit		
DP	Down pipe		
DRP	Dropper pipe		
EBG	Existing box gutter		
EDP	Existing down pipe		
EEG	Existing eaves gutter		
EG	Eaves gutter		
FRC	Fiber reinforced concrete		
FW	Floor waste		
GD	Grated drain		
GSIP	Grated surface inlet pit		
HED	High early discharge		
HP	High point of gutter		
IL	Invert level		
IO	Inspection opening		
O/F	Overflow		
OSD	On-site detention		
PSD	Permissible site discharge		
P1	Pipe 1		
RCP	Reinforced concrete pipe		
RHS	Rectangular hollow section		
RL	Reduced level		
RRJ	Rubber ring joint		
RRT	Rainwater re-use tank		
RWH	Rain water head		
RWO	Rain water outlet		
SLAP	Sealed lid access pit		
SP	Spreader pipe		
SPR	Spreader		

## RECOMMENDED MAINTENANCE SCHEDULE

DISCHARGE CONTROL PIT (DCP)	FREQUENCY	RESPONSIBILITY	PROCEDURE
Inspect flap valve and remove any blockage.	Six monthly	Owner	Remove grate. Ensure flap valve moves freely and remove any blockages or debris.
Inspect screen and clean.	Six monthly	Owner	Remove grate and screen if required and clean it.
Inspect & remove any blockage of orifice.	Six monthly	Owner	Remove grate & screen to inspect orifice. see plan for location of dcp.
Inspect dcp sump & remove any sediment-sludge.	Six monthly	Owner	Remove grate and screen. Remove sediment/sludge build-up and check orifice and flap valve clear.
Inspect grate for damage or blockage.	Six monthly	Owner	Check both sides of grate for corrosion, (especially corners and welds) damage or blockage.
Inspect return pipe from storage and return any blockage.	Six monthly	Owner	Remove grate and screen, ventilate underground storage if present. open flap valve and remove any blockages in return line. Check for sludge/debris on upstream side of return line.
Inspect outlet pipe and remove any blockage.	Six monthly	Maintenance Contractor	Remove grate and screen, ventilate underground storage if present. Check orifice and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.
Check fixing of step irons is secure.	Six monthly	Maintenance Contractor	Remove grate and ensure fixings secure prior to placing weight on step iron.
Inspect overflow weir & remove any blockage.	Six monthly	Maintenance Contractor	Remove grate and open cover to ventilate underground storage if present. ensure weir clear of blockages.
Empty basket at overflow weir (if present).	Six monthly	Maintenance Contractor	Remove grate and ventilate underground storage chamber if present. Empty basket, check fixings secure and not corroded.
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance Contractor	Remove grate and screen. ensure plate mounted securely, tighten fixings if required. seal gaps as required.
Check attachment of screen to wall of pit.	Annually	Maintenance Contractor	Remove grate and screen. ensure screen fixings secure. repair as required.
Check screen for corrosion.	Annually	Maintenance Contractor	Remove grate and examine screen for rust or corrosion, especially at corners or welds.
Check attachment of flap valve to wall of .	Annually	Maintenance Contractor	Remove grate. Ensure fixings of valve are secure.
Check flap valve seals against wall of pit.	Annually	Maintenance Contractor	Remove grate. fill pit with water and check that flap seals against side of pit with minimal leakage.
Check any hinges of flap valve move freely.	Annually	Maintenance Contractor	Remove grate. Test valve hinge by moving flap to full extent.
Inspect dcp walls (internal and external, if appropriate) for cracks or spalling.	Annually	Maintenance Contractor	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.
Check step irons for corrosion.	Annually	Maintenance Contractor	Remove grate. Examine step irons and repair any corrosion or damage.
Check orifice diameter correct and retains sharp edge.	Five yearly	Maintenance Contractor	Compare diameter to design (see work-as- executed) and ensure edge is not pitted or damaged.
STORAGE			
Inspect & remove any blockage of orifice.	Six monthly	Owner	Remove grate and screen. remove sediment/sludge build-up.
Check orifice diameter correct and retains sharp edge.	Six monthly	Owner	Remove blockages from grate and check if pit blocked.
Inspect screen and clean.	Six monthly	Owner	Remove debris and floatable material likely to be carried to grates.
Check attachment of orifice plate to wall of pit (gaps less than 5 mm).	Annually	Maintenance Contractor	Remove grate to inspect internal walls. repair as required. clear vegetation from external walls if necessary and repair as required.
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor	Compare actual storage available with work-as-executed plans. If volume loss is greater than 5%, arrange for reconstruction to replace the volume lost. Council to be notified of the proposal.
Check attachment of screen to wall of pit.	Five yearly	Maintenance Contractor	Check along drainage lines and at pits for subsidence likely to indicate leakages.

