

Reference
No.: 9005-076

LEVEL ONE

SURVEILLANCE

AND INSPECTION REPORT

*Carried Out
By*



PREPARED FOR: -

SYMON BROS. CONSTRUCTIONS PTY LTD



Table of Contents

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Appendices

Appendix A Construction Drawings

Appendix B Daily Field Compaction Summary Results



Client Name: Symon Bros. Constructions Pty Ltd
Project Name: The Grove South West Precinct Stage 48
Date: 8th of June 2023
Author: Mr. Sam Loza
Reference No.: 9005-076
Revision: 0
Project Manager: Mr. George Dimopoulos

1. Introduction & Scope

At the request of Symon Bros. Constructions Pty Ltd, Geotechnical Laboratories has carried out inspection and testing of the above-mentioned site from the 8th of June 2022 to the 20th of October 2022 where a residential development is being constructed. Inspection and testing of stripping, material quality and compaction control tests were carried out to comply with the requirements of AS 3798 Appendix B, Level 1.

The following documentation was submitted to Geotechnical Laboratories by Symon Bros. Constructions Pty Ltd and was used to determine compliance of earthworks in conjunction with the requirements of AS 3798 – 2007.

- (1) Road and Drainage Layout Plan 2190E-048-111 (Rev. 1)
- (2) Road and Drainage Layout Plan 2190E-048-112 (Rev. 1)

General site works involved the placement of fill, using on-site derived clay, to bring the fill region to the required finished levels as indicated on the faceplan drawings.

2. Site Preparation

Site inspections were undertaken on the 10th of May 2022 confirming that selected areas to be filled were completely stripped of topsoil prior to filling. The brown silty topsoils had been stockpiled around the site for later removal off-site.

Proof roll inspections were performed throughout the project duration to ensure no significant soft areas were present prior to filling.

3. Fill Material

It is understood that the fill material used was sourced from site cut areas.



The fill material is best described as a silty CLAY, brown, red brown, slightly moist to moist, medium to high plasticity with basalt gravels and cobbles.

The fill material is consistent with the naturally occurring soils for this region.

Source material was deemed a **Suitable Material** in accordance with guidelines set out in AS 3798 - 2007 Section 4.4.

4. Fill Construction Procedure

The following plant (but not always limited to) were engaged in the fill placement process:

- Dump trucks & highway trucks
- A watercart
- A sheepsfoot compactor (815)
- Scrapers
- A padfoot roller

The sheepsfoot compactor placed material in horizontal loose layers of approximately 250-300mm. The sheepsfoot compactor also performed compaction of the clay fill operating in a criss-cross pattern.

The moisture condition of the fill was closely monitored, and moisture conditioning procedures were applied to bring the material closer to its Standard Optimum Moisture Content (AS 1289 5.7.1).

5. Compaction Control Testing

Compaction control testing was performed on-site using a Nuclear Densometer in accordance with AS 1289 5.8.1. Laboratory reference densities were determined from material sampled at each test site location using the Hilf Rapid Compaction Method in accordance with AS 1289 5.7.1.

A total of eighty-five compaction tests were performed on the fill construction. Results are presented in Appendix B of this report.

6. Testing Frequency

Testing frequencies were in accordance with **AS 3798 - 2007 Table 8.1** for **Large Scale Operations**.

Acceptance of fill layers for compaction was based on the requirements of **AS 3798 - 2007 Table 5.1 Item 1. Residential**.



As a result, the compliance criteria adopted by Geotechnical Laboratories was a hilt density ratio not less than 95 percent of the maximum hilt density value as determined by the Standard Hilt Rapid Compaction Method in accordance with AS 1289 5.7.1.

Test results indicate that the above-mentioned requirements have been successfully achieved.

No moisture criteria was specified.

7. Statement of Compliance

So far as can be determined, Symon Bros. Constructions Pty Ltd has satisfactorily complied with the compaction and construction processes required for the structural filling of this site. As such, structural filling placed on this site by Symon Bros. Constructions Pty Ltd from the 8th of June 2022 to the 20th of October 2022 can be categorised as CONTROLLED FILL in accordance with AS 2870-2011.

8. Limitations and Liability of this Report

This report has been produced for and remains the property of Symon Bros. Constructions Pty Ltd.

The release of this report to a third party will only occur if Geotechnical Laboratories Pty Ltd has received, in writing, the authority to do so by our client.

Geotechnical Laboratories Pty Ltd will not engage in any third-party communication regarding this report.

Where information has been supplied by the client or third party, the assumption is made that this is correct. Geotechnical Laboratories Pty Ltd will not be held responsible for any inaccuracies supplied.

Test results and controlled fill compliance relates only to fill placed by Symon Bros. Constructions Pty Ltd and for earthworks completed at the time of inspection and testing. Any previous or subsequent earthworks will require a separate evaluation.

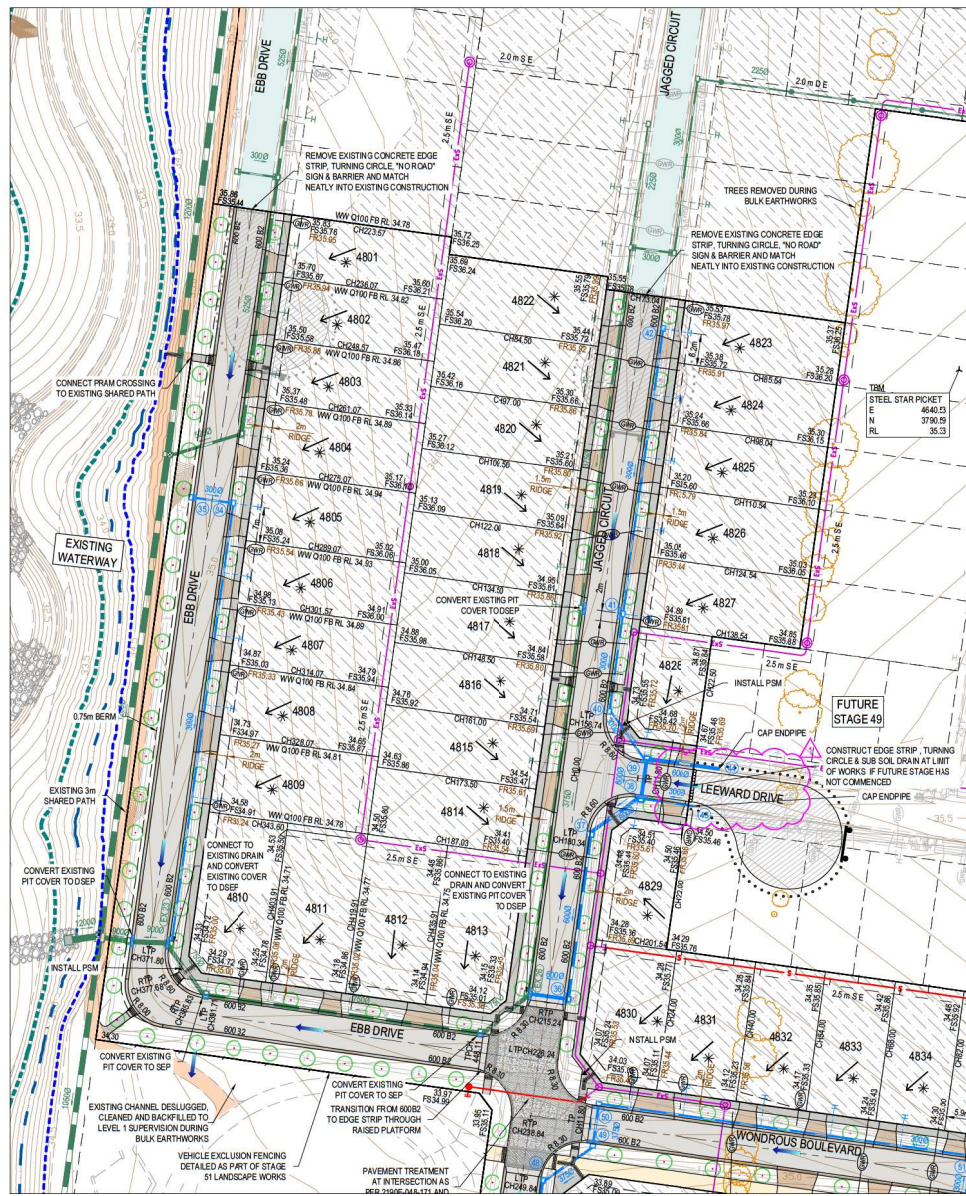
For & on behalf of
Geotechnical Laboratories Pty Ltd.

Sam Loza
Laboratory Manager.

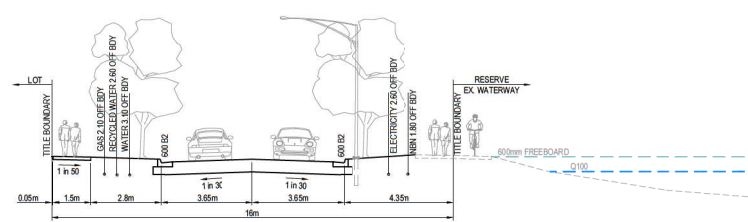


LEVEL ONE
SURVEILLANCE
AND INSPECTION REPORT

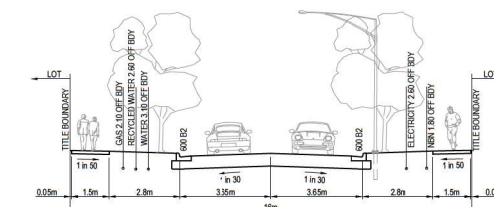
APPENDIX A



REFER SHEET 2190E-048-112 FOR CONTINUATION



16m ACCESS STREET
EBB DRIVE
ACCESS PLATE/ ACCESS STREET LEVEL 1- RESIDENTIAL



16m ACCESS STREET
JAGGED CIRCUIT & LEeward DRIVE
ACCESS PLATE/ ACCESS STREET LEVEL 1- RESIDENTIAL

LEGEND - LAYOUT PLAN
ALL PROPOSED FUTURE & EXISTING SERVICES LOCATIONS ARE SHOWN INDICATIVELY

- STORMWATER DRAIN FIT & PROPERTY INLET
- MAIN DRAIN
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- ELECTRICITY (U/GROUND)
- ELECTRICITY (O/HEAD)
- GAS
- TELSTRA
- OPTIC FIBRE
- WATER
- RECYCLE WATER
- AG DRAIN
- SERVICE CONDUITS
- EXISTING STORMWATER DRAIN
- EXISTING MAIN DRAIN
- EXISTING SWALE DRAIN
- EXISTING SEWER & MAINTENANCE STRUCTURES
- EXISTING HOUSE DRAIN
- EXISTING ELECTRICITY (UNDER GROUND)
- EXISTING ELECTRICITY OVERHEAD
- EXISTING GAS
- EXISTING TELSTRA
- EXISTING OPTIC FIBRE
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING AG DRAIN
- EXISTING SERVICE CONDUITS
- EXISTING TACTILE PAVERS
- FUTURE STORMWATER DRAIN
- FUTURE MAIN DRAIN
- FUTURE SWALE DRAIN
- FUTURE SEWER & MAINTENANCE STRUCTURES
- FUTURE HOUSE DRAIN
- FUTURE ELECTRICITY (UNDER GROUND)
- FUTURE ELECTRICITY OVERHEAD
- FUTURE GAS
- FUTURE TELSTRA
- FUTURE OPTIC FIBRE
- FUTURE WATER
- FUTURE RECYCLED WATER
- FUTURE AG DRAIN
- FUTURE SERVICE CONDUITS
- FUTURE TACTILE PAVERS
- ZERO LOT LINES
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- CHANNAGE
- TOP OF RETAINING WALL LEVEL
- BOTTOM OF RETAINING WALL LEVEL
- EXISTING RETAINING WALL
- RETAINING WALL
- FUTURE RETAINING WALL
- STRUCTURAL FILL > 200mm DEEP
- EXISTING STRUCTURAL FILL > 200mm DEEP
- CUT > 200mm DEEP
- DIRECTION OF FALL
- GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
- EDGE STRIP SUBSOIL DRAIN 'NO ROAD' SIGN & BARRIER
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- PROPOSED TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY FOOTPATH
- PROPOSED INDUSTRIAL DRIVEWAY
- PROPOSED SHARED FOOTPATH
- PROPOSED ROAD PAVING
- EXISTING SHARED FOOTPATH
- EXISTING ROAD PAVING
- WERRIBEE RIVER Q100
- WATERWAY Q100

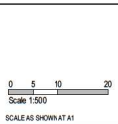
NOTE

- LEVELS AND STRUCTURAL HATCHING DENOTED ON LOTS ARE DERIVED FROM THE 'NATURAL' SURFACE. CONTOURS SHOWN ON SHEET PLAN ARE FROM 'EXISTING SURFACE' IE: AFTER BULK EARTHWORKS.
- THE TREE LOCATIONS AND NUMBER OF TREES SHOWN ARE INDICATIVE ONLY AND WILL BE FINALISED AS PART OF THE LANDSCAPE PLANS

WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works. **DIAL 1100 BEFORE YOU DIG**
www.1100.com.au

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	10.02.22	ISSUED FOR CONSTRUCTION	E. GLASSON	K. GRANADA	K. CONG	P. SHELLE
1	25.01.00	FRUIT CIRCUIT AMENDED TO LEeward DRIVE	K. GRANADA	K. GRANADA	N. FREEMAN	P. SHELLE

ISSUED FOR CONSTRUCTION



SMEC

 Member of the Surlana Jurong Group

 Collins Square, Tower 4, Level 20, 722 Collins St

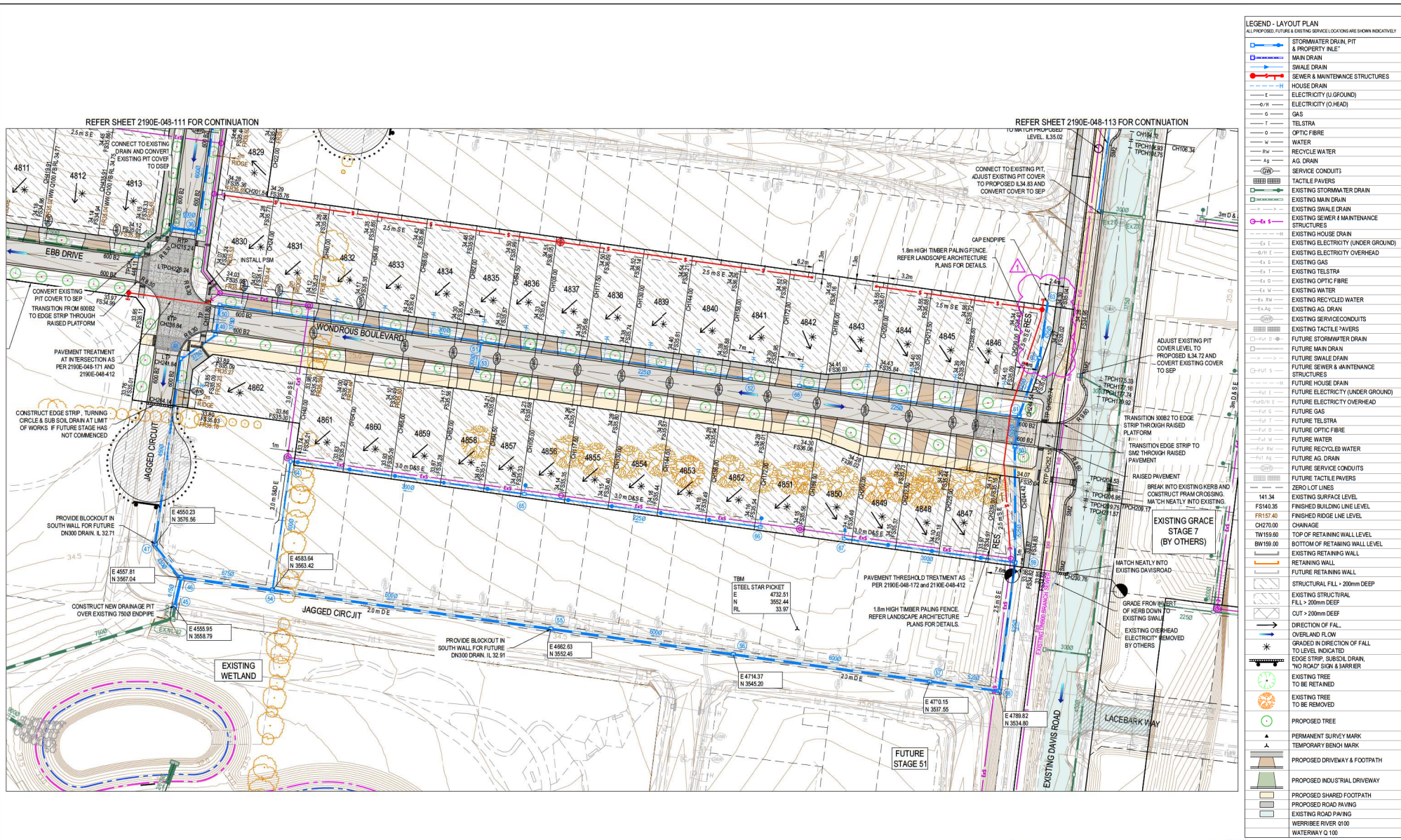
 Melbourne, VIC 3008

 Ph 03 9614 1900

FRASERS PROPERTY

The Grove West - Stage 48
 Wyndham City Council
 Road and Drainage
 Layout Plan - 1

MEASUREMENT: 234 F9
 PROJECT ID: 2190E-048-111
 SHEET NO: 02 of 27
 REVISION: 1



LEGEND - LAYOUT PLAN
ALL PROPOSED FUTURE AND EXISTING SERVICES LOCATIONS ARE SHOWN INDICATIVELY

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MAIN DRAIN
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- ELECTRICITY (U/G FLOOR)
- ELECTRICITY (O/HEAD)
- GAS
- TELSTRA
- OPTIC FIBRE
- WATER
- RECYCLE WATER
- AG DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS
- EXISTING STORMWATER DRAIN
- EXISTING MAIN DRAIN
- EXISTING SWALE DRAIN
- EXISTING SEWER & MAINTENANCE STRUCTURES
- EXISTING HOUSE DRAIN
- EXISTING ELECTRICITY (UNDER GROUND)
- EXISTING ELECTRICITY OVERHEAD
- EXISTING GAS
- EXISTING TELSTRA
- EXISTING OPTIC FIBRE
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING AG DRAIN
- EXISTING SERVICE CONDUITS
- EXISTING TACTILE PAVERS
- FUTURE STORMWATER DRAIN
- FUTURE SWALE DRAIN
- FUTURE SEWER & MAINTENANCE STRUCTURES
- FUTURE HOUSE DRAIN
- FUTURE ELECTRICITY (UNDER GROUND)
- FUTURE ELECTRICITY OVERHEAD
- FUTURE GAS
- FUTURE TELSTRA
- FUTURE OPTIC FIBRE
- FUTURE WATER
- FUTURE RECYCLED WATER
- FUTURE AG DRAIN
- FUTURE SERVICE CONDUITS
- FUTURE TACTILE PAVERS
- FUTURE LOT LINES
- FINISHED SURFACE LEVEL
- FS140.35
- FINISHED RIDGE LINE LEVEL
- FR157.40
- CHANGE
- CH700.00
- TOP OF RETAINING WALL LEVEL
- TW159.00
- BOTTOM OF RETAINING WALL LEVEL
- BM159.00
- EXISTING RETAINING WALL
- RETAINING WALL
- FUTURE RETAINING WALL
- STRUCTURAL FILL - 200mm DEEP
- EXISTING STRUCTURAL FILL - 200mm DEEP
- CHANGE
- OUT - 200mm DEEP
- DIRECTION OF FAL
- OVERLAND FLOW
- GRADED DIRECTION OF FALL TO LEVEL INDICATED
- EDGE STRIP SURFACE DRAIN "NO ROAD" SIGN & BARRIER
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- PROPOSED TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY & FOOTPATH
- PROPOSED INDUSTRIAL DRIVEWAY
- PROPOSED SHARED FOOTPATH
- PROPOSED ROAD PAVING
- EXISTING ROAD PAVING
- WERRIBEE RIVER Q100
- WATERWAY Q 100

NOTES:
DAVIS ROAD UPGRADES TO BE CONSTRUCTED IN CONJUNCTION WITH STAGE 48 WORKS.
THE TREE LOCATIONS AND NUMBER OF TREES SHOWN ARE INDICATIVE ONLY AND WILL BE FINALISED AS PART OF THE LANDSCAPE PLANS

WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
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DIAL 1100 BEFORE YOU DIG
www.1100.org.au

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	10.02.22	ISSUED FOR CONSTRUCTION	E GLASSON	E GLASSON	K CONG	P SHELLIE
1	04.03.22	DRAIN 62 - 63 AMENDED	E GLASSON	E GLASSON	N FREEMAN	P SHELLIE