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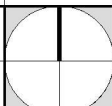
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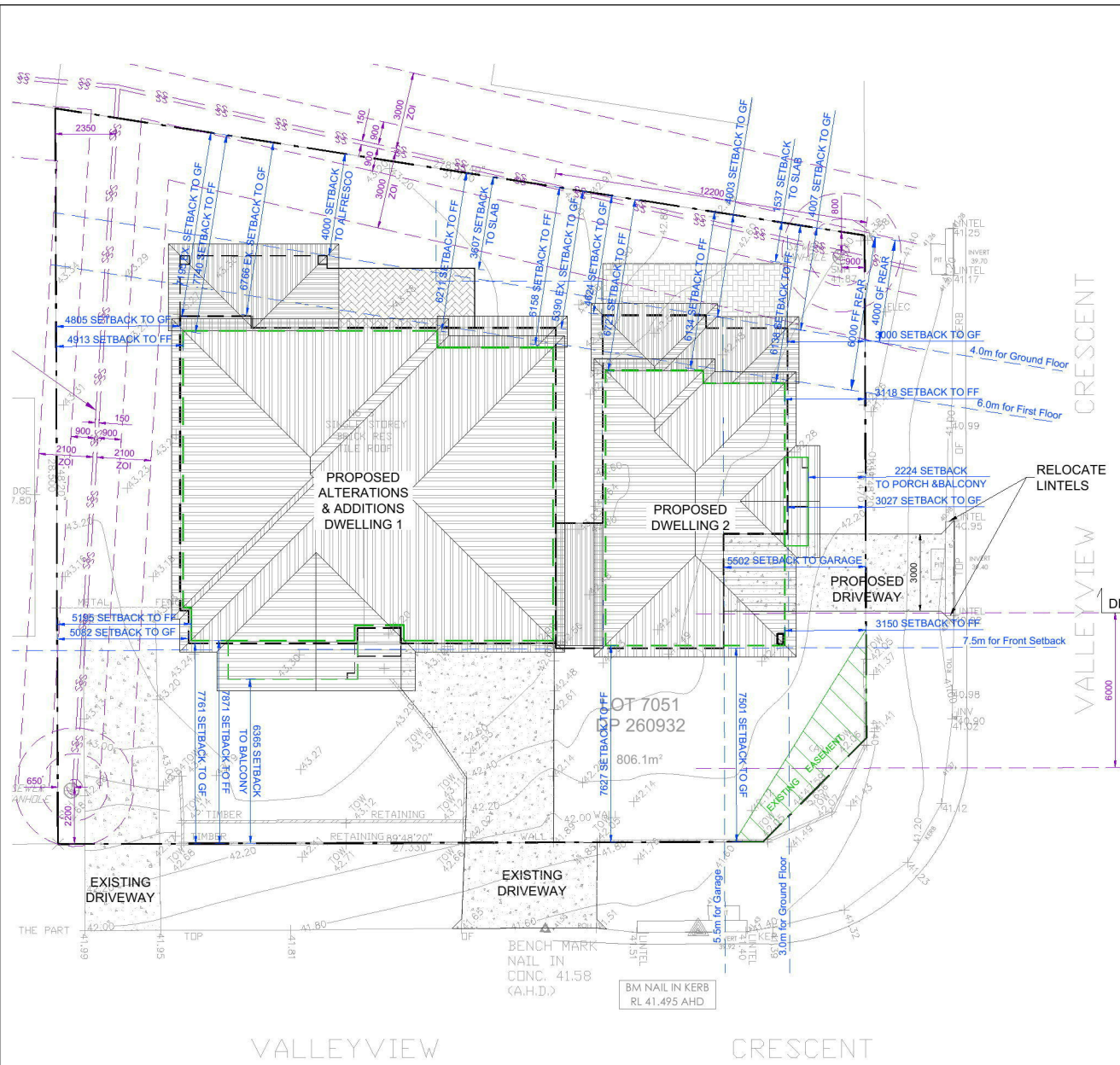
**PROPOSED DUAL OCCUPANCY DWELLINGS**  
**3 VALLEYVIEW CRES, WERRINGTON DOWNS**  
**LOT 7051, DP 260932**

## GENERAL NOTES

JOB NUMBER: 18228	DWG NUMBER: C00	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	





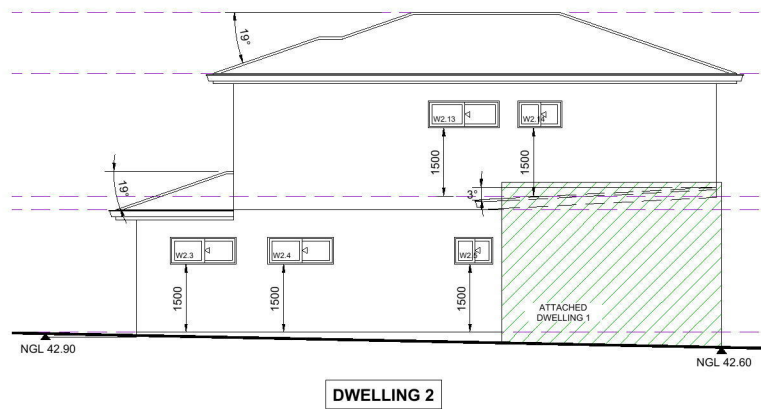


VALLEYVIEW

CRESCENT

— SITE BOUNDARY

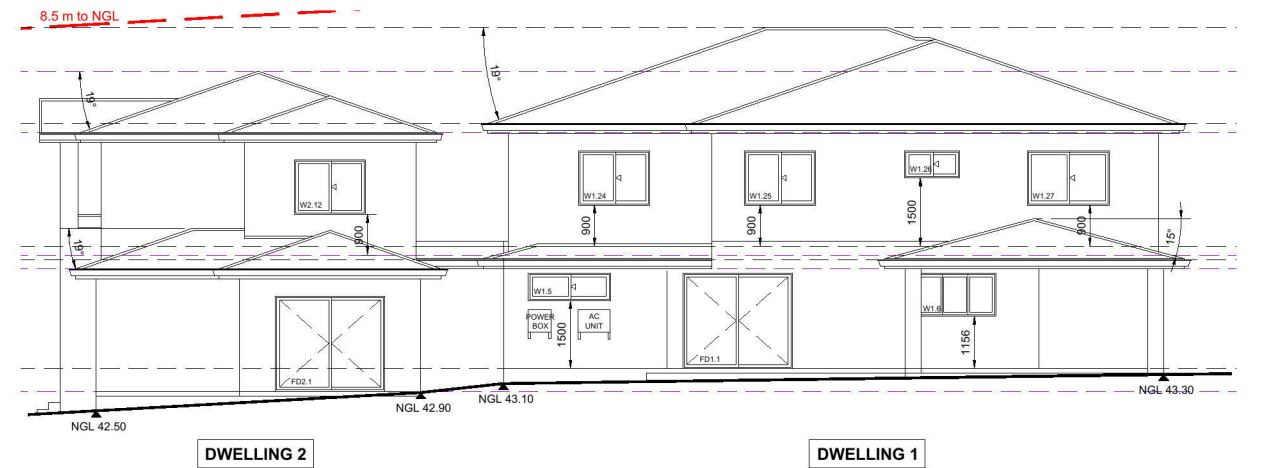
### SITE PLAN, SITE ANALYSIS PLAN AND ROOF PLAN



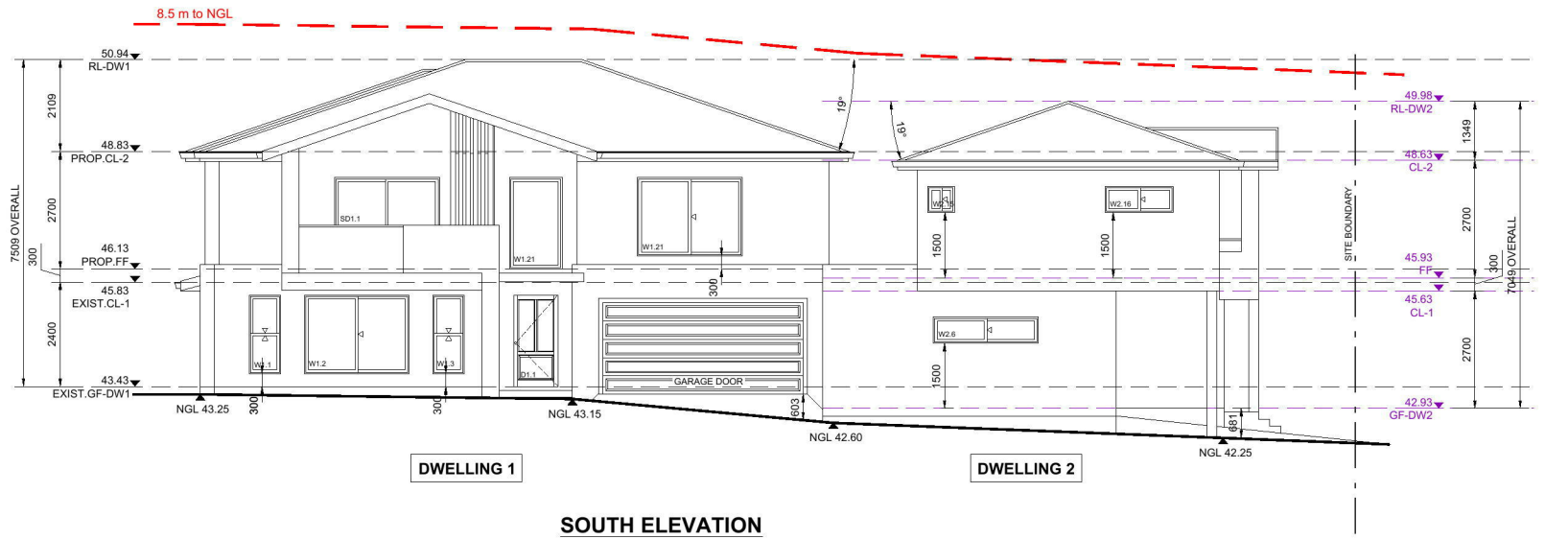
WEST ELEVATION



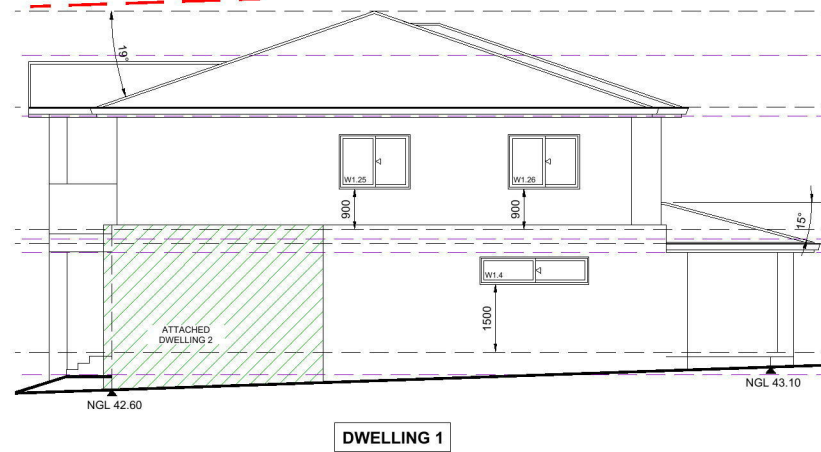
EAST ELEVATION



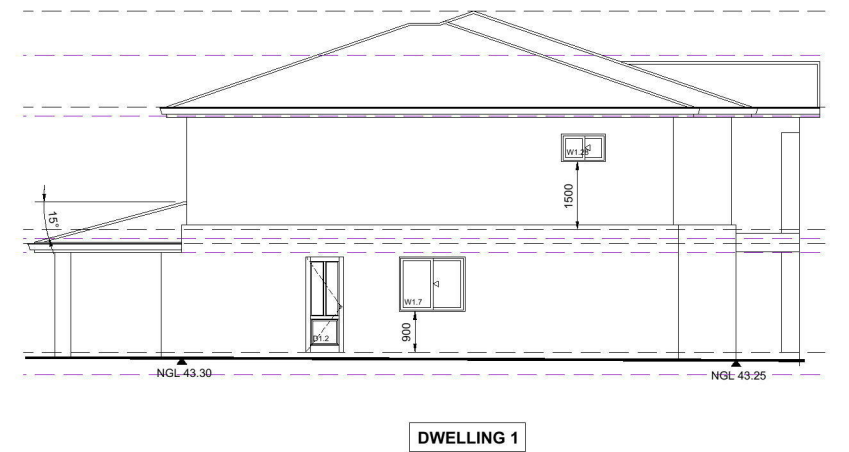
NORTH ELEVATION



SOUTH ELEVATION



EAST ELEVATION



WEST ELEVATION