Global Mark.com.au

Global Mark.com.au

Global Mark.com.au

ISSUED FOR CONSTRUCTION

PLAN OF SUB. NO
844183G

PERMIT REF. NO.
WYP1105176

Scale 1:500
SCALE AS SHOWN AT A1

SMC

Member of the Surlana Jurong Group
ABN 47 065 475 149

Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9614 1900

FRASERS PROPERTY

THE GROVE WEST - STAGE 48
WYNDHAM CITY COUNCIL
Road and Drainage
Layout Plan - 2

METAFILE REF 234 F9	PROJECT IDENTIFICATION 2190E-048-112	SHEET NO 03 of 27	REVISION 1
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LEVEL ONE
SURVEILLANCE
AND INSPECTION REPORT

APPENDIX B



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/001

LOCATION: SYMON BROS - The Grove - South West Precinct - Stage 48 & 49

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
8/06/22	1	<i>Refer to #9005/002 for approx. test site locations.</i>	1.91	21.0	98.5	✘ 1.94	23.0	175	2.0 Drier	90.5	5	0	400	
8/06/22	2		1.91	23.5	98.0	1.94	23.0	175	0.5 Wetter	102.0	0	0	400	
8/06/22	3		1.94	20.5	101.0	1.92	23.0	175	2.0 Drier	90.5	0	0	400	
8/06/22	4		1.87	25.0	95.0	✘ 1.97	23.0	175	2.0 Wetter	108.5	4	0	400	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 12:30pm Finish Time: 1:15pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD



Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 10/6/2022



Breese Pitt Dixon Pty Ltd
 1/19 Gato Street
 Hawthorn East Vic 3123
 PH: 8823 2300 Fax: 8823 2310
 www.bpd.com.au info@bpd.com.au

SCALE

1:500

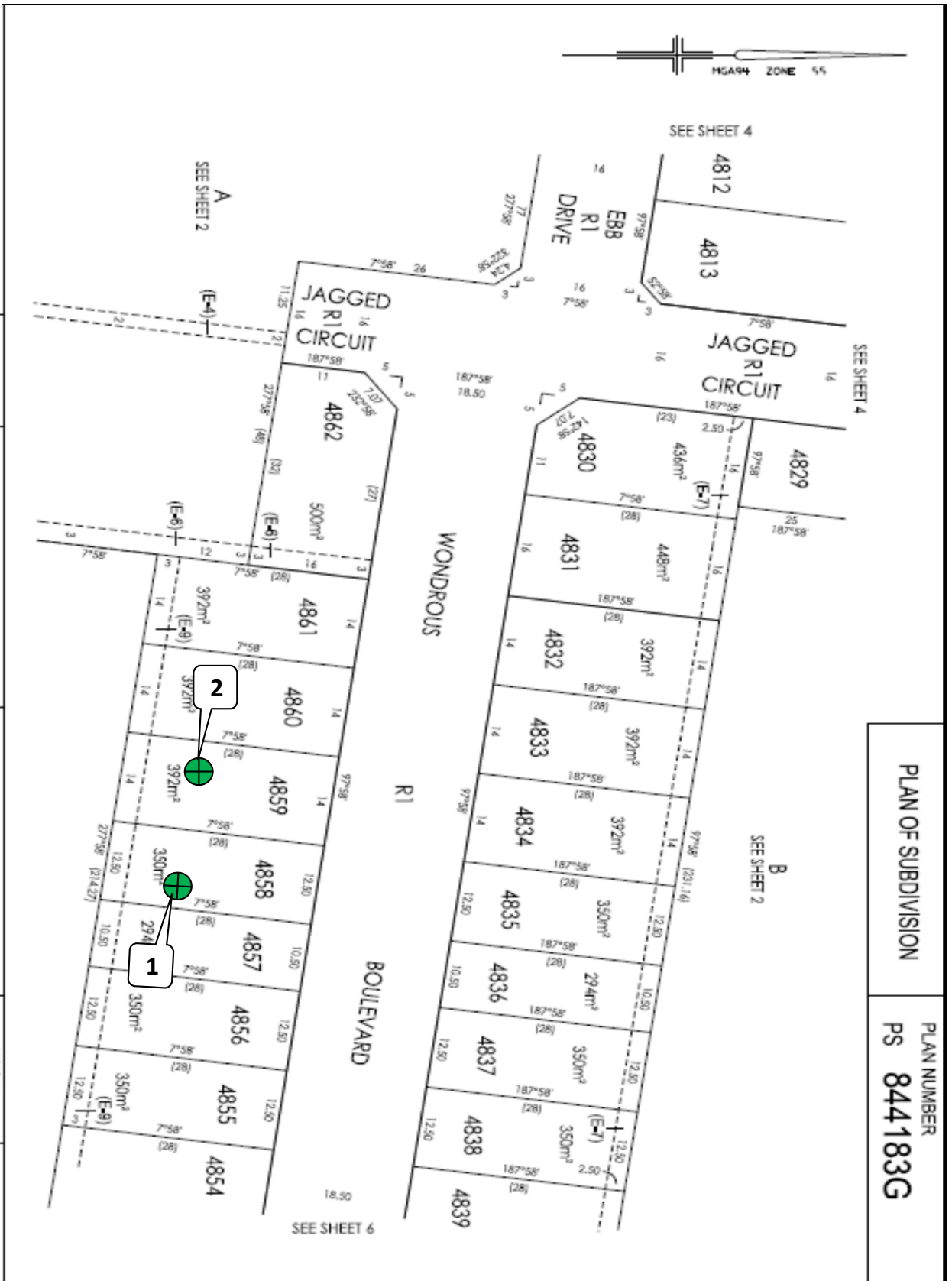


REF: 8352/48
 LICENSED SUPERVISOR: SIMON COX

VERSION: 4

ORIGINAL SHEET SIZE A3

SHEET 5



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

DATE: 08/06/2022

JOB No.: 9005/002

LOCATION: The Grove South West Precinct, Stage 48

OPERATOR: PV

CHECKED: DM

Sketch indicating compaction test locations

SCALE: NTS

FIGURE No: 1 of 2

PLAN OF SUBDIVISION
 PLAN NUMBER
 PS 844185C



REF: 8352149	VERSION: 5	SHEET 4
LICENSED SURVEYOR: SIMON COX		
<p>LENGTHS ARE IN METRES</p>		
SCALE		1:500
Breese Pitt Dixon Pty Ltd 1/19 Cato Street Hawthorn East Vic 3123 PH: 8823 2300 Fax: 8823 2310 www.bpd.com.au info@bpd.com.au		



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
 ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 49
 Sketch indicating compaction test locations

DATE: 08/06/2022
OPERATOR: PV
SCALE: NTS

JOB No.: 9005/002
CHECKED: DM
FIGURE No: 2 of 2

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48	VERSION: 4	ORIGINAL SHEET SIZE: A3	SHEET 6
LISCENCED SURVEYOR: SIMON COX		SCALE	
BREESSE PITT DIXON PTY LTD 1719 CALD STREET HAWTHORN EAST VIC 3123 PH: 8623 2300 FAX: 8623 2310		1:500	



GEOTECHNICAL LABORATORIES

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ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48

Sketch indicating compaction test locations

DATE: 17/06/2022

JOB No.: 9005/005

OPERATOR: BM

CHECKED: KK

SCALE: NTS

FIGURE No: 1 of 2

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



see Pitt Dixon Pty Ltd
1/19 Cato Street
Melbourn East Vic 3123
823 2300 Fax: 8623 2310

SCALE
1:500



REF: 8352/48 VERSION: 4
LICENSED SURVEYOR: SIMON COX

ORIGINAL SHEET SIZE A3
SHEET 5



GEOTECHNICAL LABORATORIES

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ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48

Sketch indicating compaction test locations

DATE: 17/06/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9005/005

CHECKED: KK

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/006

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 50

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
21/06/22	8	<i>Refer to #9005/007 for approx. test site locations.</i>	1.99	20.0	104.5	1.91	22.5	175	3.0 Drier	87.5	0	0	300
21/06/22	9		1.97	26.0	98.5	✘ 1.99	24.0	175	2.0 Wetter	107.5	5	0	0
21/06/22	10		1.91	25.0	96.0	1.98	24.0	175	0.5 Wetter	103.0	0	0	0
21/06/22	11		1.98	21.0	103.0	1.93	23.0	175	2.5 Drier	89.5	0	0	1000
21/06/22	12		1.93	21.5	101.5	1.90	24.0	175	2.5 Drier	89.0	0	0	1000
21/06/22	13		1.93	20.5	98.5	✘ 1.96	23.0	175	2.0 Drier	90.5	5	0	1000

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 1:10pm Finish Time: 2:20pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD





*Accredited for compliance with ISO/IEC
 17025 - Testing*

NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

Issue Date: 23/6/2022



 Breese Pitt Dixon Pty Ltd 1/19 Cato Street Hawthorn East Vic 3123 Ph: 8823 2300 Fax: 8823 2310	SCALE 1:500	 LENGTHS ARE IN METRES	ORIGINAL SHEET SIZE A3	SHEET 2
	LICENSED SURVEYOR: SIMON COX		REF: 8352/50	VERSION: 5



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS LOCATION: The Grove South West Precinct, Stage 48 & 50 Sketch indicating compaction test locations	DATE: 21/06/2022	JOB No.: 9005/007
	OPERATOR: BM	CHECKED: KK
	SCALE: NTS	FIGURE No: 1 of 3

PLAN NUMBER
PS 844183

PLAN OF SUBDIVISION



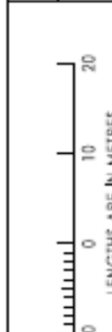
SEE SHEET 4

SEE SHEET 4

ORIGINAL SHEET SIZE A3

VERSION: 4
LICENSED SURVEYOR: SIMON COX

REF: 8352/48



SCALE
1:500

Breese Pitt Dixon Pty Ltd
1/19 Cain Street
Hawthorn East, Vic. 3123
Ph: 8823 2300 Fax: 8823 2310



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 50

Sketch indicating compaction test locations

DATE: 21/06/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9005/007

CHECKED: KK

FIGURE No: 2 of 3

PLAN NUMBER
PS 84418

PLAN OF SUBDIVISION



REF: 8352/48
VERSION: 4
LICENSED SURVEYOR: SIMON COX



SCALE 1:500
Breese Pitt Dixon Pty Ltd
1/19 Cato Street
Hawthorn East Vic 3123
PH: 8823 2341 FAX: 8823 2310



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 50

Sketch indicating compaction test locations

DATE: 21/06/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9005/007

CHECKED: KK

FIGURE No: 3 of 3



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/008

LOCATION: SYMON BROS - The Grove SWP - Stage 48 & 49

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
23/06/22	14	<i>Refer to #9005/009 for approx. test site locations.</i>	2.02	27.5	102.5	✘ 1.97	25.5	175	2.0 Wetter	108.0	6	0	-	
23/06/22	15		2.00	26.0	101.0	✘ 1.98	23.5	175	2.5 Wetter	110.5	4	0	-	
23/06/22	16		1.90	23.0	96.0	✘ 1.98	21.5	175	1.0 Wetter	105.5	5	0	-	
23/06/22	17		2.03	24.0	102.5	✘ 1.97	24.0	175	0.0 Drier	100.0	4	0	-	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time:12:50pm Finish Time:1:50pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD



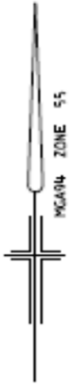
Accredited for compliance with ISO/IEC

17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 29/6/2022



A
SEE SHEET 2

SEE SHEET 4

SEE SHEET 4



Breese Pitt Dixon Pty Ltd
1/19 Calo Street
Hawthorn East Vic 3123
Ph: 8823 2300 Fax: 8823 2310
www.bpd.com.au info@bpd.com.au

SCALE

1:500



LENGTHS ARE IN METRES

ORIGINAL SHEET SIZE A3

SHEET 3

REF: 8352/49

VERSION: 5

LICENSED SURVEYOR: SIMON COX



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 49

Sketch indicating compaction test locations

DATE: 23/06/2022

OPERATOR: WS

SCALE: NTS

JOB No.: 9005/009

CHECKED: DM

FIGURE No: 1 of 2



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 1/19 Colo Street
 Hawthorn East Vic 3123
 Ph: 8823 2300 Fax: 8823 2310
 www.bpd.com.au info@bpd.com.au

SCALE

1:500



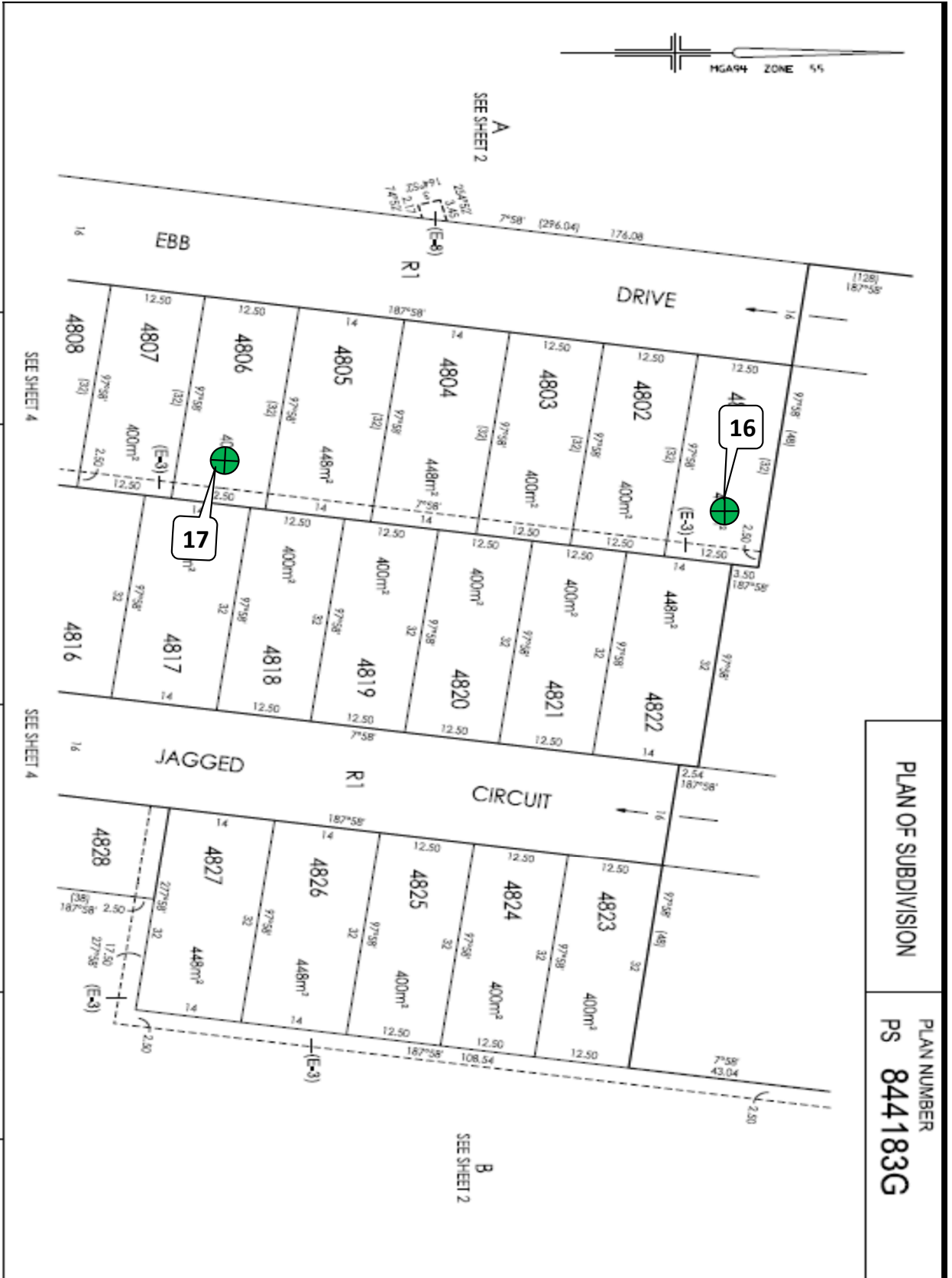
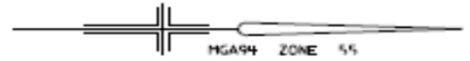
REF: 8352/48

VERSION: 4

LICENSED SURVEYOR: SIMON COX

SHEET SIZE A3

SHEET 3



PLAN OF SUBDIVISION

PLAN NUMBER
PS 844183G



**GEOTECHNICAL
 LABORATORIES**

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 49

Sketch indicating compaction test locations

DATE: 23/06/2022

OPERATOR: WS

SCALE: NTS

JOB No.: 9005/009

CHECKED: DM

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9006/020

LOCATION: SYMON BROS - The Grove SWP - Stage 49/48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
29/06/22	25	<i>Refer to #9006/021 for approx. test site locations.</i>	1.95	20.0	100.5	1.94	22.0	175	2.5 Drier	89.0	0	0	300	
29/06/22	26		1.98	20.5	98.0	2.02	19.5	175	0.5 Wetter	103.5	0	0	300	
29/06/22	27		1.91	27.0	96.5	1.98	23.5	175	3.5 Wetter	115.0	0	0	0	
29/06/22	28		1.85	23.5	96.5	✱ 1.92	23.5	175	0.0 Wetter	101.0	3	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 1:20pm Finish Time:2:15pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✱ Indicates APCWD

❖

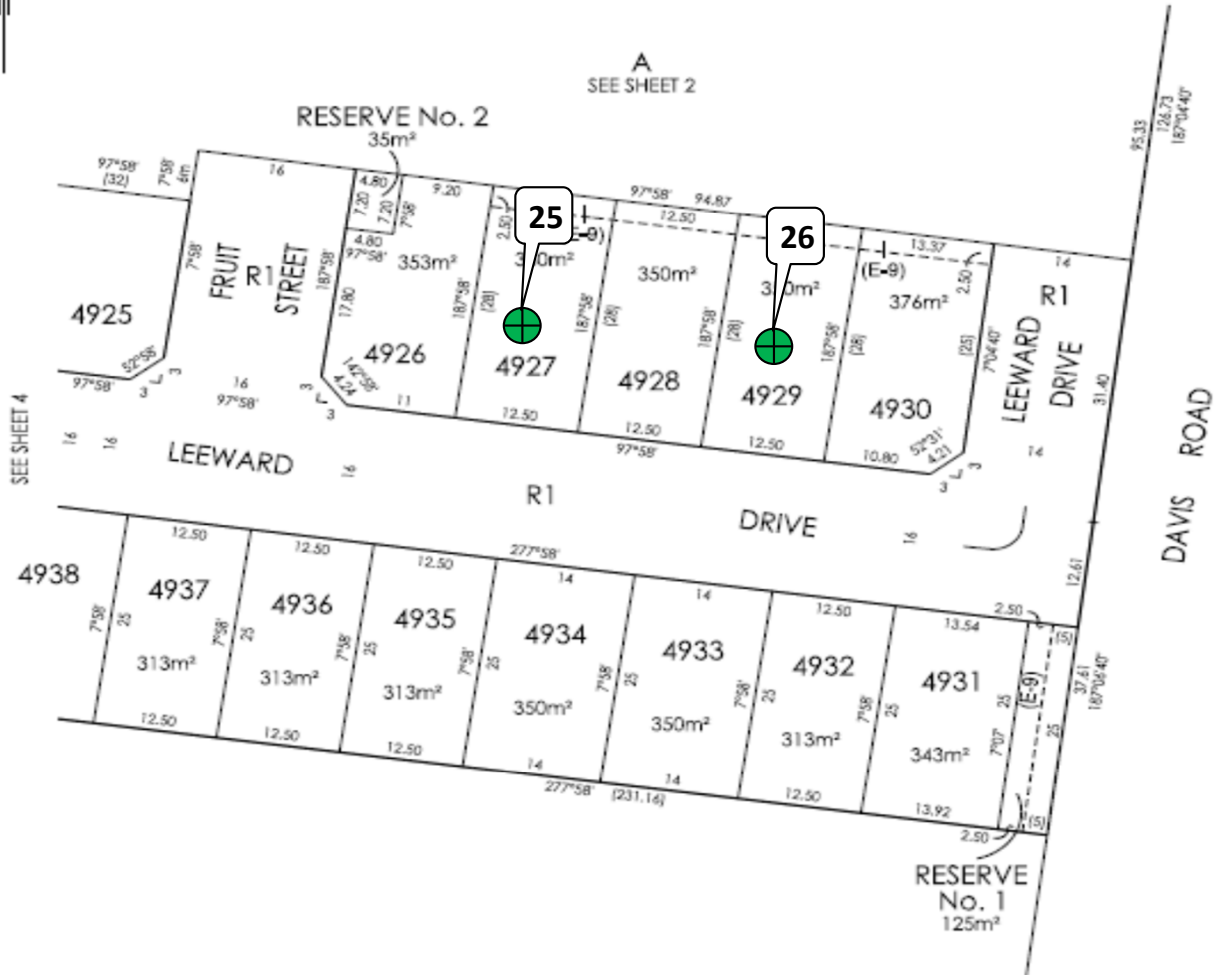


Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

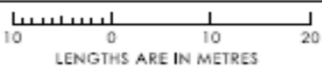
Issue Date: 7/7/2022



Breese Pitt Dixon Pty Ltd
1/19 Calo Street
Hawthorn East Vic 3123
Ph: 8823 2300 Fax: 8823 2310
www.bpd.com.au info@bpd.com.au