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO  
ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

REVISION  
**A**

REV	DATE	DESCRIPTION	BY
A	28.08.2018	ISSUED FOR DA	AA

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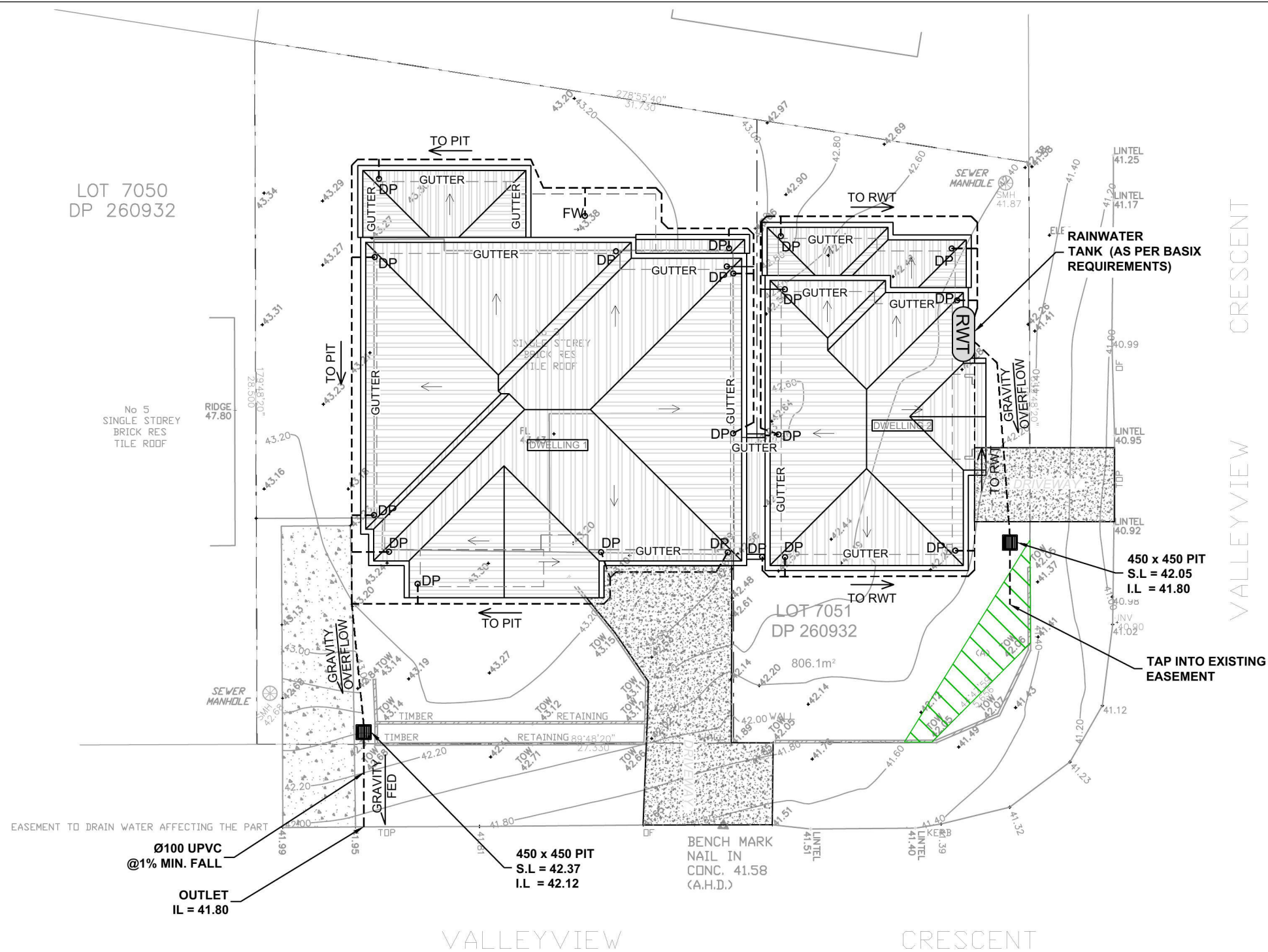
A: SUITE 4, LEVEL 1,  
402-410 CHAPEL RD,  
BANKSTOWN, NSW 2200  
P: 1300 888 072 M: 0422 606 228  
E: abraham@nemcodedesign.com.au