SCALE

1:500



ORIGINAL SHEET SIZE A3

SHEET 5

REF: 8352/49

VERSION: 5

LICENSED SURVEYOR: SIMON COX



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

DATE: 29/06/2022

JOB No.: 9006/021

LOCATION: The Grove South West Precinct, Stage 49 & 48

OPERATOR: VN

CHECKED: DM

Sketch indicating compaction test locations

SCALE: NTS

FIGURE No: 1 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/010

LOCATION: SYMON BROS - The Grove SWP - Stage 48 & 49

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
5/07/22	18	<i>Refer to #9005/011 for approx. test site locations.</i>	2.07	23.5	106.0	1.95	23.5	175	0.0 Drier	100.0	0	0	600	
5/07/22	19		1.97	22.0	101.0	1.95	22.5	175	0.5 Drier	98.0	0	0	800	
5/07/22	20		2.06	24.0	105.5	1.95	24.5	175	0.0 Drier	99.0	0	0	800	
5/07/22	21		2.08	24.0	105.0	1.99	23.0	175	1.0 Wetter	104.5	0	0	800	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 8:45am Finish Time:9:45am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



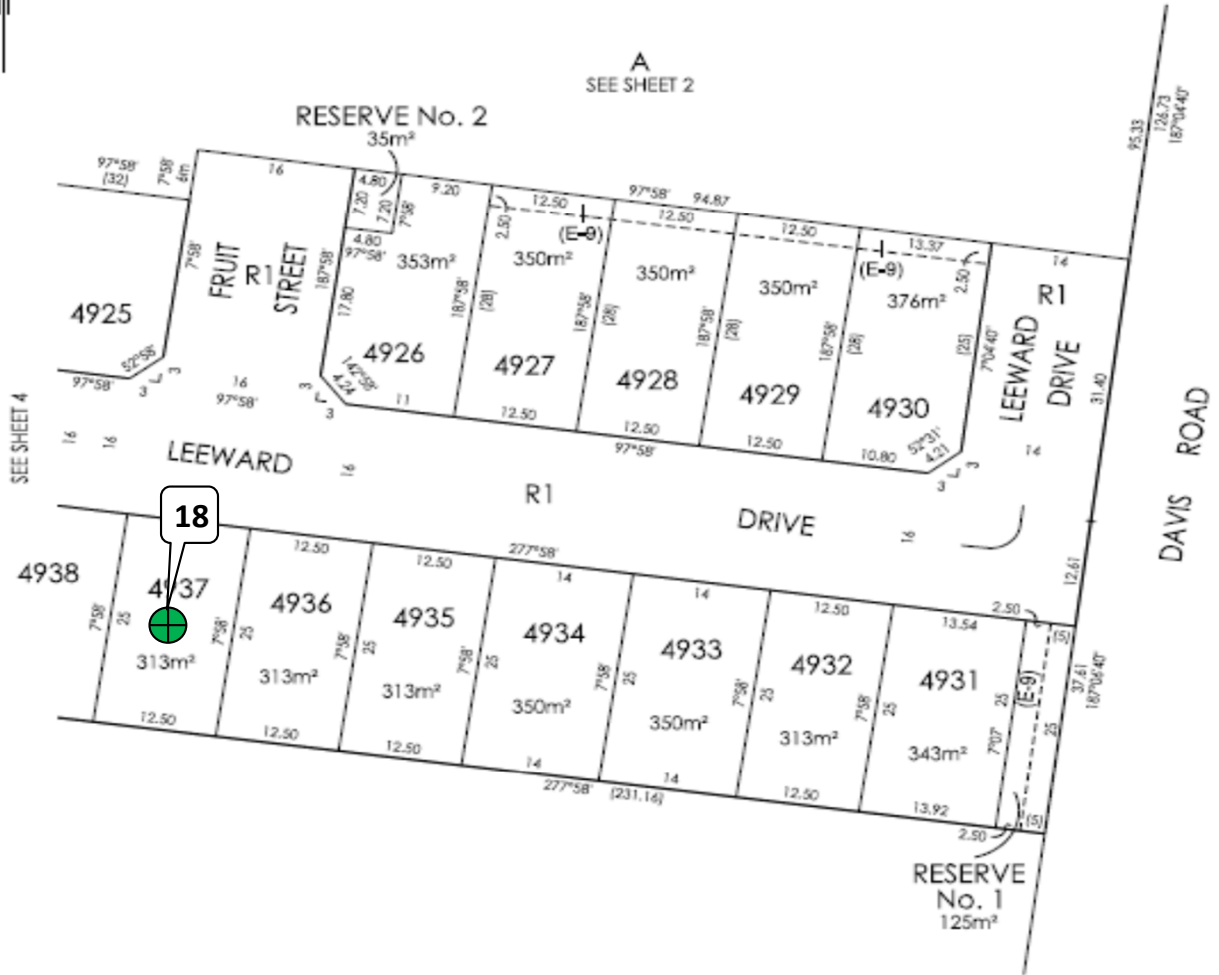
Accredited for compliance with ISO/IEC

17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

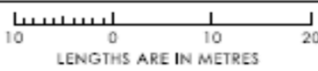
Issue Date: 11/7/2022



Breese Pitt Dixon Pty Ltd
1/19 Calo Street
Hawthorn East Vic 3123
Ph: 8823 2300 Fax: 8823 2310
www.bpd.com.au info@bpd.com.au

SCALE

1:500



ORIGINAL SHEET SIZE A3
REF: 8352/49

SHEET 5
VERSION: 5

LICENSED SURVEYOR: SIMON COX



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

DATE: 05/07/2022

JOB No.: 9005/011

LOCATION: The Grove South West Precinct, Stage 48 & 49

OPERATOR: BM

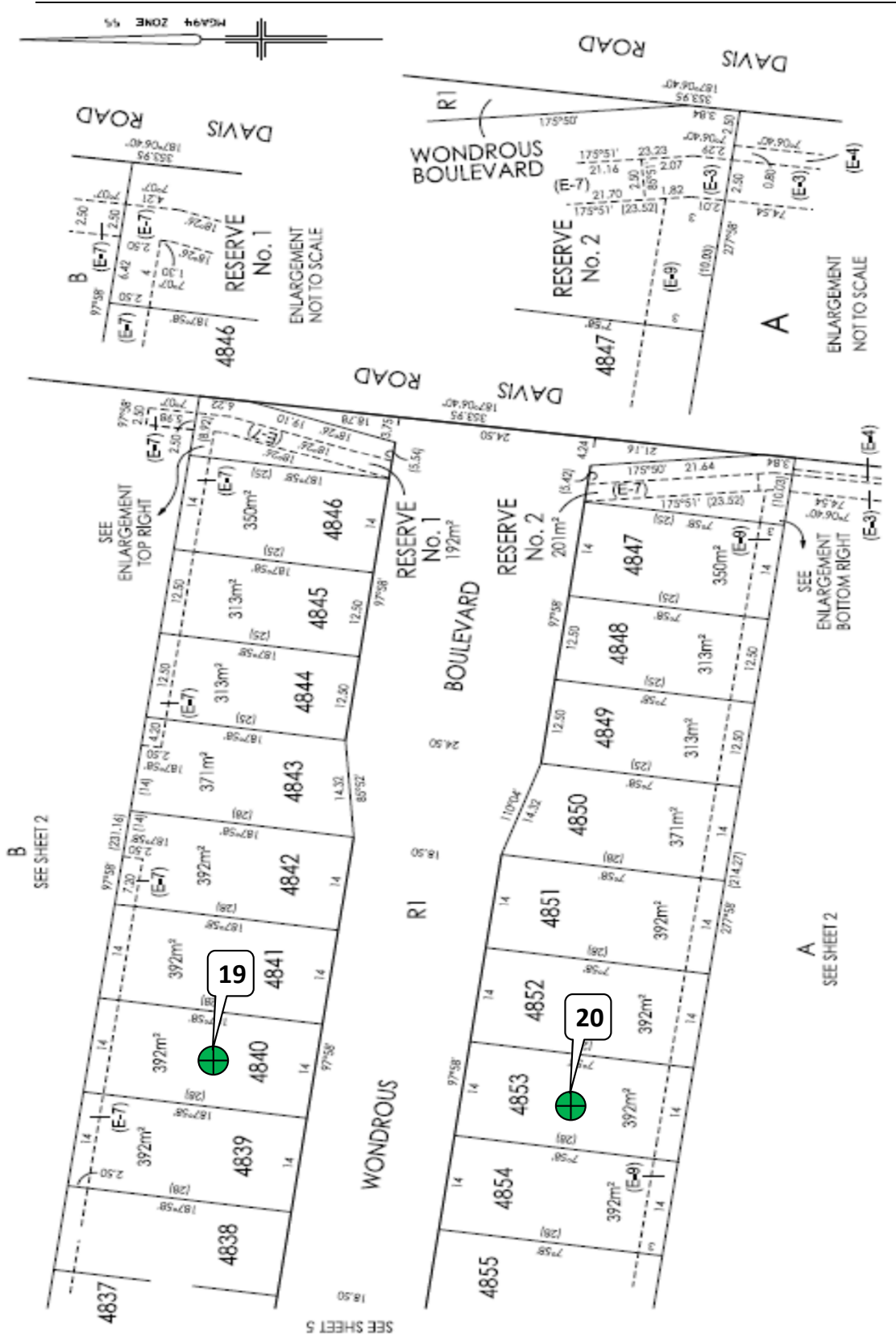
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Sketch indicating compaction test locations

SCALE: NTS

FIGURE No: 1 of 3

PLAN OF SUBDIVISION
 PLAN NUMBER
 PS 844183G



REF: 8352148	VERSION: 4	SHEET 6
LICENSED SURVEYOR: SIMON COX		
SCALE 1:500		
Breese Pitt Dixon Pty Ltd 1/19 Cato Street Hawthorn East, Vic. 3123 PH: 8623 2300 Fax: 8623 2310 www.bpd.com.au info@bpd.com.au		

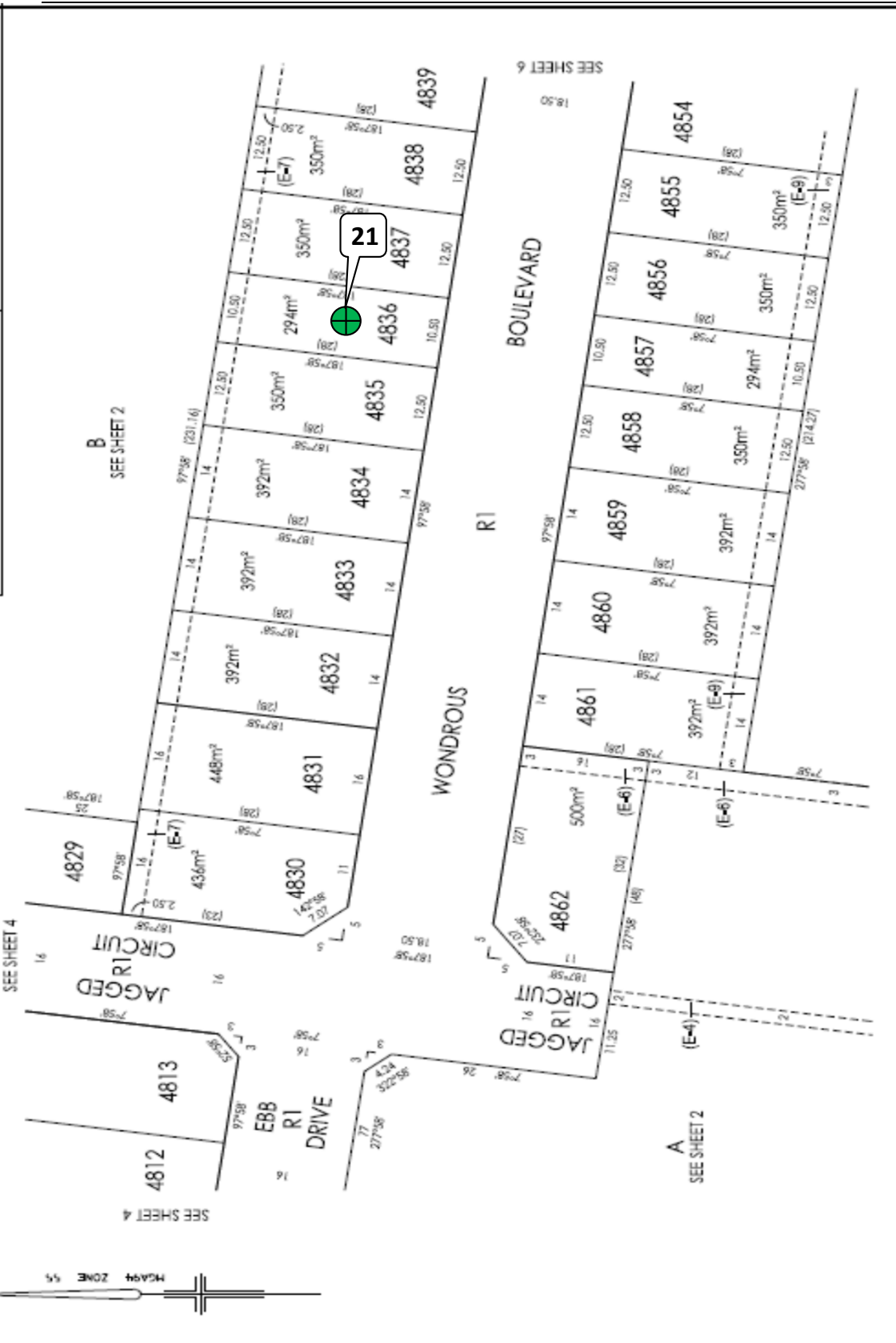


GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 48 & 49
 Sketch indicating compaction test locations

DATE: 05/07/2022
OPERATOR: BM
SCALE: NTS
JOB No.: 9005/011
CHECKED: DM
FIGURE No: 2 of 3

PLAN OF SUBDIVISION
 PLAN NUMBER
 PS 844183G



REF: 8352/48	VERSION: 4	ORIGINAL SHEET SIZE: A3	SHEET 5
LICENSED SURVEYOR: SIMON COX			
 LENGTHS ARE IN METRES			
SCALE 1:500			
 Breese Pitt Dixon Pty Ltd 1719 Cato Street Hawthorn East, Vic 3123 Ph: 8823 2300 Fax: 8823 2310 www.bpd.com.au info@bpd.com.au			



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 48 & 49
Sketch indicating compaction test locations

DATE: 05/07/2022
OPERATOR: BM
SCALE: NTS

JOB No.: 9005/011
CHECKED: DM
FIGURE No: 3 of 3



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9002/012

LOCATION: SYMON BROS - The Grove SWP - Stage 45 & 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
6/07/22	16	<i>Refer to #9002/013 for approx. test site locations.</i>	1.92	20.5	97.0	✘ 1.97	21.5	175	1.0 Drier	95.5	3	0	200	
6/07/22	17		1.87	24.0	96.5	✘ 1.94	23.0	175	1.0 Wetter	105.5	3	0	300	
6/07/22	18		1.99	22.5	101.0	1.97	22.5	175	0.0 Wetter	101.0	0	0	400	
6/07/22	19		2.02	20.5	104.0	1.94	22.5	175	2.0 Drier	91.5	0	0	600	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 9:45am Finish Time:11:10am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD

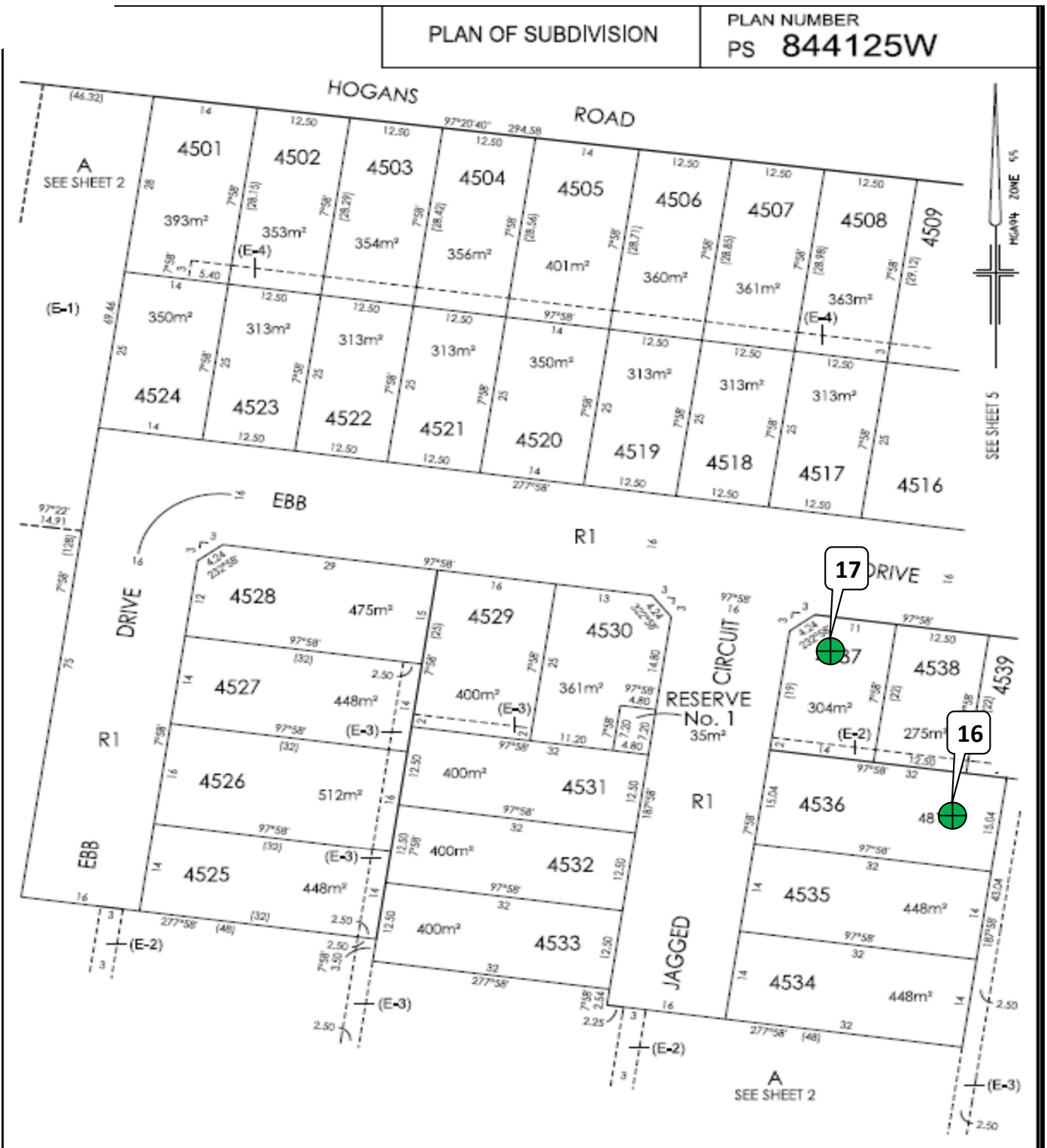


Accredited for compliance with ISO/IEC 17025 - Testing

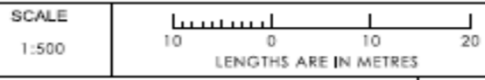
NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

Issue Date: 12/7/2022



Breese Pitt Dixon Pty Ltd
1/19 Calo Street
Hawthorn East Vic 3123
Ph: 8823 2300 Fax: 8823 2310
www.bpd.com.au info@bpd.com.au