**PROPOSED DUAL OCCUPANCY DWELLINGS**  
3 VALLEYVIEW CRES, WERRINGTON DOWNS  
LOT 7051, DP 260932

**A4 NOTIFICATIONS**

JOB NUMBER: 18228	DWG NUMBER: A21	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	





## STORMWATER DRAINAGE PLAN

1:200

- ALL DRAINAGE LINES SHALL BE uPVC (CLASS SH) STORMWATER DRAINAGE PIPE, U.N.O.
- ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, U.N.O.
- MINIMUM EAVE GUTTER SIZE = 13400mm<sup>2</sup>
- ALL DRAINAGE LINES TO BE Ø100
- ALL GUTTERS TO BE FITTED WITH GUTTER GUARD TO BUILDERS DETAIL
- MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:200 U.N.O.
- THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

## LEGEND

DP = Ø100 OR 100 x 75 RECTANGULAR DOWN PIPE, U.N.O.  
DP/SP = DOWN PIPE + SPREADER

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO  
ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

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P: 1300 888 072 M: 0422 606 228  
E: abraham@nemcodesign.com.au

**PROPOSED DUAL OCCUPANCY DWELLINGS**  
**3 VALLEYVIEW CRES, WERRINGTON DOWNS**  
**LOT 7051, DP 260932**  
**STORMWATER DRAINAGE PLAN**

JOB NUMBER: 18228	DWG NUMBER: C01	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	

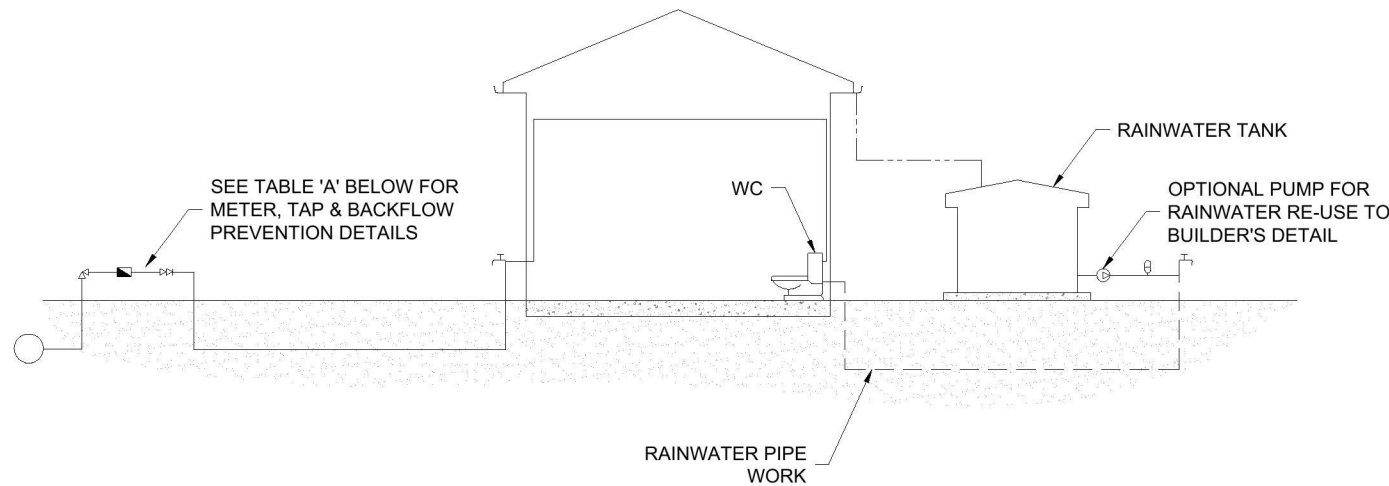


TABLE A

RAINWATER TANK LOCATION	METER SIZE (mm)	TYPE OF TAP	TYPE OF BACKFLOW PREVENTION
ABOVE GROUND	20	BALL VALVE	DUAL CHECK VALVE (COMBINED WITH METER)
	25	BALL VALVE	DUAL CHECK VALVE
	> 32	BALL VALVE	DUAL CHECK VALVE
BELOW GROUND	20	BALL VALVE	TESTABLE DOUBLE CHECK VALVE
	25	BALL VALVE	TESTABLE DOUBLE CHECK VALVE
	> 32	BALL VALVE	TESTABLE DOUBLE CHECK VALVE