ORIGINAL SHEET SIZE A3
REF: 8352/45
SHEET 4
VERSION: 5

LICENSED SURVEYOR: SIMON COX



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

DATE: 06/07/2022

JOB No.: 9002/013

LOCATION: The Grove South West Precinct, Stage 45 & 48

OPERATOR: AB

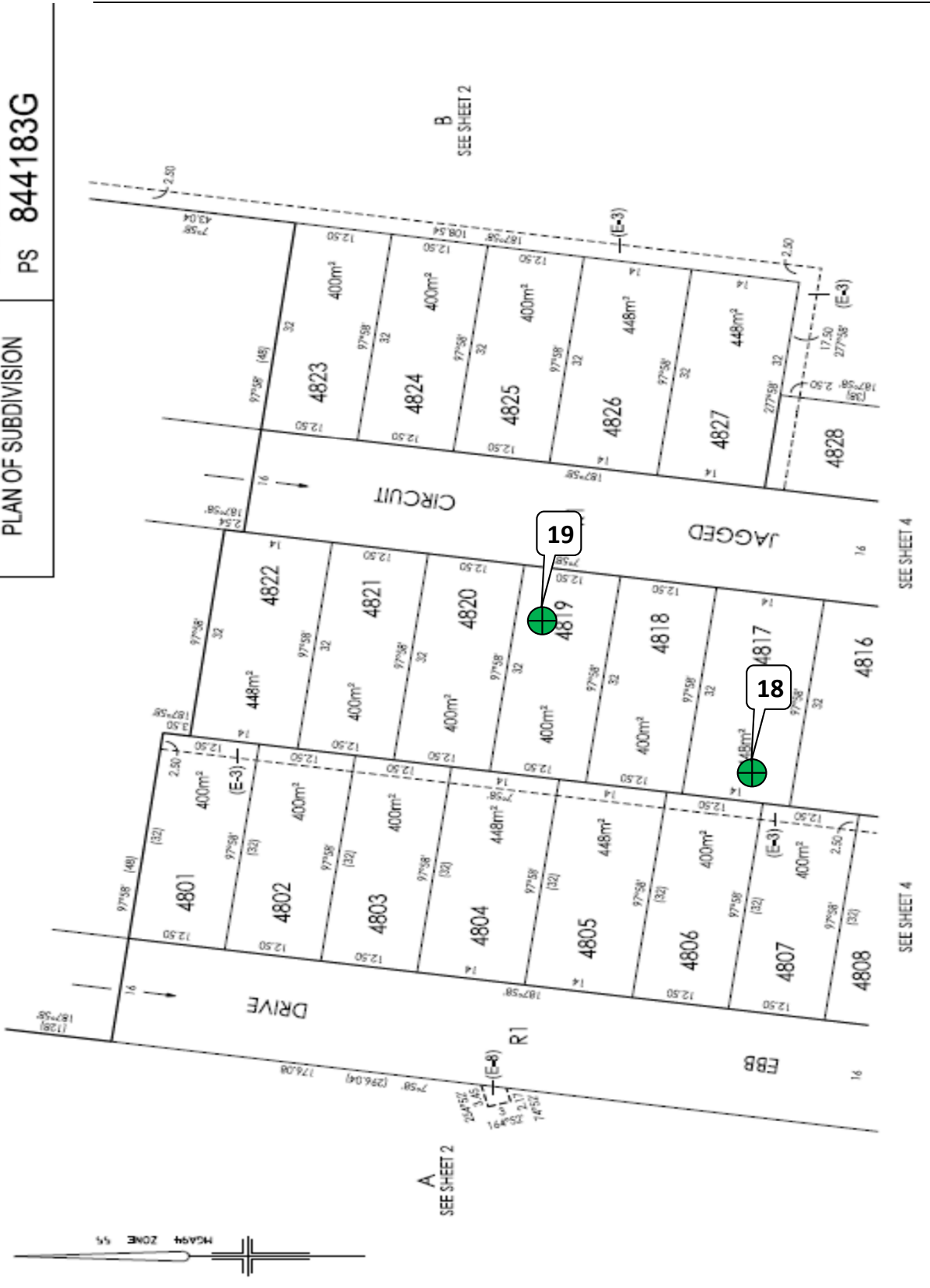
CHECKED: DM

Sketch indicating compaction test locations

SCALE: NTS

FIGURE No: 1 of 2

PLAN OF SUBDIVISION
 PLAN NUMBER
PS 844183G



SEE SHEET 4

SEE SHEET 4

ORIGINAL SHEET SIZE A3
 SHEET 3
 REF: 8352/48
 VERSION: 4
 LICENSED SURVEYOR: SIMON COX



SCALE
 1:500
 Breese Pitt Dixon Pty Ltd
 1/19 Calio Street
 Hawthorn East, Vic. 3123
 PH: 8823 2800 Fax: 8823 2810
 www.bpd.com.au info@bpd.com.au



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 45 & 48
 Sketch indicating compaction test locations

DATE: 06/07/2022
OPERATOR: AB
SCALE: NTS

JOB No.: 9002/013
CHECKED: DM
FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/012

LOCATION: SYMON BROS - The Grove SW, Stage 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
7/07/22	22	<i>Refer to #9005/013 for approx. test site locations.</i>	2.00	22.5	99.0	2.02	20.5	175	1.5 Wetter	108.5	0	0	700	
7/07/22	23		1.89	20.0	99.0	1.92	22.5	175	2.5 Drier	88.5	0	0	700	
7/07/22	24		1.91	19.0	98.5	1.94	22.0	175	2.5 Drier	88.0	0	0	800	
7/07/22	25		1.96	19.0	100.0	1.96	21.5	175	2.0 Drier	90.0	0	0	900	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 1:55pm Finish Time: 3:10pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



Accredited for compliance with ISO/IEC 17025 - Testing

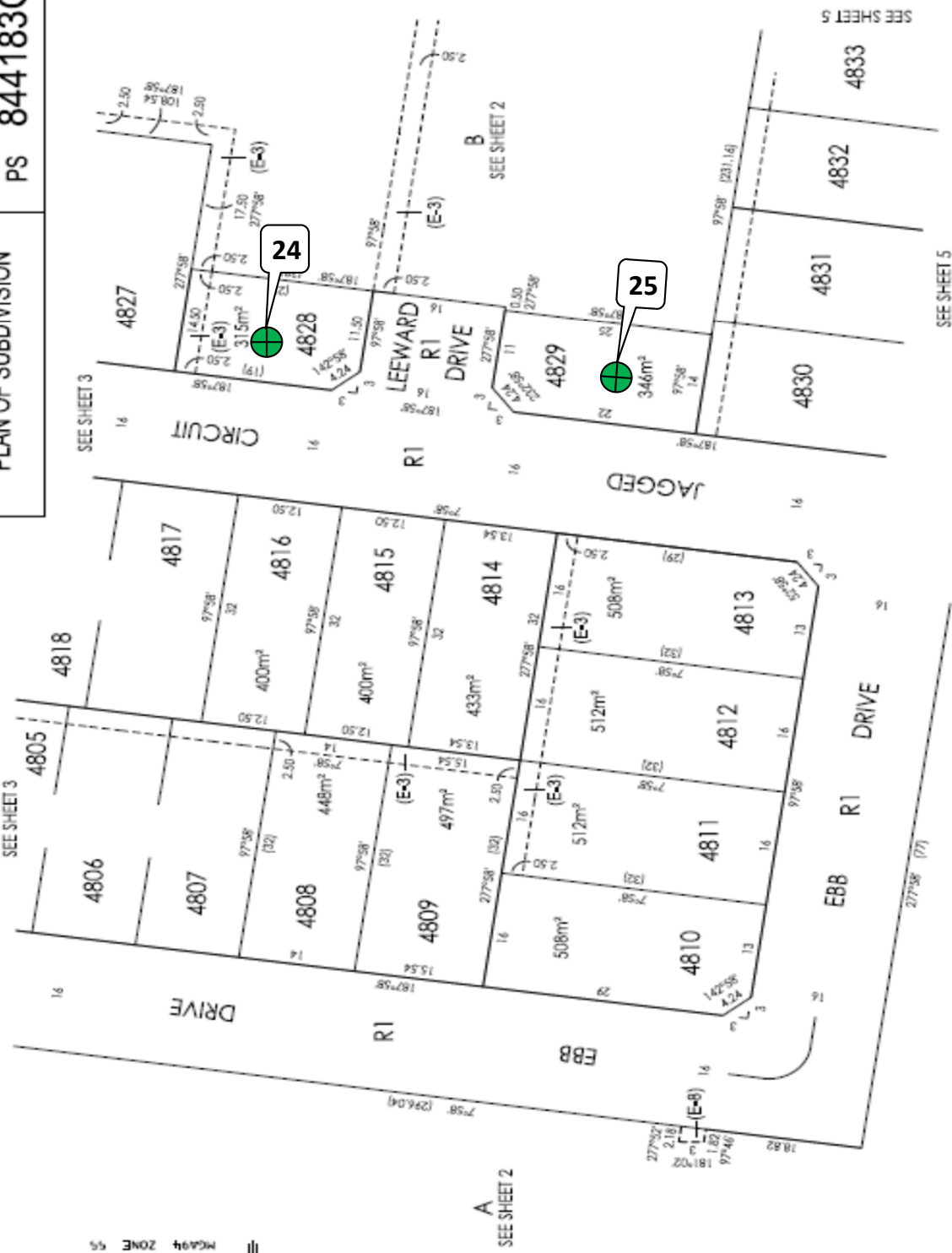
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 15/7/2022

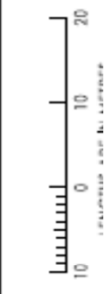
PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 SHEET 4

LICENSED SURVEYOR: SIMON COX



SCALE
1:500

Breese Pitt Dixon Pty Ltd
1719 Cain Street
Hawthorn East, Vic. 3123
Ph: 8623 2300 Fax: 8623 2310



**GEOTECHNICAL
LABORATORIES**

**GEOTECHNICAL LABORATORIES
ACN 102 571 077**

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48

Sketch indicating compaction test locations

DATE: 7/07/2022

JOB No.: 9005/013

OPERATOR: PS/NE CHECKED: KK

SCALE: NTS

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/017

LOCATION: SYMON BROS - The Grove, South West Precint, Stage 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
11/07/22	26	<i>Refer to #9005/018 for approx. test site locations.</i>	1.97	21.0	104.0	1.89	21.5	175	0.5 Drier	98.0	0	0	0	
11/07/22	27		1.89	24.0	95.5	✱ 1.98	24.5	175	0.0 Drier	99.0	8	0	300	
11/07/22	28		1.97	24.0	104.0	1.89	26.0	175	2.0 Drier	92.5	0	0	400	
11/07/22	29		1.87	24.5	100.5	1.86	26.0	175	1.0 Drier	95.0	0	0	800	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 9:30am Finish Time: 10:00am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✱ Indicates APCWD

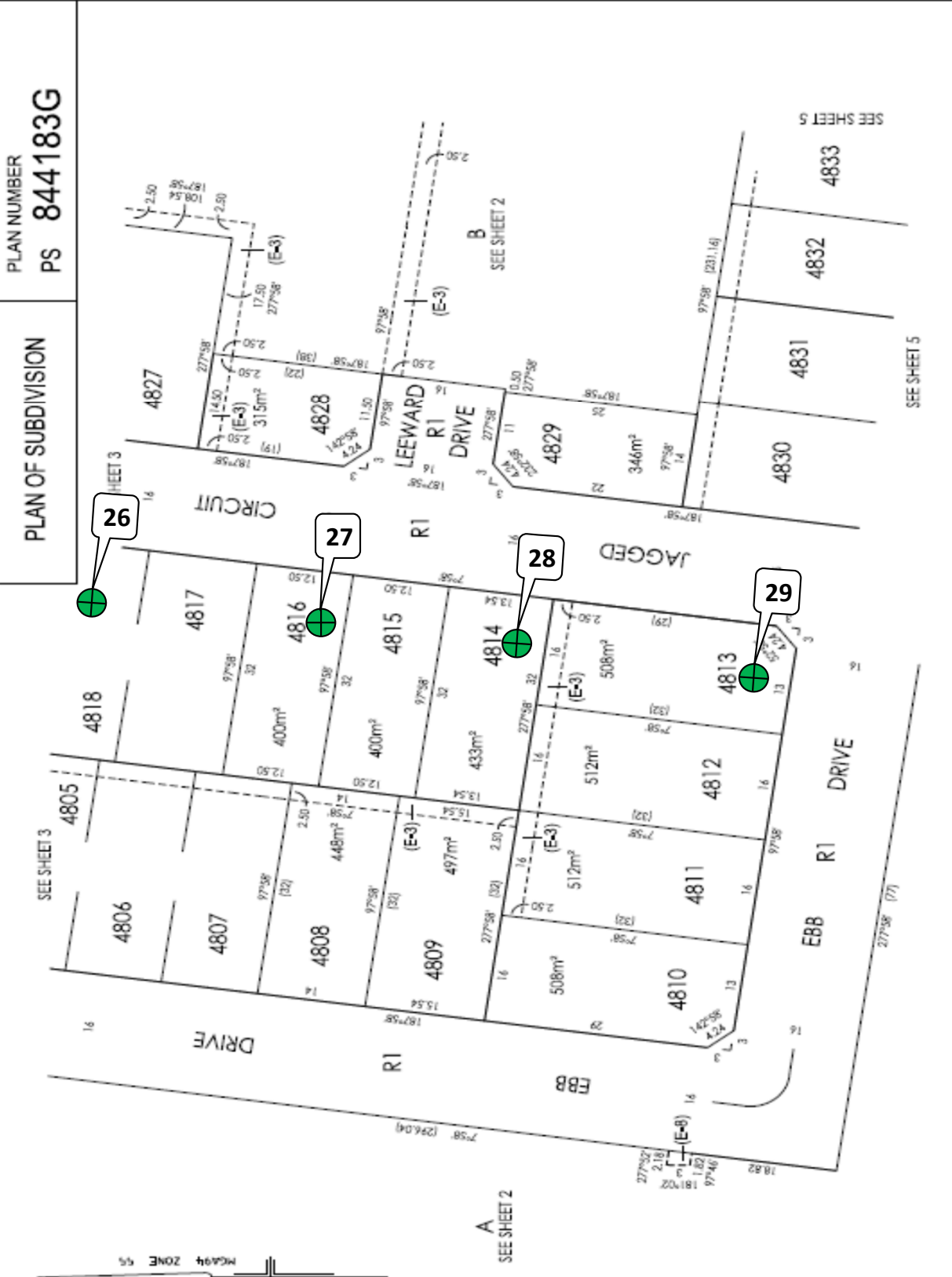


*Accredited for compliance with ISO/IEC
 17025 - Testing*

NATA Accredited Laboratory Number 14561

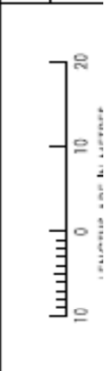
MICK CROWE
 (Approved Signatory)

Issue Date: 18/7/2022



PLAN OF SUBDIVISION
 PS 844183G
 PLAN NUMBER

REF: 8352/48
 VERSION: 4
 LICENSED SURVEYOR: SIMON COX



SCALE
 1:500

Breese Pitt Dixon Pty Ltd
 1719 Cain Street
 Hawthorn East, VIC 3123
 Ph: 8623 2300 Fax: 8623 2310



GEOTECHNICAL LABORATORIES

**GEOTECHNICAL LABORATORIES
 ACN 102 571 077**

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 48
Sketch indicating compaction test locations

DATE: 11/07/2022
OPERATOR: PV
SCALE: NTS

JOB No.: 9005/018
CHECKED: KK
FIGURE No: -



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/019

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 51

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
15/07/22	30	<i>Refer to #9005/020 for approx. test site locations.</i>	1.91	21.0	97.0	1.97	22.5	175	1.5 Drier	93.5	0	0	1500	
15/07/22	31		1.89	25.0	95.5	1.98	24.0	175	1.5 Wetter	105.0	0	0	1200	
15/07/22	32		1.88	27.0	97.5	✱ 1.93	25.5	175	1.5 Wetter	105.0	3	0	500	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 12:00pm Finish Time: 12:45pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✱ Indicates APCWD



Accredited for compliance with ISO/IEC

17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

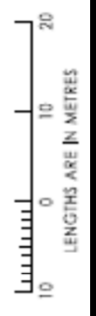
Issue Date: 22/7/2022

PLAN NUMBER
PS 838524R

PLAN OF SUBDIVISION



REF: 8352/51 VERSION: 4 SHEET 3
LICENSED SURVEYOR: SIMON COX



SCALE
1:500

Breese Pitt Dixon Pty Ltd
1/19 Caino Street
Hawthorn East, Vic. 3123
Ph: 8823 2300 Fax: 8823 2310



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

DATE: 15/07/2022

JOB No.: 9005/020

LOCATION: The Grove South West Precinct, Stage 48 & 51

OPERATOR: TC

CHECKED: KK

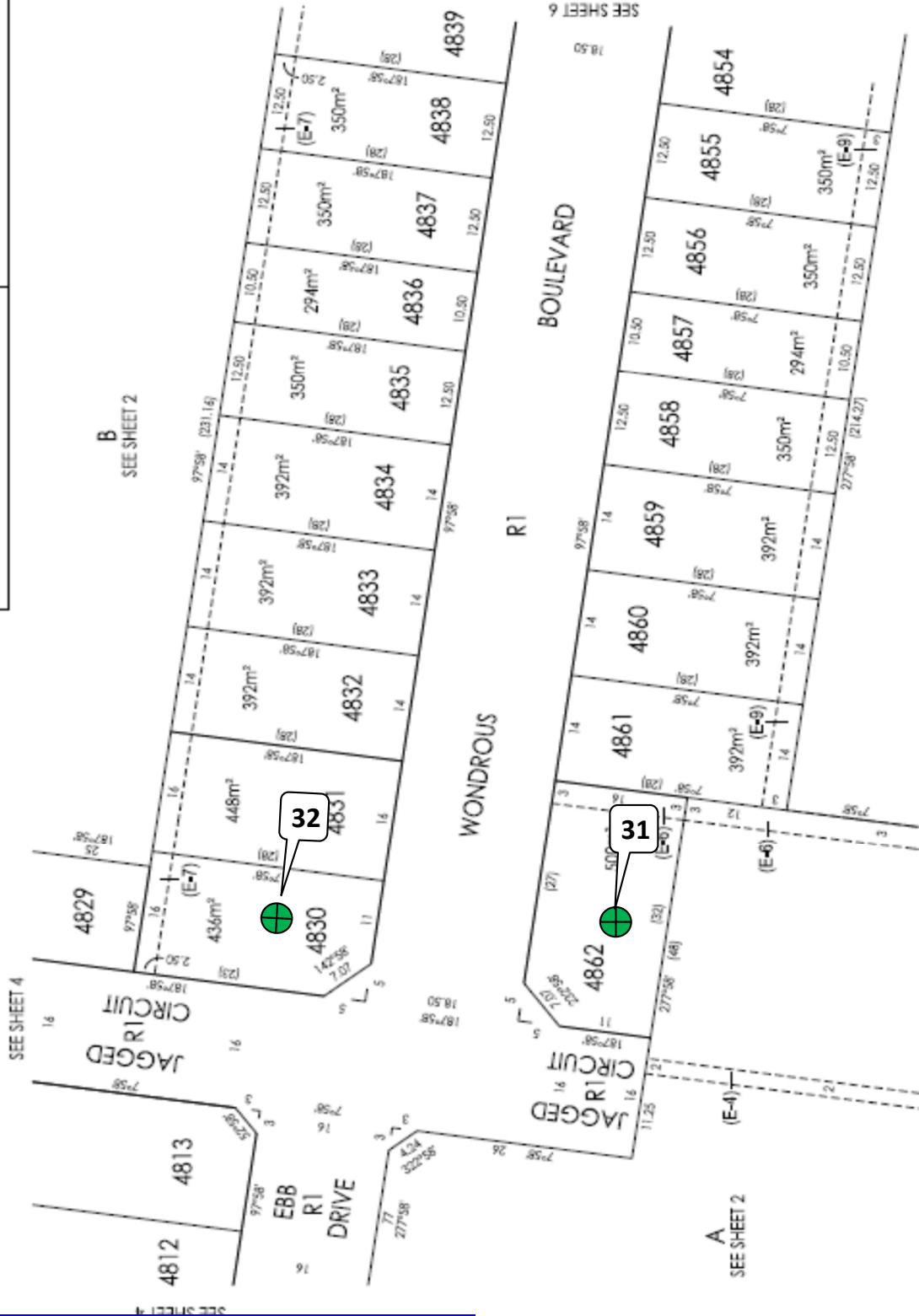
Sketch indicating compaction test locations

SCALE: NTS

FIGURE No: 1 of 2

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 ORIGINAL SHEET SIZE A3 SHEET 5



SCALE
1:500

see Pitt Dixon Pty Ltd
1119 Cain Street
Melbourn East Vic 3123
823 2588 Fax 8823 9150



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 48 & 51
Sketch indicating compaction test locations

DATE: 15/07/2022
OPERATOR: TC
SCALE: NTS

JOB No.: 9005/020
CHECKED: KK
FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/021

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 49

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
16/07/22	33	<i>Refer to #9005/022 for approx. test site locations.</i>	1.93	24.0	98.5	✘ 1.96	25.5	175	1.5 Drier	93.0	8	0	300	
16/07/22	34		1.87	24.0	95.0	✘ 1.97	23.5	175	0.5 Wetter	102.0	8	0	300	
16/07/22	35		1.97	22.0	101.5	✘ 1.93	24.5	175	2.5 Drier	89.0	10	0	0	
16/07/22	36		1.89	29.0	98.0	✘ 1.93	28.5	175	1.0 Wetter	102.5	11	0	500	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 10:40am Finish Time: 11:20am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD



Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 22/7/2022

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48	VERSION: 4	ORIGINAL SHEET SIZE A3	SHEET 5
LICENSED SURVEYOR: SIMON COX			



SCALE
1:500

see Pitt Dixon Pty Ltd
1119 Cain Street
Melbourn East Vic 3123
03 9238 0300 Fax 03 9238 0310