LEGEND

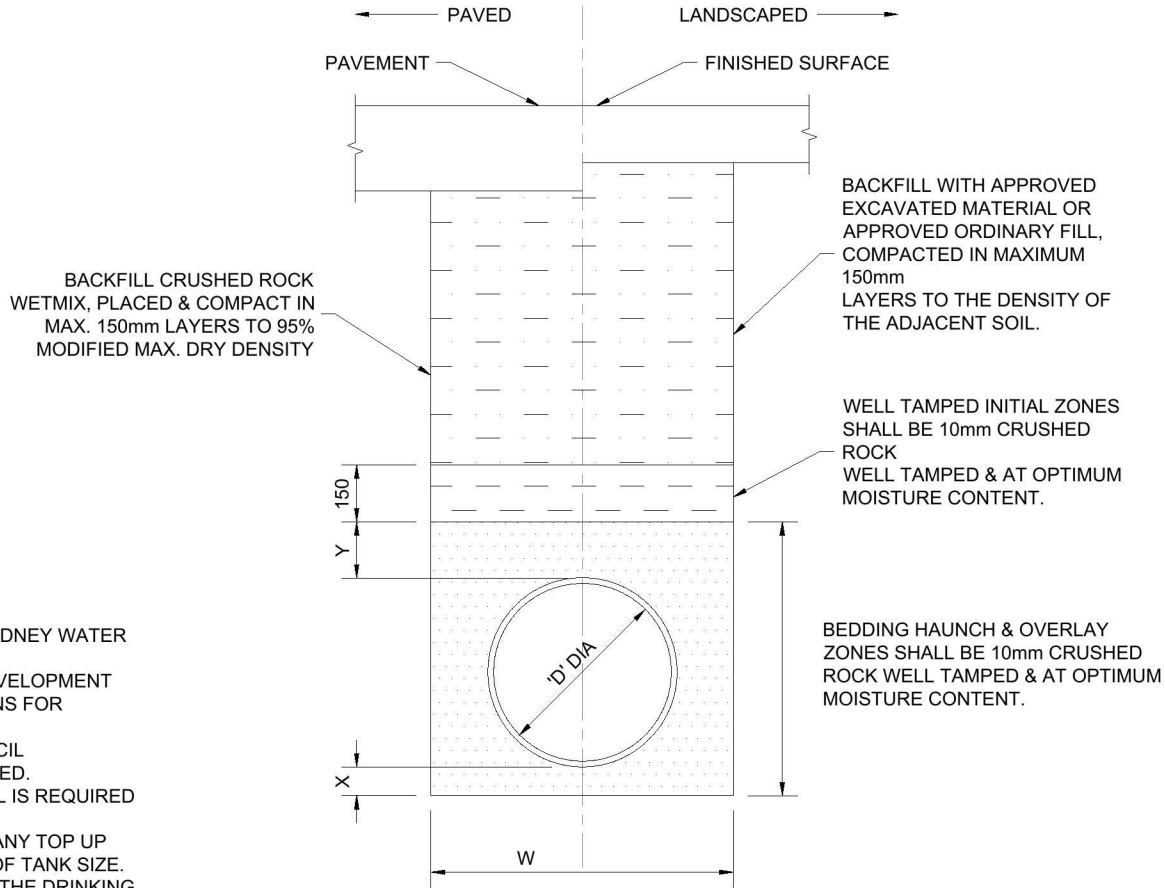
	PRESSURE VESSEL
	METER
	BALL VALVE RIGHT ANGLE TYPE
	DUAL CHECK VALVE
	PUMP
	GARDEN TAP
	DRINKING WATER SUPPLY PIPES
	RAINWATER SUPPLY PIPES
	DOWN PIPES

DIAGRAM NOTES:

- DRAWING TO BE READ IN CONJUNCTION WITH SYDNEY WATER PLUMBING REQUIREMENTS
- FOR TANKS 10,000 LITRES OR LESS, COUNCIL DEVELOPMENT CONSENT IS NOT REQUIRED, IF THEIR CONDITIONS FOR INSTALLATION ARE FOLLOWED.
- FOR TANKS GREATER THAN 10,000 LITRES COUNCIL DEVELOPMENT CONSENT IS GENERALLY REQUIRED.
- FOR TANKS MORE THAN 10,000 LITRES APPROVAL IS REQUIRED FOR BUILDING OVER SEWERS.
- SYDNEY WATER'S APPROVAL IS REQUIRED FOR ANY TOP UP FROM DRINKING WATER SUPPLY, REGARDLESS OF TANK SIZE. NO DIRECT CONNECTION IS ALLOWED BETWEEN THE DRINKING WATER SUPPLY AND THE RAINWATER TANK SUPPLY.
- RAINWATER PIPEWORK IS SHOWN ON THE DIAGRAM AS SUPPLYING INTERNAL AND EXTERNAL RAINWATER USES. CUSTOMERS MAY WANT ONE OR THE OTHER.
- ANY DESIGNED ACCESS LID INTO RAINWATER RE-USE TANK IS TO HAVE A LOCKABLE LID. IF THE LID IS DESIGNED TO BE ACCESSED BY A MAINTENANCE PERSON, IT MUST BE AT LEAST 600 mm x 900 mm IN SIZE.

DUAL DRINKING WATER & RAINWATER SUPPLY DIAGRAM

N.T.S.



NOTE:

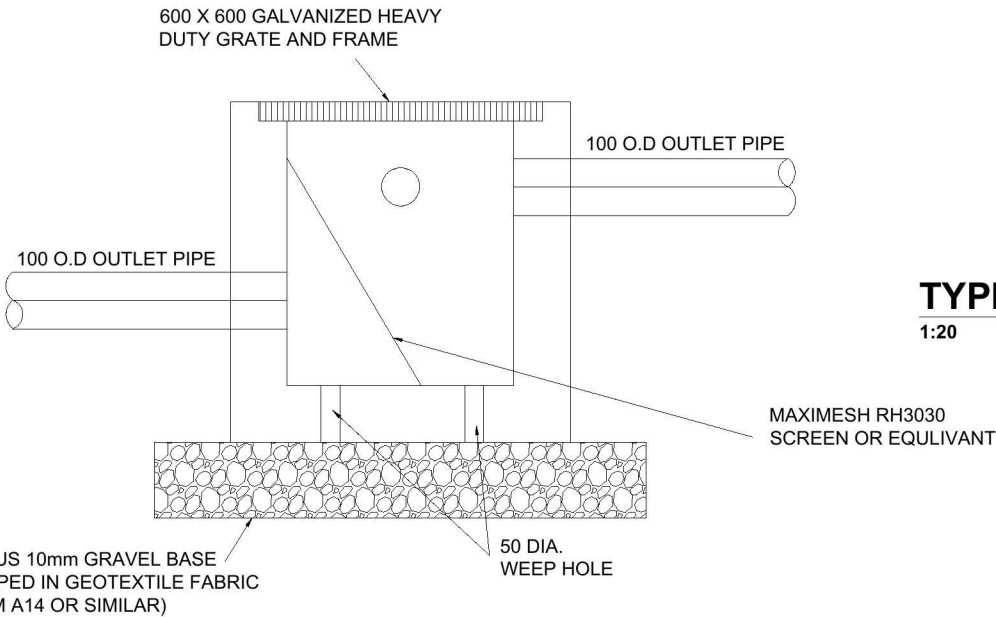
- REFER TO PIPE LAYING SPECIFICATION FOR DETAILS.

PIPE DIA 'D'	W	X MIN	Y
100-150	300	75	75
225-300	600	75	75

UPVC PIPE

TYPICAL PIPE LAYING DETAIL

1:20



TYPICAL SILT ARRESTOR DETAIL

1:20

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A: SUITE 4, LEVEL 1,  
402-410 CHAPEL RD,  
BANKSTOWN, NSW 2200  
P: 1300 868 072 M: 0422 806 228  
E: abraham@nemcodesign.com.au