GEOTECHNICAL LABORATORIES

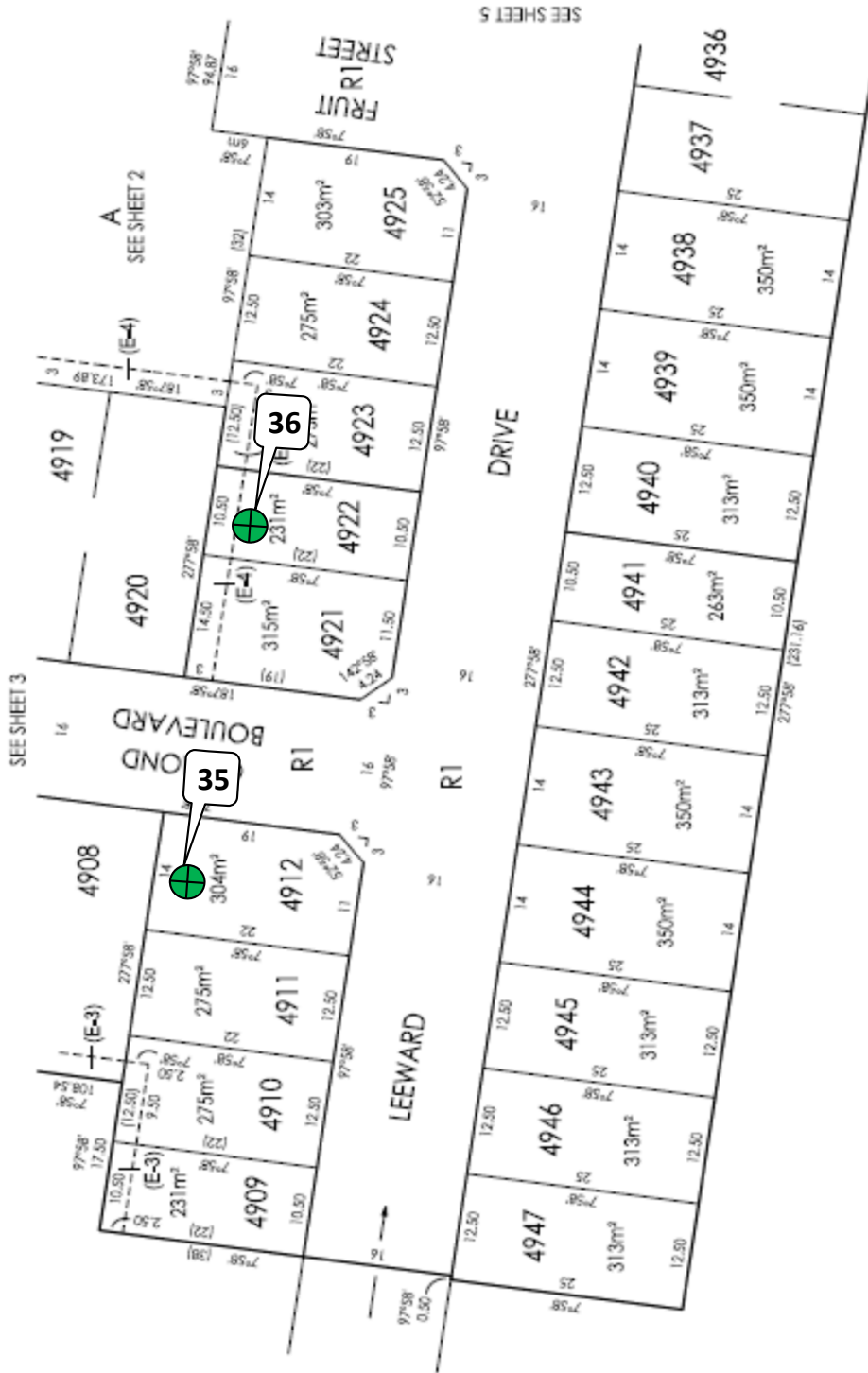
GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS LOCATION: The Grove South West Precinct, Stage 48 & 49 Sketch indicating compaction test locations	DATE: 16/07/2022	JOB No.: 9005/022
	OPERATOR: TC	CHECKED: KK
	SCALE: NTS	FIGURE No: 1 of 2

PLAN NUMBER
PS 844185C

PLAN OF SUBDIVISION



REF: 8352/49	VERSION: 5	ORIGINAL SHEET SIZE A3	SHEET 4
LICENSED SURVEYOR: SIMON COX			



use Pitt Dixon Pty Ltd
1/19 Cain Street
Whom East V/c 3123
105 050th Exp. 8825 9540



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 49

Sketch indicating compaction test locations

DATE: 16/07/2022

OPERATOR: TC

SCALE: NTS

JOB No.: 9005/022

CHECKED: KK

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/024

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 49

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
18/07/22	37	<i>Refer to #9005/025 for approx. test site locations.</i>	2.02	20.0	101.5	✘ 1.99	21.0	175	1.5 Drier	93.0	5	0	300	
18/07/22	38		2.03	22.5	101.5	2.00	23.0	175	0.5 Drier	98.0	0	0	500	
18/07/22	39		2.13	18.5	104.0	✘ 2.05	21.0	175	2.5 Drier	87.5	16	0	600	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 1:50pm Finish Time: 2:20pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD



Accredited for compliance with ISO/IEC

17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 22/7/2022

PLAN NUMBER
PS 844185C

PLAN OF SUBDIVISION



REF: 8352/49	VERSION: 5	ORIGINAL SHEET SIZE A3	SHEET 4
LICENSED SURVEYOR: SIMON COX			



SCALE
1:500

Use Pitt Dixon Pty Ltd
1/19 Cain Street
Whom East Vic 3123
100 03000 Fax 0825 9540



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 49

Sketch indicating compaction test locations

DATE: 18/07/2022

OPERATOR: BM

SCALE: NTS

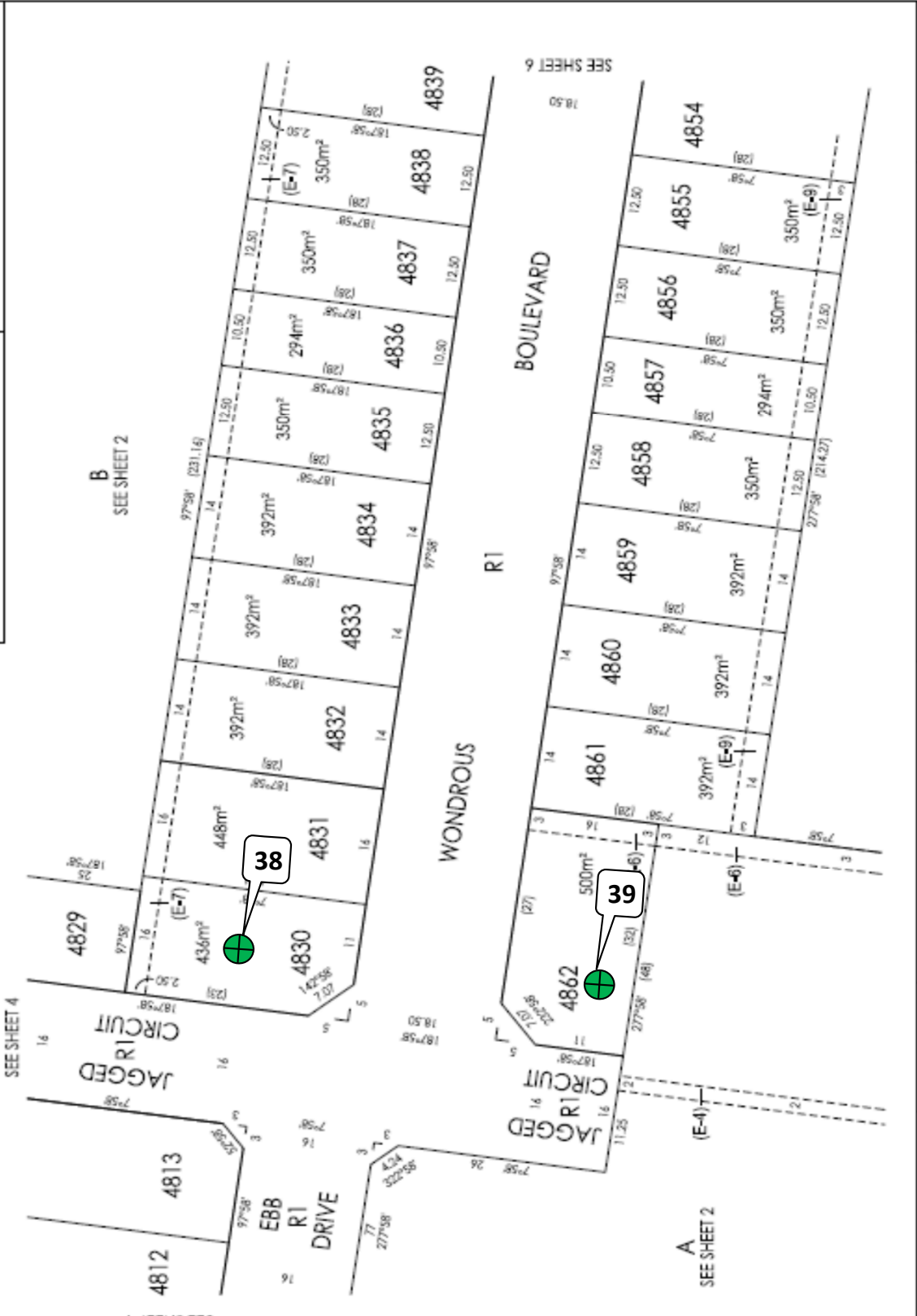
JOB No.: 9005/025

CHECKED: KK

FIGURE No: 1 of 2

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48	VERSION: 4	ORIGINAL SHEET SIZE A3	SHEET 5
LISCENSED SURVEYOR: SIMON COX			
SCALE 1:500			
see Pllt Dixon Pty Ltd 1/19 Calo Street Wontham East, Vic 3123 031 9700 Fax: 8823 2310			



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 49

Sketch indicating compaction test locations

DATE: 18/07/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9005/025

CHECKED: KK

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/026

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48, 49 & 51 Wetlands

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
21/07/22	40	<i>Refer to #9005/027 for approx. test site locations.</i>	1.92	32.0	98.5	1.94	28.5	175	3.0 Wetter	111.0	0	0	300
21/07/22	41		2.05	23.5	105.0	1.96	22.5	175	1.0 Wetter	104.5	0	0	0
21/07/22	42		1.91	23.0	100.5	1.90	21.0	175	1.5 Wetter	108.0	0	0	0
21/07/22	43		2.00	22.5	104.0	✘ 1.92	25.0	175	2.5 Drier	89.5	4	0	0
21/07/22	44		1.96	20.0	99.0	✘ 1.98	21.5	175	1.5 Drier	92.0	5	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11:50am Finish Time: 1:20pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD

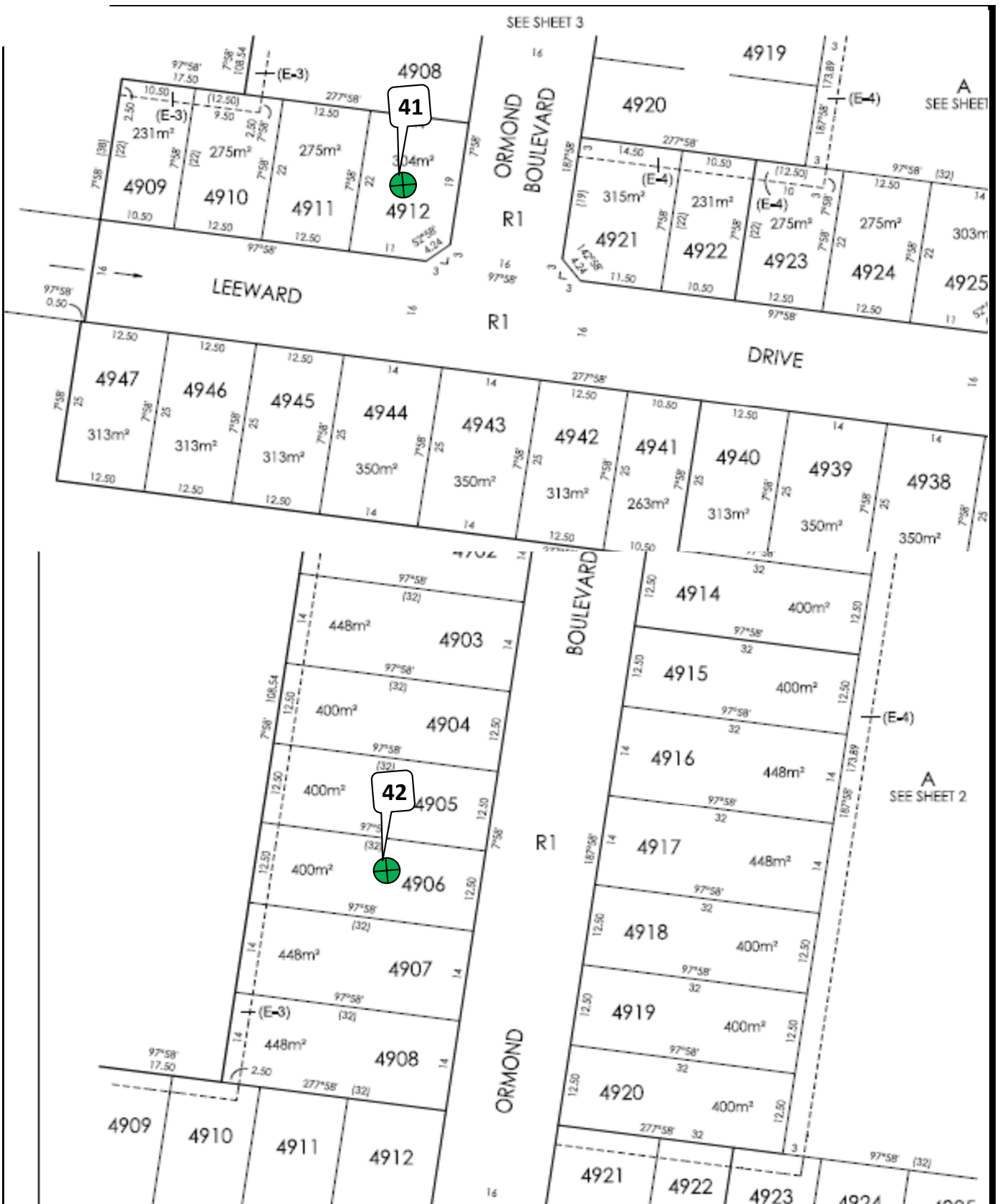


Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 27/7/2022



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48, 49 & 51 Wetlands

Sketch indicating compaction test locations

DATE: 21/07/2022

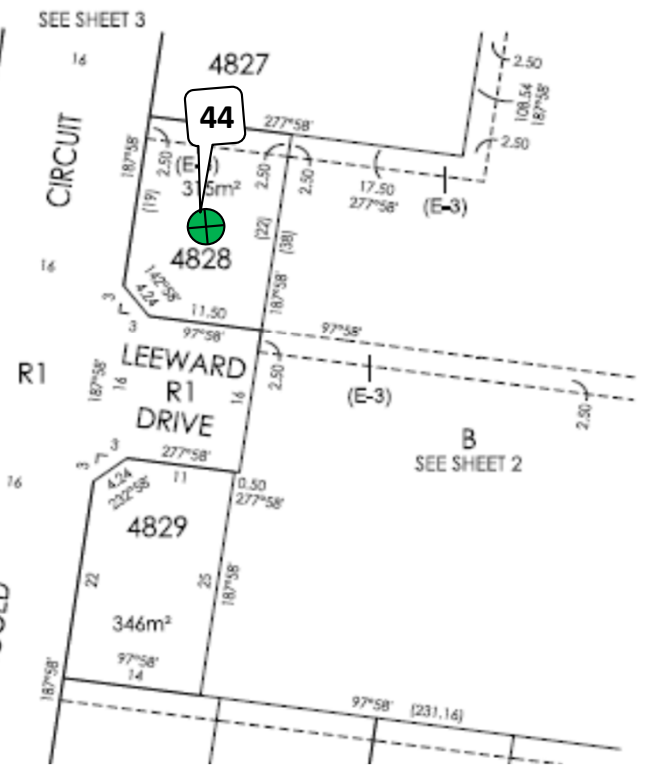
OPERATOR: BM

SCALE: NTS

JOB No.: 9005/027

CHECKED: KK

FIGURE No: 2 of 3



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

DATE: 21/07/2022

JOB No.: 9005/027

LOCATION: The Grove South West Precinct, Stage 48, 49 & 51 Wetlands

OPERATOR: BM

CHECKED: KK

Sketch indicating compaction test locations

SCALE: NTS

FIGURE No: 3 of 3



GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9006/034

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 49

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
23/07/22	48	<i>Refer to #9006/035 for approx. test site locations.</i>	2.00	24.0	98.5	2.02	23.0	175	1.0 Wetter	104.5	0	0	0	
23/07/22	49		1.97	23.5	97.5	✱ 2.02	23.0	175	0.5 Wetter	102.0	4	0	0	
23/07/22	50		1.91	26.0	97.0	1.97	23.5	175	2.5 Wetter	111.0	0	0	0	
23/07/22	51		2.01	25.0	100.0	2.01	23.5	175	2.0 Wetter	107.5	0	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 10:50am Finish Time: 11:20am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✱ Indicates APCWD

❖

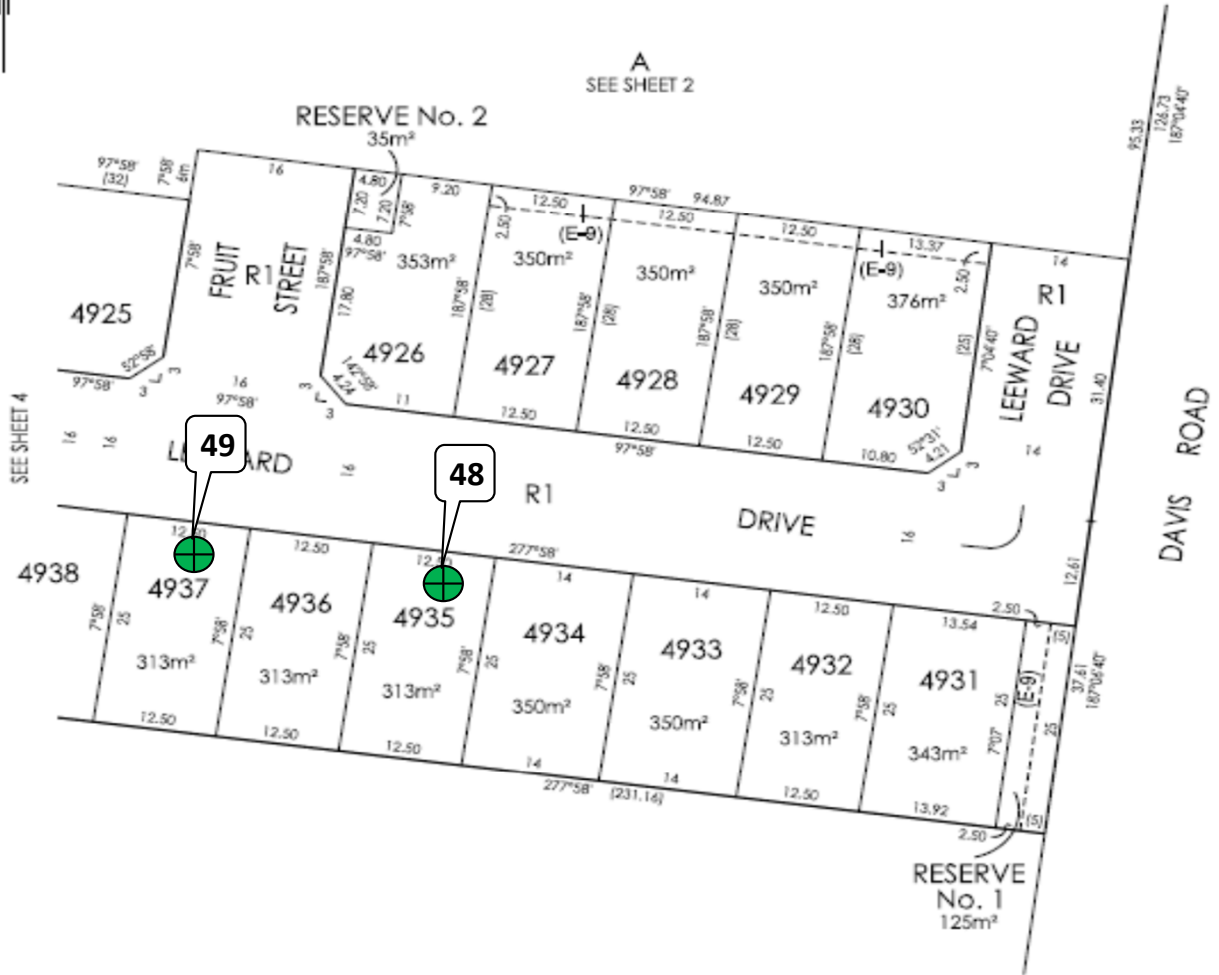


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17025 - Testing*

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

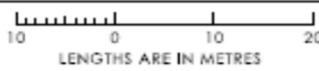
Issue Date: 3/8/2022



Breese Pitt Dixon Pty Ltd
1/19 Calo Street
Hawthorn East Vic 3123
Ph: 8823 2300 Fax: 8823 2310
www.bpd.com.au info@bpd.com.au