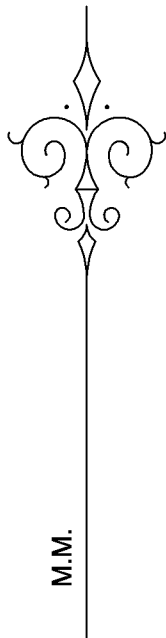
PROPOSED DUAL OCCUPANCY DWELLINGS

3 VALLEYVIEW CRES, WERRINGTON DOWNS  
LOT 7051, DP 260932

STORMWATER DETAILS

JOB NUMBER: 18228	DWG NUMBER: C02	ORIGINAL SIZE: A3
DESIGNED BY: A.N	DATE: 19.06.2018	
DRAWN BY: A.A	SCALE: AS SHOWN	

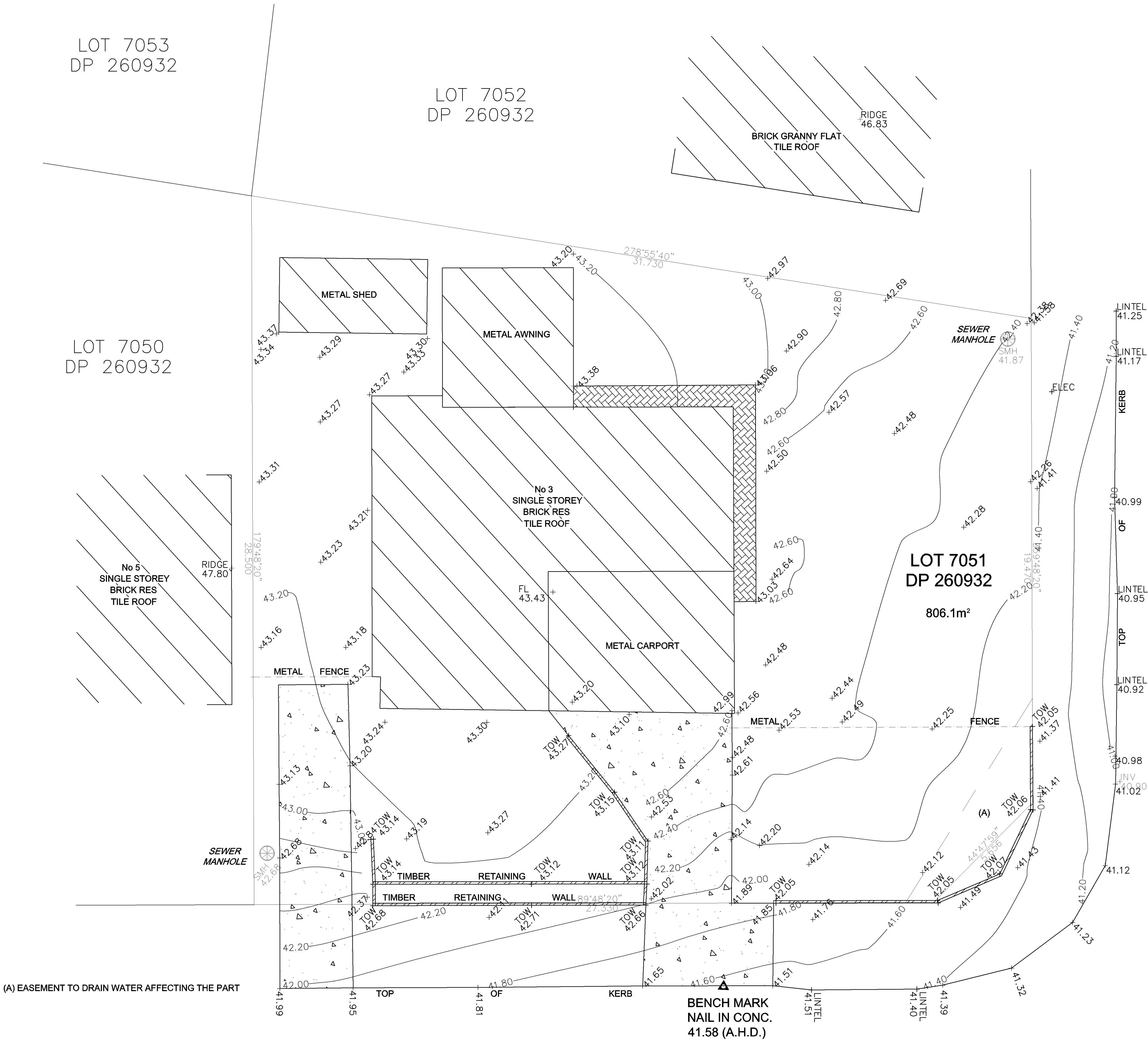




LOT 7053  
DP 260932

LOT 7052  
DP 260932

LOT 7050  
DP 260932



CRESCENT

VALLEYVIEW

NOTE:

- \* THIS PLAN HAS BEEN PREPARED FROM A COMBINATION OF FIELD SURVEY AND EXISTING RECORDS.
- \* THE TITLE BOUNDARIES SHOWN HEREIN HAVE BEEN DETERMINED BY PLAN DIMENSIONS ONLY AND HAVE NOT BEEN VERIFIED BY FIELD MEASUREMENTS
- \* PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITIES SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATION OF ALL SERVICES.
- \* LEVELS SHOWN ARE OF AUSTRALIAN HEIGHT DATUM.
- \* THIS NOTE IS AN INTEGRAL PART OF THE PLAN.

CONTACT 'DIAL BEFORE YOU DIG' Ph. 1100  
PRIOR TO ANY CONSTRUCTION.

**JOHN McDONALD GROUP**  
LAND, ENGINEERING &  
CONSTRUCTION SURVEYORS  
Unit 1, 25 Rodeo Drive Gregory Hills Australia NSW 2570  
POSTAL ADDRESS: P.O. BOX 7124, MT. ANNAN, NSW 2567  
PHONE: (02) 4623 3800  
Email: adam@jmgsurvey.com.au

DATUM AHD  
ORIGIN OF LEVELS SS 44997 R.L 43.44  
CONTOUR INTERVAL 0.200

SCALE 1:100  
SUBURB WERRINGTON DOWNS  
L.G.A. PENRITH

DRAWN MR  
SURVEYED MR  
CHECKED AM

SHEET NO. 1 OF 1 SHEETS

DATE: 17/06/2018

DESCRIPTION  
PLAN SHOWING DETAILS & LEVELS OVER LAND ON  
LOT 7051 IN DP 260932 IN PENRITH L.G.A  
(3 VALLEYVIEW CRESCENT, WERRINGTON DOWNS)

SURVEYORS REFERENCE 180603.DWG

JMG