SCALE

1:500



ORIGINAL SHEET SIZE A3
REF: 8352/49

SHEET 5
VERSION: 5

LICENSED SURVEYOR: SIMON COX



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

DATE: 23/07/2022

JOB No.: 9006/035

LOCATION: The Grove South West Precinct, Stage 48 & 49

OPERATOR: TC

CHECKED: KK

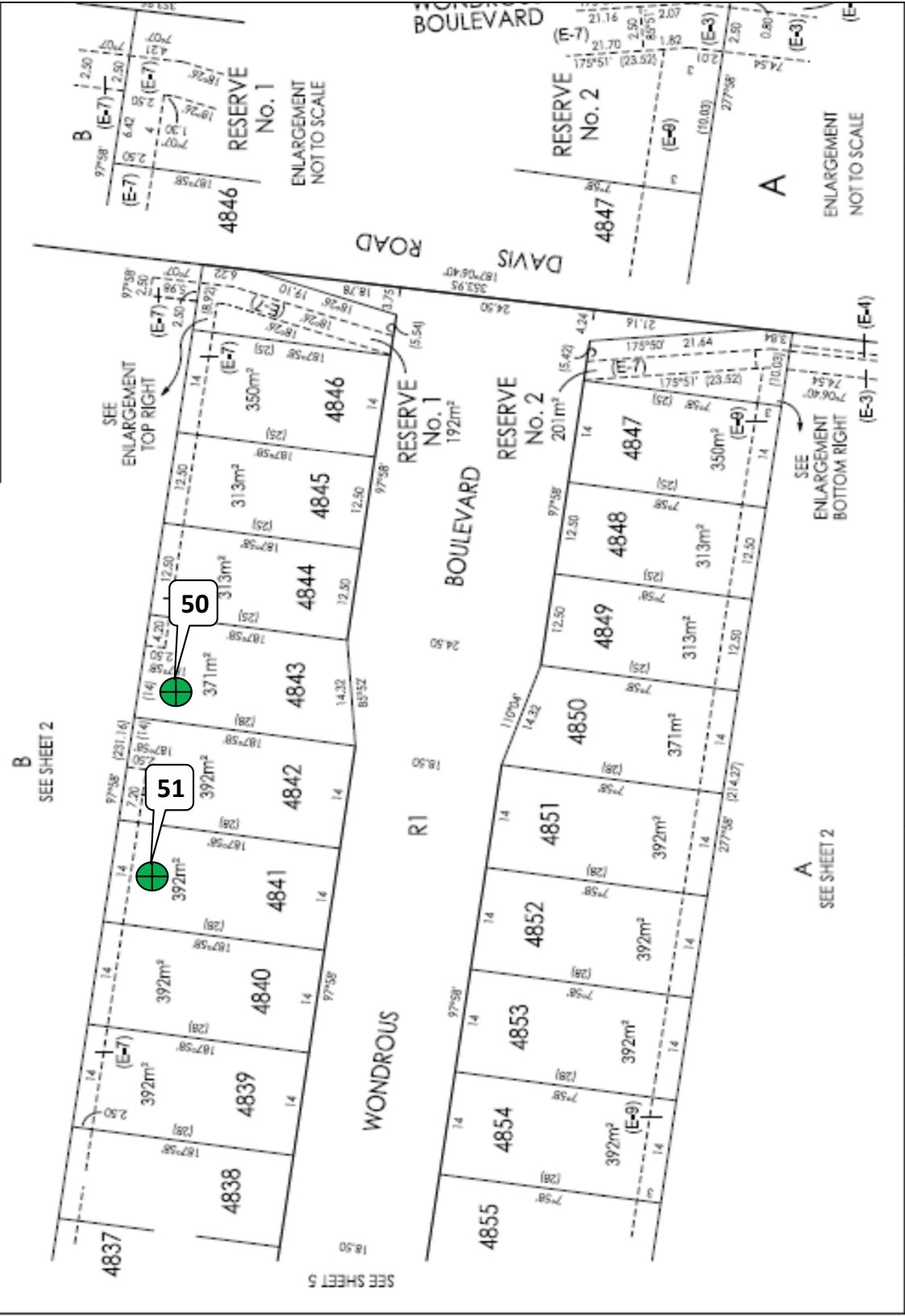
Sketch indicating compaction test locations

SCALE: NTS

FIGURE No: 1 of 2

PLAN NUMBER
PS 8441

PLAN OF SUBDIVISION



ORIGINAL SHEET SIZE: A3	VERSION: 4
REF: 8352/48	LICENSED SURVEYOR: SIMON COX
SCALE: 1:500	SEE SHEET 2
Breese Pitt Dixon Pty Ltd 1/19 Calo Street Hawthorn East VIC 3123 Ph: 8824 9300 Fax: 8823 2310	



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS LOCATION: The Grove South West Precinct, Stage 48 & 49 Sketch indicating compaction test locations	DATE: 23/07/2022	JOB No.: 9006/035
	OPERATOR: TC	CHECKED: KK
	SCALE: NTS	FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9006/037

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 49

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
25/07/22	52	<i>Refer to #9006/038 for approx. test site locations.</i>	2.05	26.0	101.0	✘ 2.02	23.0	175	3.0 Wetter	112.0	4	0	0	
25/07/22	53		1.97	24.5	100.0	1.98	24.0	175	0.5 Wetter	102.0	0	0	0	
25/07/22	54		1.88	22.5	99.5	✘ 1.88	25.5	175	3.0 Drier	87.5	4	0	0	
25/07/22	55		2.06	25.5	101.0	✘ 2.03	24.0	175	1.5 Wetter	105.0	11	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 10:45am Finish Time: 11:25am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200,,

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD



Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 3/8/2022

PLAN NUMBER
PS 844185C

PLAN OF SUBDIVISION



REF: 8352/49 VERSION: 5 ORIGINAL SHEET SIZE A3 SHEET 4



SCALE
1:500

reese Pitt Dixon Pty Ltd
1/19 Cato Street
Hawthorn East Vic 3123
P. 0393 0500 F. 0393 0510



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 49

Sketch indicating compaction test locations

DATE: 25/07/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9006/038

CHECKED: KK

FIGURE No: 1 of 2

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 ORIGINAL SHEET SIZE A3 SHEET 5

LICENSED SURVEYOR: SIMON COX

SCALE 1:500

Breese Pitt Dixon Pty Ltd
1119 Calo Street
Hawthorn East Vic 3123
Ph: 8821 9300 Fax: 8821 9310



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 49

Sketch indicating compaction test locations

DATE: 25/07/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9006/038

CHECKED: KK

FIGURE No: 2 of 2

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION

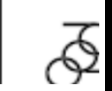


REF: 8352/48
VERSION: 4
LICENSED SURVEYOR: SIMON COX



SCALE
1:500

Breese Pitt Dixon Pty Ltd
1719 Cain Street
Hawthorn East, Vic 3123
Ph: 8823 2344 Fax: 8823 2345



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 51

Sketch indicating compaction test locations

DATE: 26/07/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9005/033

CHECKED: KK

FIGURE No: 1 of 2

PLAN NUMBER
PS 838524R

PLAN OF SUBDIVISION



REF: 8352/51	VERSION: 4	ORIGINAL SHEET SIZE A3	SHEET 3
LICENSED SURVEYOR: SIMON COX			
SCALE 1:500		LENGTHS ARE IN METRES	
Breese Pitt Dixon Pty Ltd 1/19 Cain Street Hawthorn East Vic 3123 Ph: 8623 2300 Fax: 8623 2310			



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 51

Sketch indicating compaction test locations

DATE: 26/07/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9005/033

CHECKED: KK

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/034

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
27/07/22	49	<i>Refer to #9005/035 for approx. test site locations.</i>	2.02	26.0	102.5	1.97	25.5	175	0.5 Wetter	102.0	0	0	0	
27/07/22	50		1.96	26.0	99.5	1.97	24.5	175	1.5 Wetter	106.0	0	0	0	
27/07/22	51		1.99	22.5	100.5	1.97	23.0	175	0.0 Drier	99.0	0	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 12:45pm Finish Time: 1:20pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



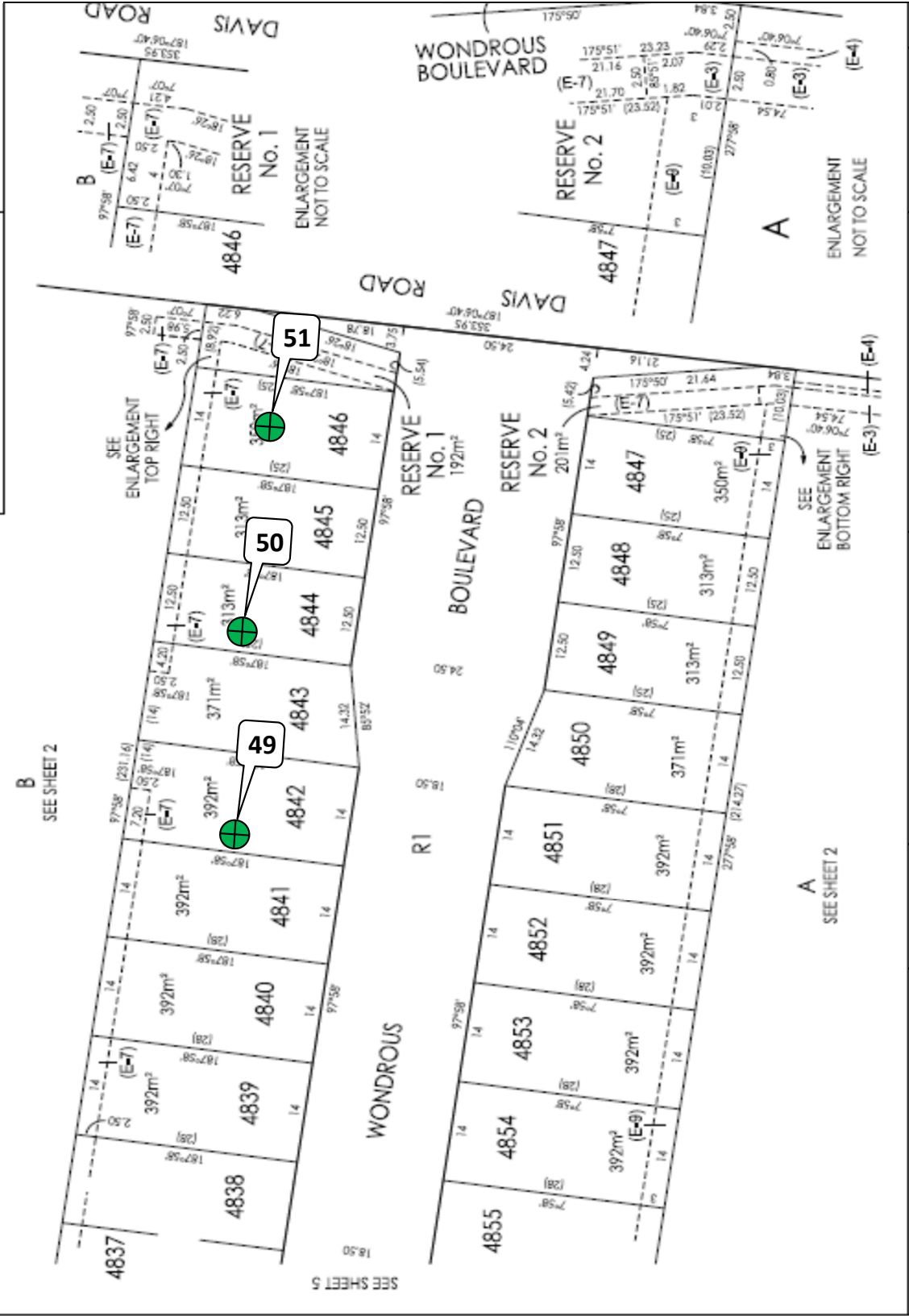
Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 3/8/2022

PLAN OF SUBDIVISION
PS 844183



REF: 8352/48	VERSION: 4	ORIGINAL SHEET SIZE A3
SCALE	1:500	
Breese Pitt Dixon Pty Ltd 1/19 Cain Street Hawthorn East, Vic. 3123 Ph: 8823 2300 Fax: 8823 2310		
LICENSED SURVEYOR: SIMON COX		



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

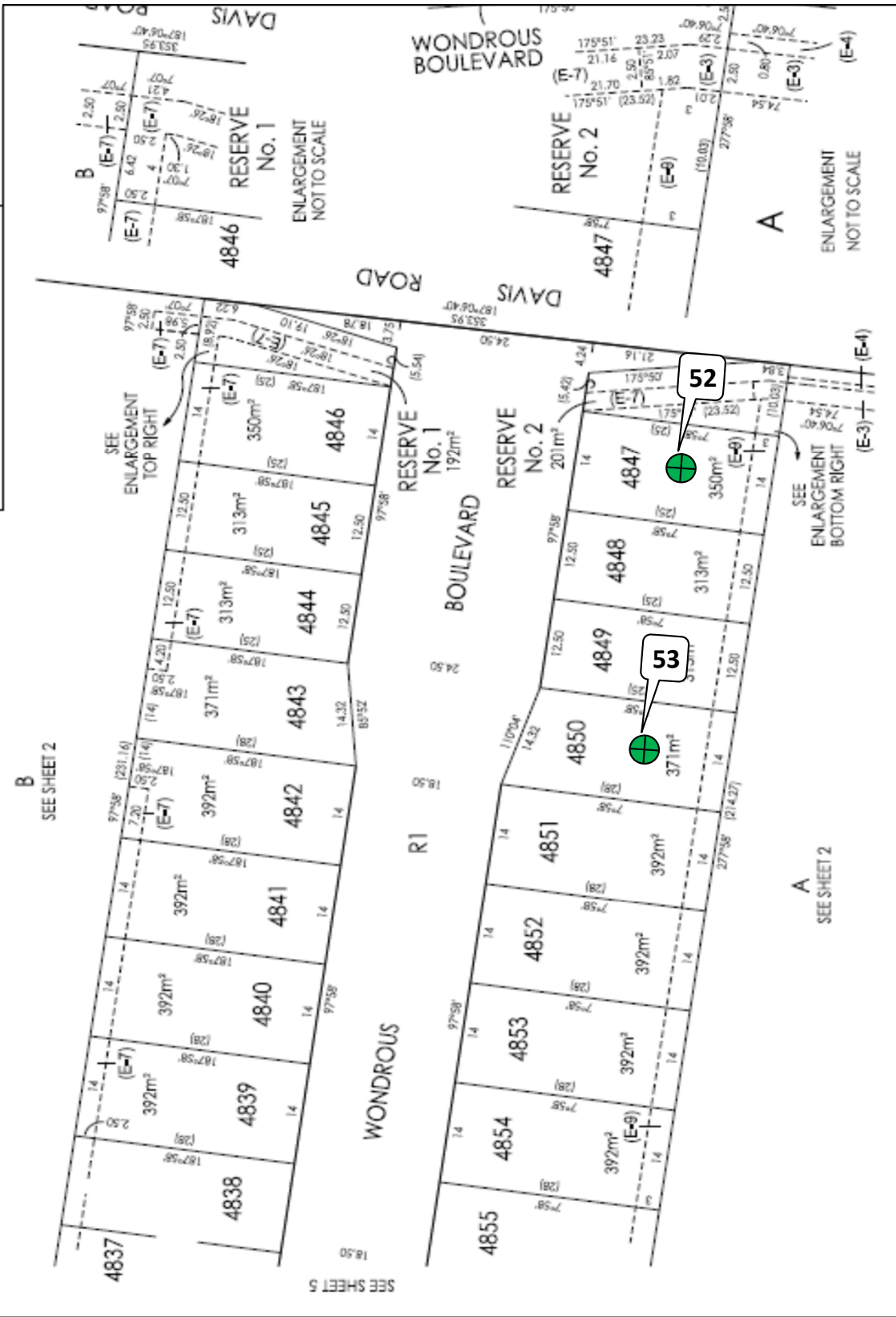
14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 48
Sketch indicating compaction test locations

DATE: 27/07/2022
OPERATOR: BM
SCALE: NTS

JOB No.: 9005/035
CHECKED: KK
FIGURE No: -

PLAN OF SUBDIVISION
 PLAN NUMBER
PS 844183



REF: 8352/48	VERSION: 4	ORIGINAL SHEET SIZE A3
		LICENSED SURVEYOR: SIMON COX
SCALE	1:500	
Breese Pitt Dixon Pty Ltd 1/19 Cato Street Hawthorn East, Vic 3123 Ph: 8523 2300 Fax: 8523 2310		



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GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 51

Sketch indicating compaction test locations

DATE: 28/07/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9005/037

CHECKED: KK

FIGURE No: 1 of 2

PLAN NUMBER
PS 838524R

PLAN OF SUBDIVISION



ORIGINAL SHEET SIZE A3	SHEET
VERSION: 4	REF: 8352/51
LICENSED SURVEYOR: SIMON COX	SCALE 1:500
LENGTHS ARE IN METRES	10 0 10 20
Breese Pitt Dixon Pty Ltd 1/19 Caino Street Hawthorn East Vic 3123 Ph: 8823 2300 Fax: 8823 2310	SEE SHEET 1



**GEOTECHNICAL
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GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 51

Sketch indicating compaction test locations

DATE: 28/07/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9005/037

CHECKED: KK

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/038

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 51

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
29/07/22	56	<i>Refer to #9005/039 for approx. test site locations.</i>	1.99	21.0	105.5	1.88	23.5	175	2.5 Drier	89.0	0	0	0	
29/07/22	57		2.00	20.5	101.5	✘ 1.96	21.5	175	1.0 Drier	94.5	14	0	300	
29/07/22	58		2.10	21.5	105.0	2.00	22.0	175	0.5 Drier	98.0	0	0	500	
29/07/22	59		2.04	19.0	101.5	✘ 2.00	20.0	175	1.0 Drier	94.0	9	0	1000	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 12:20pm Finish Time: 1:00pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD



*Accredited for compliance with ISO/IEC
 17025 - Testing*

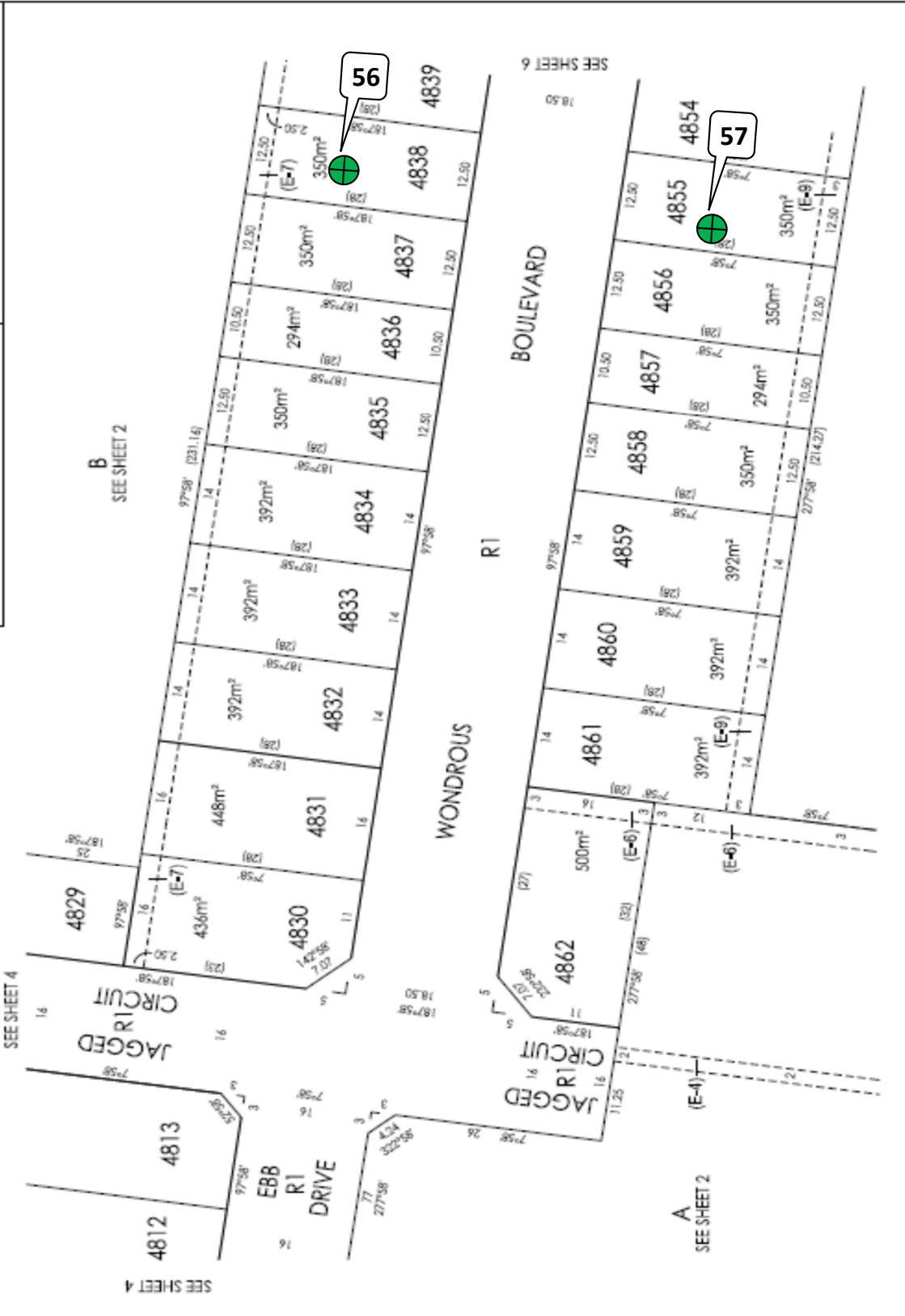
NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

Issue Date: 3/8/2022

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 ORIGINAL SHEET SIZE A3 SHEET 5

LICENSED SURVEYOR: SIMON COX

SCALE 1:500

Breese Pitt Dixon Pty Ltd
1/19 Cato Street
Hawthorn East Vic 3123
Ph: 8823 2300 Fax: 8823 9310



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 48 & 51
Sketch indicating compaction test locations

DATE: 29/07/2022
OPERATOR: BM
SCALE: NTS

JOB No.: 9005/039
CHECKED: KK
FIGURE No: 1 of 2

PLAN NUMBER
PS 838524F

PLAN OF SUBDIVISION



REF: 8352/51 VERSION: 4 ORIGINAL SHEET SIZE A3

LICENSED SURVEYOR: SIMON COX

SCALE 1:500

Breese Pitt Dixon Pty Ltd
1/19 Calo Street
Hawthorn East, Vic 3123
Ph: 8823 2300 Fax: 8823 2310



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 51

Sketch indicating compaction test locations

DATE: 29/07/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9005/039

CHECKED: KK

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/040

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 51

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
30/07/22	60	<i>Refer to #9005/041 for approx. test site locations.</i>	1.96	21.0	98.5	✘ 1.99	23.0	175	2.0 Drier	91.5	10	0	0	
30/07/22	61		2.00	25.5	100.5	1.99	23.5	175	2.0 Wetter	107.5	0	0	0	
30/07/22	62		1.89	24.0	95.0	✘ 1.98	23.5	175	0.0 Wetter	101.0	3	0	0	
30/07/22	63		1.99	25.5	97.5	✘ 2.04	24.0	175	1.5 Wetter	106.5	11	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 10:05am Finish Time: 11:00am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD



Accredited for compliance with ISO/IEC

17025 - Testing

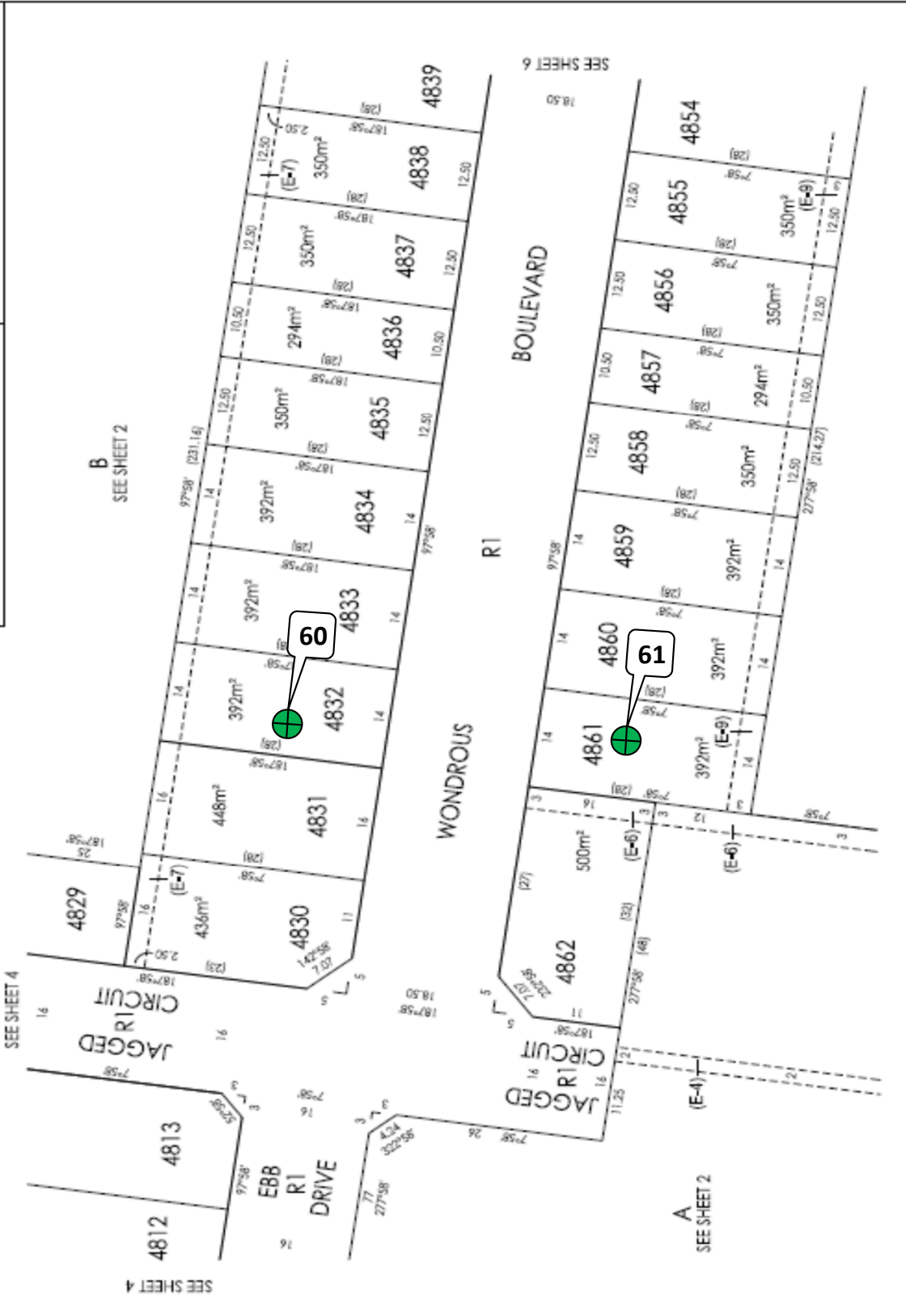
NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 3/8/2022

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 ORIGINAL SHEET SIZE A3 SHEET 5

LICENSED SURVEYOR: SIMON COX

SCALE
1:500

Breese Pitt Dixon Pty Ltd
1/19 Cato Street
Hawthorn East Vic 3123
Ph: 8823 2300 Fax: 8823 9310



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

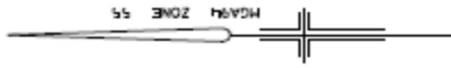
CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 48 & 51
Sketch indicating compaction test locations

DATE: 30/07/2022
OPERATOR: TC
SCALE: NTS

JOB No.: 9005/041
CHECKED: KK
FIGURE No: 1 of 2

PLAN NUMBER
PS 838524R

PLAN OF SUBDIVISION



WONDROUS BOULEVARD

EBB DRIVE

5101
448m²
(E-11)

5102
448m²
(E-11)

5103
508m²
(E-11)

5104
512m²

5105
512m²

5106
448m²

5107

RESERVE No. 3
7003m²

RESERVE No. 1
SEE SHEET 2
(E-1)

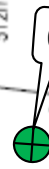
JAGGED

R1

CIRCUIT

62

63

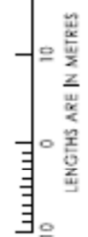


SHEET 3

ORIGINAL SHEET SIZE A3

VERSION: 4

REF: 8352/51



SCALE
1:500

reese Pilt Dixon Pty Ltd
1/19 Calo Street
Hawthorn East, Vic 3123
t: 8823 2300 Fax: 8823 2310

LICENCED SURVEYOR: SIMON COX



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 51

Sketch indicating compaction test locations

DATE: 30/07/2022

OPERATOR: TC

SCALE: NTS

JOB No.: 9005/041

CHECKED: KK

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/043

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 51

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
1/08/22	64	<i>Refer to #9005/044 for approx. test site locations.</i>	1.99	21.5	104.5	1.90	24.5	175	2.5 Drier	89.0	0	0	600	
1/08/22	65		1.97	20.5	101.0	1.94	23.0	175	2.5 Drier	89.5	0	0	600	
1/08/22	66		1.99	23.5	100.0	1.99	23.5	175	0.0 Drier	100.0	0	0	600	
1/08/22	67		2.06	21.0	104.0	1.98	22.0	175	1.0 Drier	95.5	0	0	600	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 12:00pm Finish Time: 12:45pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 3/8/2022

PLAN NUMBER
PS 844183C

PLAN OF SUBDIVISION



REF: 8352/48	VERSION: 4	ORIGINAL SHEET SIZE A3
LICENSED SURVEYOR: SIMON COX		
SCALE	1:500	
Breese Pitt Dixon Pty Ltd 1/19 Cain Street Hawthorn East, VIC 3123 PH: 8823 2300 FAX: 8823 2310		



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 51

Sketch indicating compaction test locations

DATE: 1/08/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9005/044

CHECKED: KK

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/045

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 51

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
2/08/22	68	<i>Refer to #9005/046 for approx. test site locations.</i>	1.92	20.5	102.0	1.88	24.5	175	4.0 Drier	84.0	0	0	100	
2/08/22	69		2.06	22.5	103.0	2.00	22.0	175	0.5 Wetter	103.5	0	0	100	
2/08/22	70		1.94	21.0	100.5	1.93	23.5	175	2.5 Drier	89.5	0	0	100	
2/08/22	71		2.08	20.0	107.0	1.94	22.0	175	2.5 Drier	89.0	0	0	100	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 1:30pm Finish Time: 2:10pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



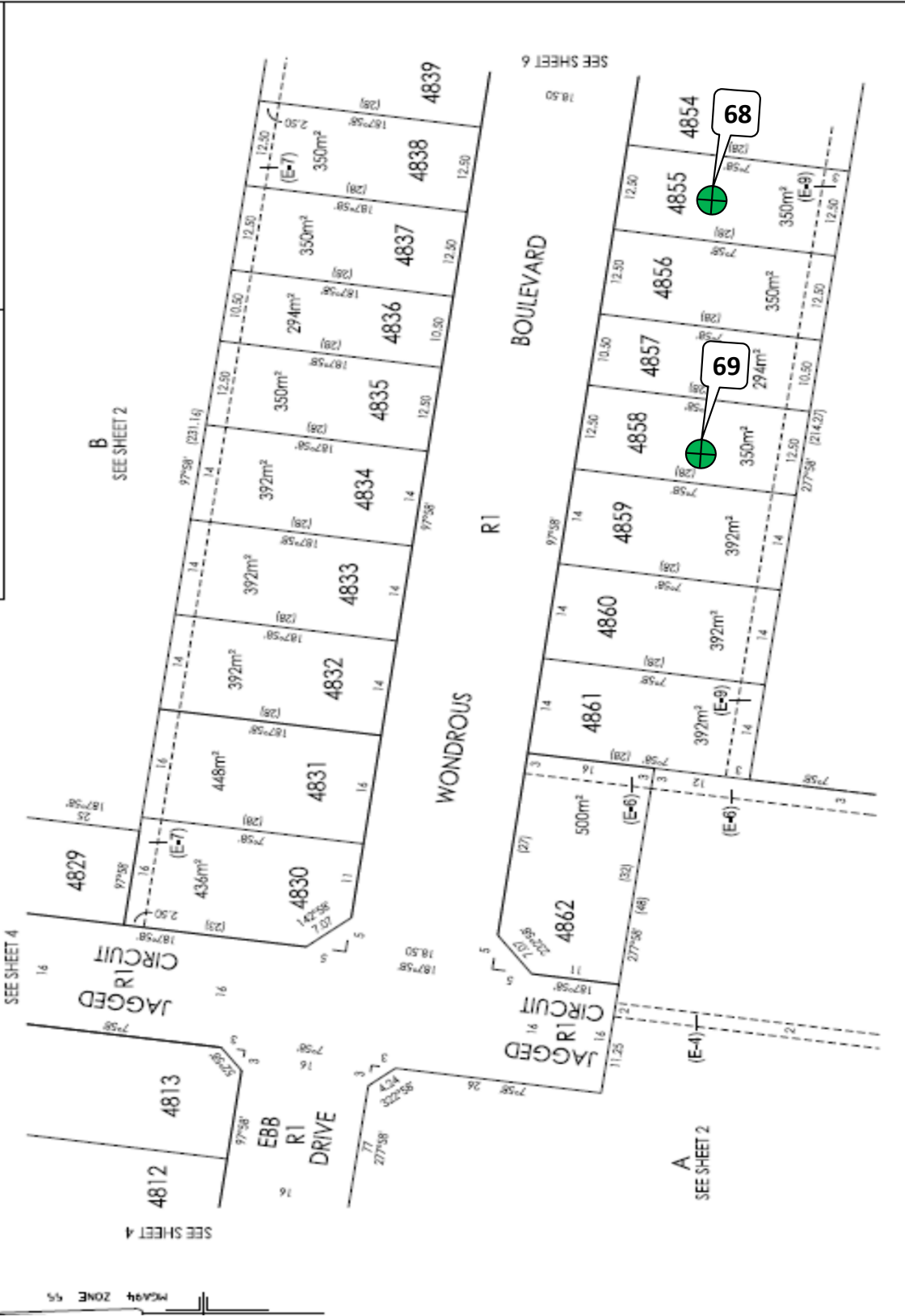
Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 4/8/2022

PLAN OF SUBDIVISION
 PS 844183G



REF: 8352/48	VERSION: 4	ORIGINAL SHEET SIZE A3	SHEET 5
LUNN		10 0 10 20	
SCALE	1:500		
Breesa Pitt Dixon Pty Ltd 1/19 Cato Street Hawthorn East, Vic 3123 Ph: 8523 2300 Fax: 8823 2310			



GEOTECHNICAL LABORATORIES
 ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS LOCATION: The Grove South West Precinct, Stage 48 & 51 Sketch indicating compaction test locations	DATE: 1/08/2022	JOB No.: 9005/046
	OPERATOR: BM	CHECKED: KK
	SCALE: NTS	FIGURE No: 1 of 2

PLAN OF SUBDIVISION
 PS 838524F



REF: 8352/51	VERSION: 4	ORIGINAL SHEET SIZE A3
LICENSED SURVEYOR: SIMON COX		
 LENGTHS ARE IN METRES		
SCALE	1:500	
Breese Pitt Dixon Pty Ltd 1/19 Cain Street Hawthorn East Vic 3123 Ph: 0800 0300 00 Fax: 0800 0300 01		



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
 ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 48 & 51
 Sketch indicating compaction test locations

DATE: 1/08/2022
OPERATOR: BM
SCALE: NTS

JOB No.: 9005/046
CHECKED: KK
FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/047

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 51

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
3/08/22	72	<i>Refer to #9005/048 for approx. test site locations.</i>	1.92	22.0	97.5	✘ 1.97	22.5	175	0.5 Drier	97.0	6	0	0	
3/08/22	73		1.92	23.5	99.0	1.94	25.0	175	1.5 Drier	93.0	0	0	0	
3/08/22	74		1.88	23.0	99.0	1.90	26.0	175	3.0 Drier	88.5	0	0	0	
3/08/22	75		2.03	22.5	106.0	1.92	24.5	175	1.5 Drier	93.0	0	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 12:40pm Finish Time: 1:45pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD



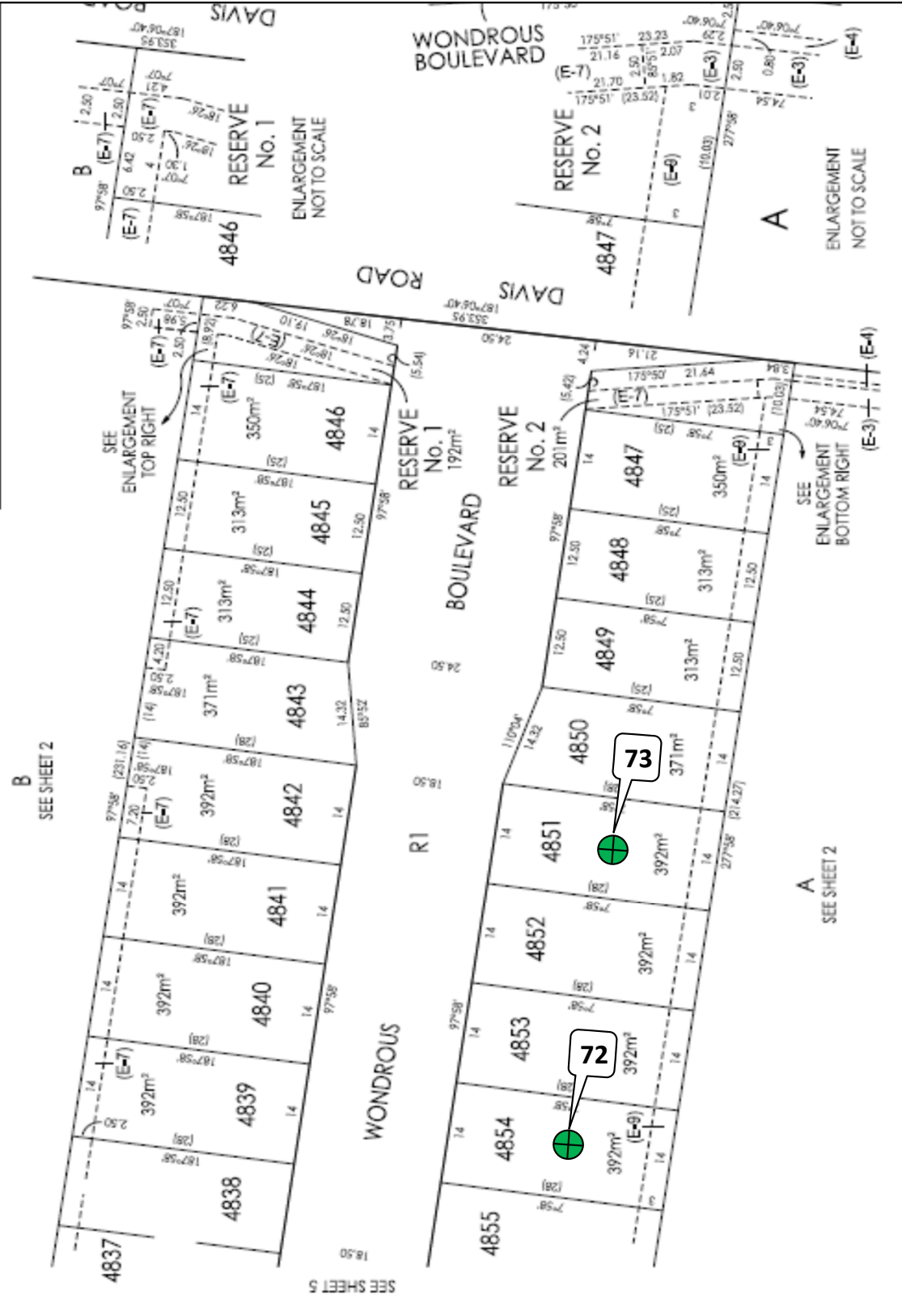
Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 9/8/2022

PLAN OF SUBDIVISION
 PLAN NUMBER
PS 844183



REF: 8352/48	VERSION: 4	ORIGINAL SHEET SIZE A3
<p>SCALE BAR: LENGTHS ARE IN METRES</p>		
SCALE	1:500	
Breese Pitt Dixon Pty Ltd 1/19 Cain Street Hawthorn East Vic 3123 Ph: 8623 2300 Fax: 8623 2310		



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
 ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 51

Sketch indicating compaction test locations

DATE: 3/08/2022

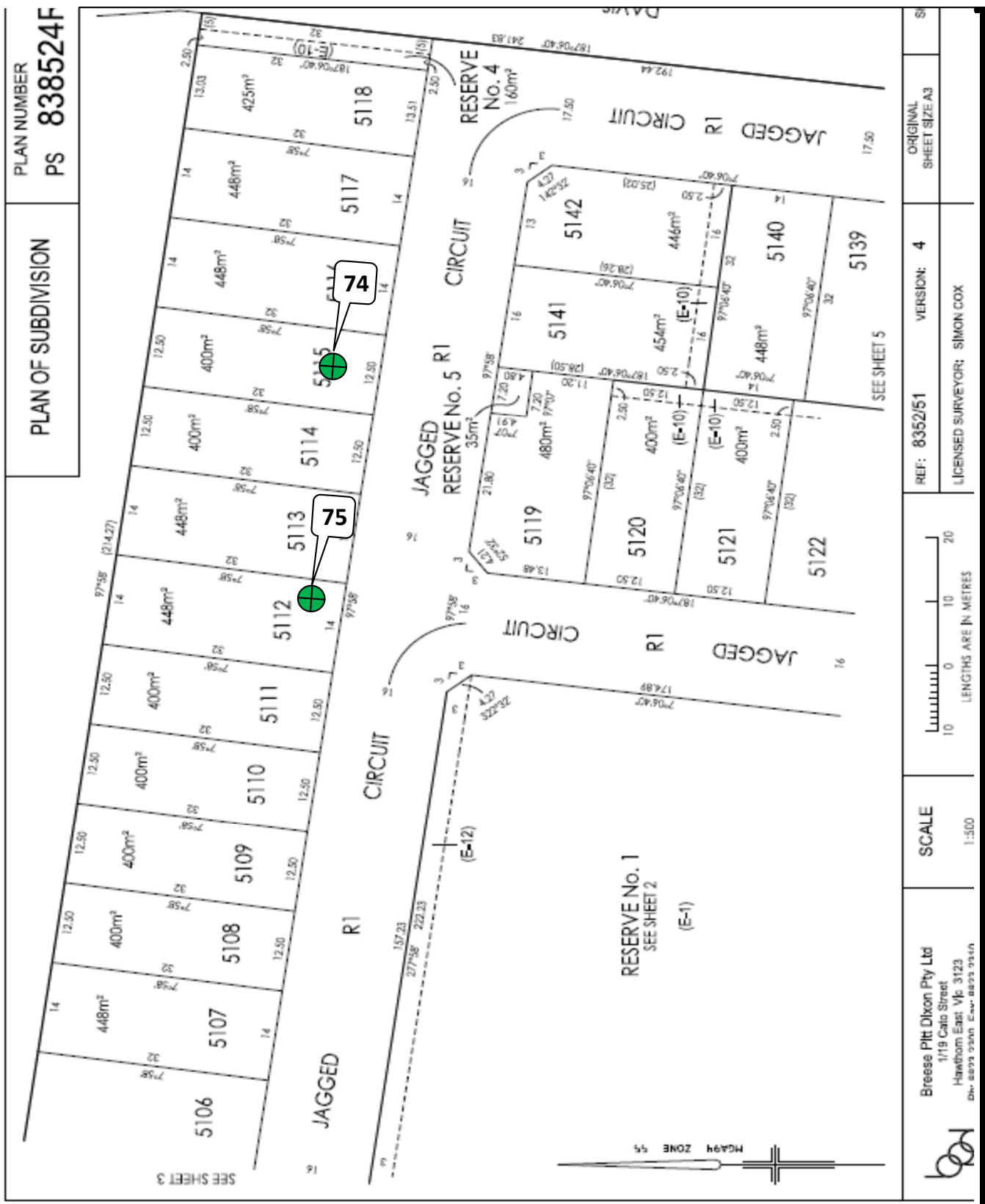
OPERATOR: BM

SCALE: NTS

JOB No.: 9005/048

CHECKED: KK

FIGURE No: 1 of 2



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ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS LOCATION: The Grove South West Precinct, Stage 48 & 51 Sketch indicating compaction test locations	DATE: 3/08/2022	JOB No.: 9005/048
	OPERATOR: BM	CHECKED: KK
	SCALE: NTS	FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/049

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
4/08/22	76	<i>Refer to #9005/050 for approx. test site locations.</i>	2.06	23.0	105.0	1.97	22.5	175	0.0 Wetter	101.0	0	0	1000	
4/08/22	77		1.91	29.5	98.0	1.95	27.5	175	2.0 Wetter	106.5	0	0	300	
4/08/22	78		2.00	17.0	96.5	✱ 2.07	18.5	175	1.0 Drier	93.5	6	0	0	
4/08/22	79		2.02	19.5	102.5	1.97	22.5	175	3.0 Drier	87.0	0	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 8:40am Finish Time: 9:20am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✱ Indicates APCWD

❖



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NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

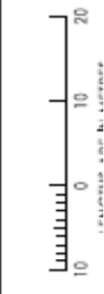
Issue Date: 10/8/2022

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 ORIGINAL SHEET SIZE A3 SHEET 4
LICENSED SURVEYOR: SIMON COX



SCALE
1:500

Breese Pitt Dixon Pty Ltd
1/19 Cain Street
Hawthorn East, Vic 3123
Ph: 8823 2300 Fax: 8823 2310



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48

Sketch indicating compaction test locations

DATE: 4/08/2022

JOB No.: 9005/050

OPERATOR: BM

CHECKED: KK

SCALE: NTS

FIGURE No: 1 of 3

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48	VERSION: 4	ORIGINAL SHEET SIZE A3	SHEET 3
LICENSED SURVEYOR: SIMON COX			
SCALE 1:500			
Breese Pitt Dixon Pty Ltd 1119 Cain Street Hawthorn East Vic 3123 Ph: 8823 2300 Fax: 8823 2310			



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48

Sketch indicating compaction test locations

DATE: 4/08/2022

OPERATOR: BM

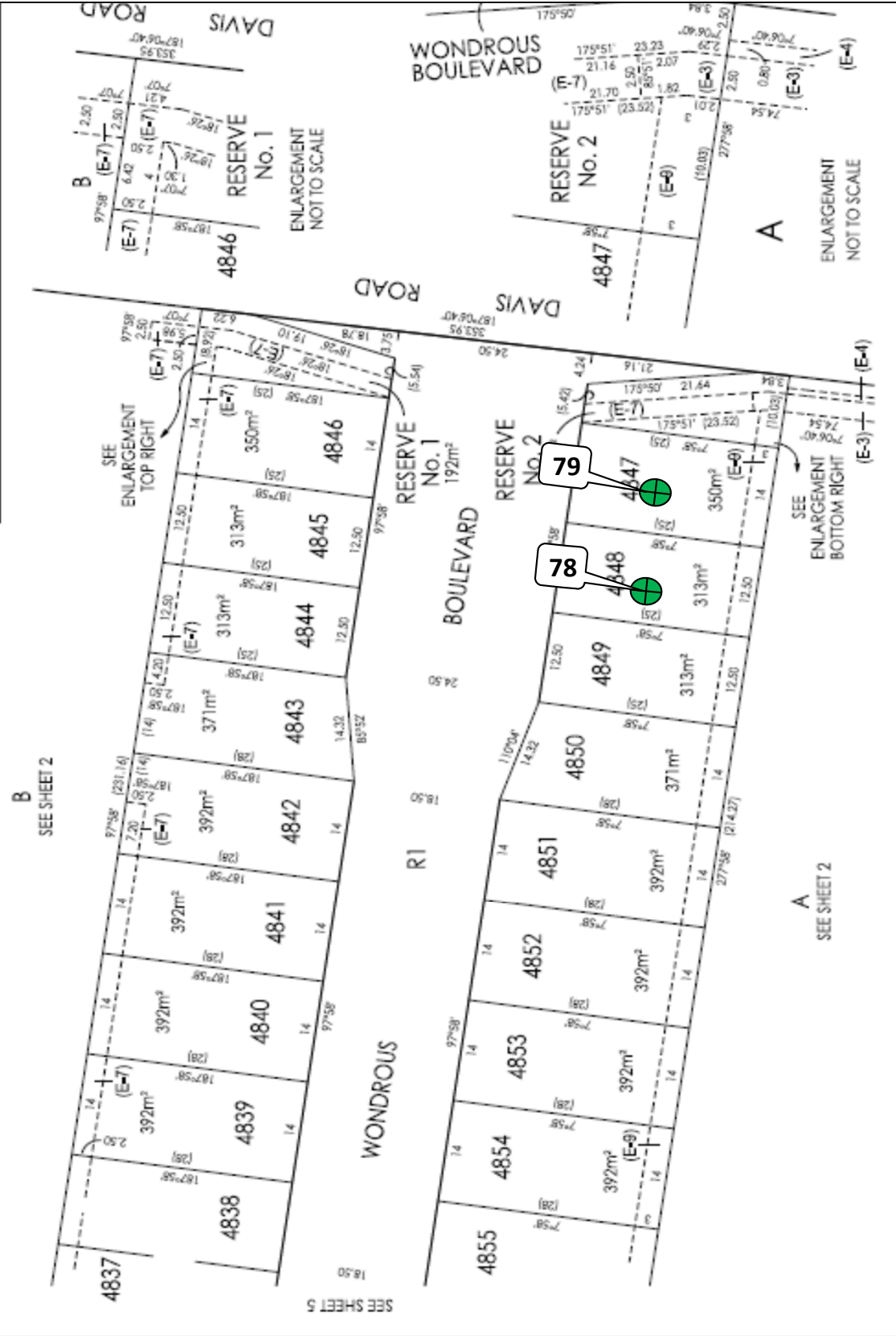
SCALE: NTS

JOB No.: 9005/050

CHECKED: KK

FIGURE No: 2 of 3

PLAN OF SUBDIVISION
 PLAN NUMBER
 PS 8441831



REF: 8352/48	VERSION: 4	ORIGINAL SHEET SIZE A3
LISCENSED SURVEYOR: SIMON COX		
SCALE	1:500	
Breese Pitt Dixon Pty Ltd 1719 Cain Street Hawthorn East Vic 3123 Ph: 8823 2300 Fax: 8823 2310		



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
 ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48

Sketch indicating compaction test locations

DATE: 4/08/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9005/050

CHECKED: KK

FIGURE No: 3 of 3



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/051

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
8/08/22	80	<i>Refer to #9005/052 for approx. test site locations.</i>	2.03	21.5	100.5	2.02	22.0	175	0.5 Drier	96.5	0	0	900	
8/08/22	81		1.93	21.0	105.0	✘ 1.84	26.5	175	5.0 Drier	80.5	5	0	400	
8/08/22	82		1.84	29.0	95.0	✘ 1.93	27.0	175	2.0 Wetter	106.5	6	0	300	
8/08/22	83		1.94	23.0	102.5	1.89	25.0	175	2.0 Drier	92.0	0	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 9:40am Finish Time: 12:35pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD



*Accredited for compliance with ISO/IEC
 17025 - Testing*

NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

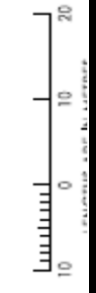
Issue Date: 12/8/2022

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 ORIGINAL SHEET SIZE A3 SHEET 4
LICENSED SURVEYOR: SIMON COX



SCALE
1:500

Breese Pitt Dixon Pty Ltd
1119 Cain Street
Hawthorn East Vic 3123
Ph: 8623 2300 Fax: 8623 2310



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48

Sketch indicating compaction test locations

DATE: 8/08/2022

JOB No.: 9005/052

OPERATOR: PS

CHECKED: KK

SCALE: NTS

FIGURE No: 1 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/053

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
9/08/22	84	<i>Refer to #9005/054 for approx. test site locations.</i>	1.86	26.5	102.0	1.82	29.5	175	3.0 Drier	89.5	0	0	300	
9/08/22	85		1.85	29.0	101.0	1.83	30.5	175	1.5 Drier	95.0	0	0	500	
9/08/22	86		1.89	23.0	102.5	1.85	26.5	175	3.5 Drier	86.0	0	0	600	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 2:00pm Finish Time: 2:30pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

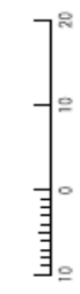
Issue Date: 15/8/2022

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 ORIGINAL SHEET SIZE A3 SHEET 4
LICENSED SURVEYOR: SIMON COX



SCALE
1:500

Breese Pitt Dixon Pty Ltd
1/19 Cain Street
Hawthorn East, Vic 3123
PH: 8623 9340 FAX: 8623 9310



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48

Sketch indicating compaction test locations

DATE: 9/08/2022

JOB No.: 9005/054

OPERATOR: BM

CHECKED: KK

SCALE: NTS

FIGURE No: -



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/055

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
10/08/22	87	<i>Refer to #9005/056 for approx. test site locations.</i>	1.91	27.5	101.0	1.89	27.5	175	0.0 Drier	100.0	0	0	0	
10/08/22	88		1.92	25.0	105.0	1.83	27.5	175	2.5 Drier	91.0	0	0	0	
10/08/22	89		1.88	30.5	105.0	1.79	33.0	175	2.5 Drier	93.0	0	0	600	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 8:15am Finish Time: 8:50am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



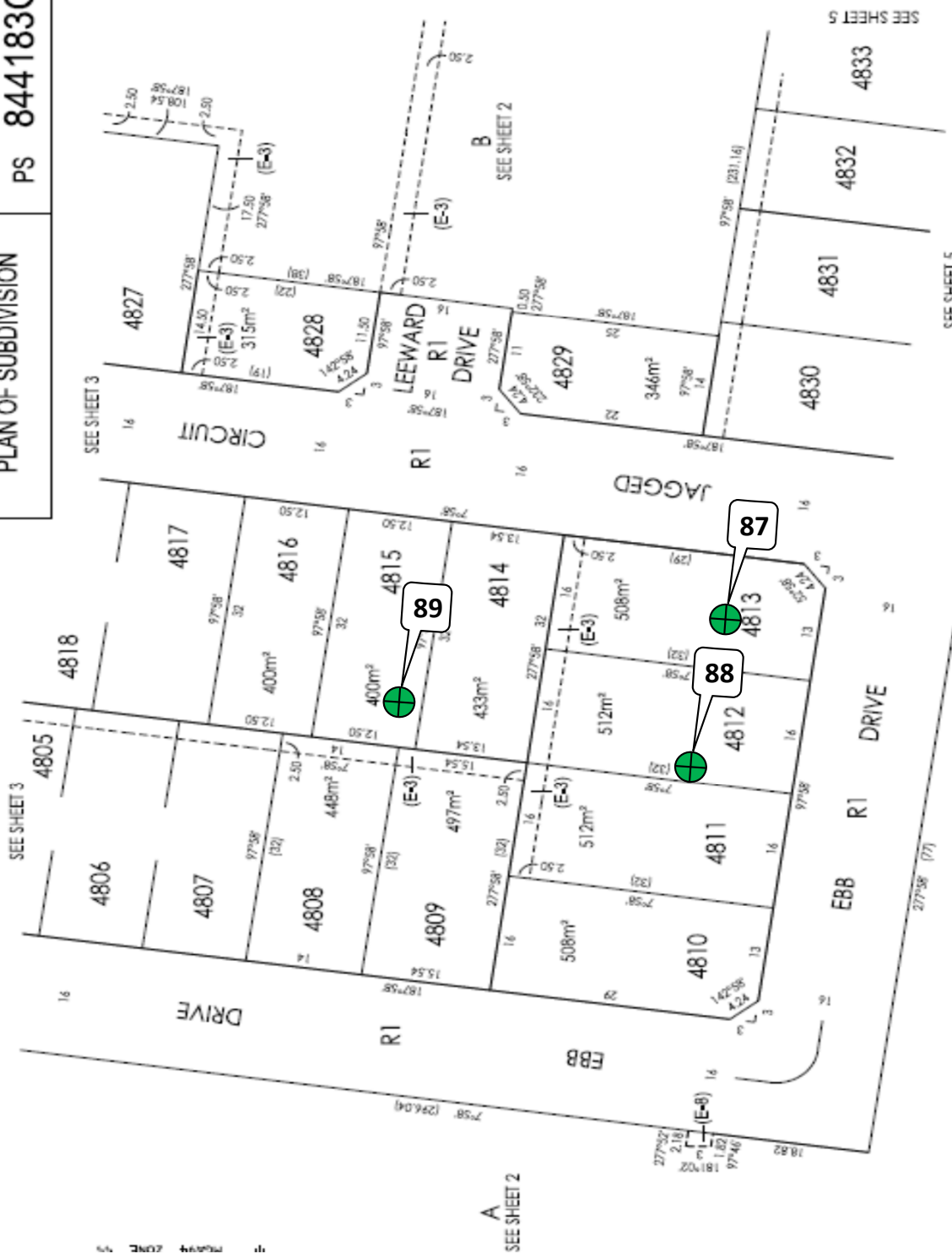
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NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 16/8/2022

PLAN OF SUBDIVISION
 PS 844183G



REF: 8352/48
 VERSION: 4
 LICENSED SURVEYOR: SIMON COX



SCALE
 1:500

Breese Pitt Dixon Pty Ltd
 1/19 Cain Street
 Hawthorn East, VIC 3123
 PH: 8523 9300 FAX: 8523 9310



**GEOTECHNICAL
 LABORATORIES**

**GEOTECHNICAL LABORATORIES
 ACN 102 571 077**

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 48
Sketch indicating compaction test locations

DATE: 10/08/2022
OPERATOR: BM
SCALE: NTS

JOB No.: 9005/056
CHECKED: KK
FIGURE No: -



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9003/002

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 46 & 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
11/08/22	1	<i>Refer to #9003/003 for approx. test site locations.</i>	1.92	25.5	98.5	1.95	25.0	175	0.5 Wetter	101.0	0	0	300	
11/08/22	2		2.03	24.0	102.0	1.99	22.5	175	1.5 Wetter	107.5	0	0	300	
11/08/22	3		2.11	20.5	107.0	1.97	22.5	175	2.0 Drier	90.5	0	0	300	
11/08/22	4		1.81	25.0	99.5	1.81	28.0	175	3.0 Drier	89.5	0	0	200	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 8:30am Finish Time: 10:30am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



*Accredited for compliance with ISO/IEC
 17025 - Testing*

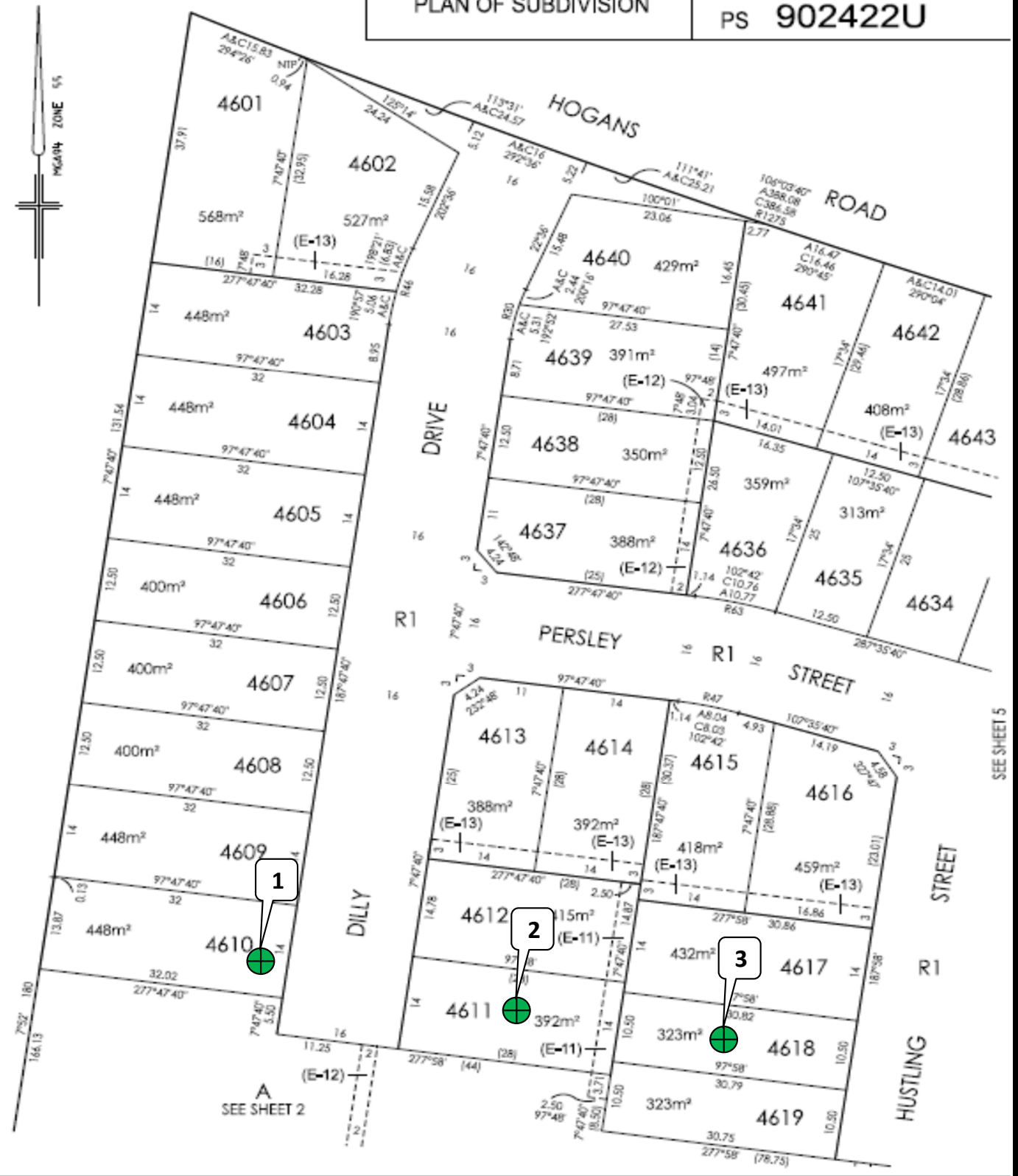
NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

Issue Date: 18/8/2022

PLAN OF SUBDIVISION

PLAN NUMBER
PS 902422U



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 46 & 48

Sketch indicating compaction test locations

DATE: 11/08/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9003/003

CHECKED: KK

FIGURE No: 1 of 2

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 ORIGINAL SHEET SIZE A3 SHEET 4
LICENSED SURVEYOR: SIMON COX



SCALE
1:500

Breese Pitt Dixon Pty Ltd
1/19 Calo Street
Hawthorn East Vic 3123
Ph: 8823 2300 Fax: 8823 2310



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 46 & 48

Sketch indicating compaction test locations

DATE: 11/08/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9003/003

CHECKED: KK

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/057

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 46 &48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
15/08/22	90	<i>Refer to #9005/058 for approx. test site locations.</i>	1.96	21.5	95.0	✘ 2.06	20.5	175	1.0 Wetter	105.0	3	0	0	
15/08/22	91		1.87	23.5	96.0	1.95	23.0	175	0.5 Wetter	102.0	0	0	0	
15/08/22	92		2.02	26.0	102.0	1.98	25.5	175	0.5 Wetter	102.0	0	0	300	
15/08/22	93		1.99	24.5	100.0	1.99	24.0	175	0.5 Wetter	102.0	0	0	300	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 8:30am Finish Time: 9:15am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD



Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

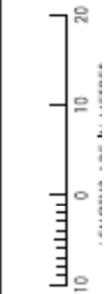
Issue Date: 19/8/2022

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 ORIGINAL SHEET SIZE A3 SHEET 4



SCALE
1:500

ise Pitt Dixon Pty Ltd
1/19 Cain Street
Whom East V/B 3123
123 2300 Fax: 8823 2310



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 46 & 48

Sketch indicating compaction test locations

DATE: 15/08/2022

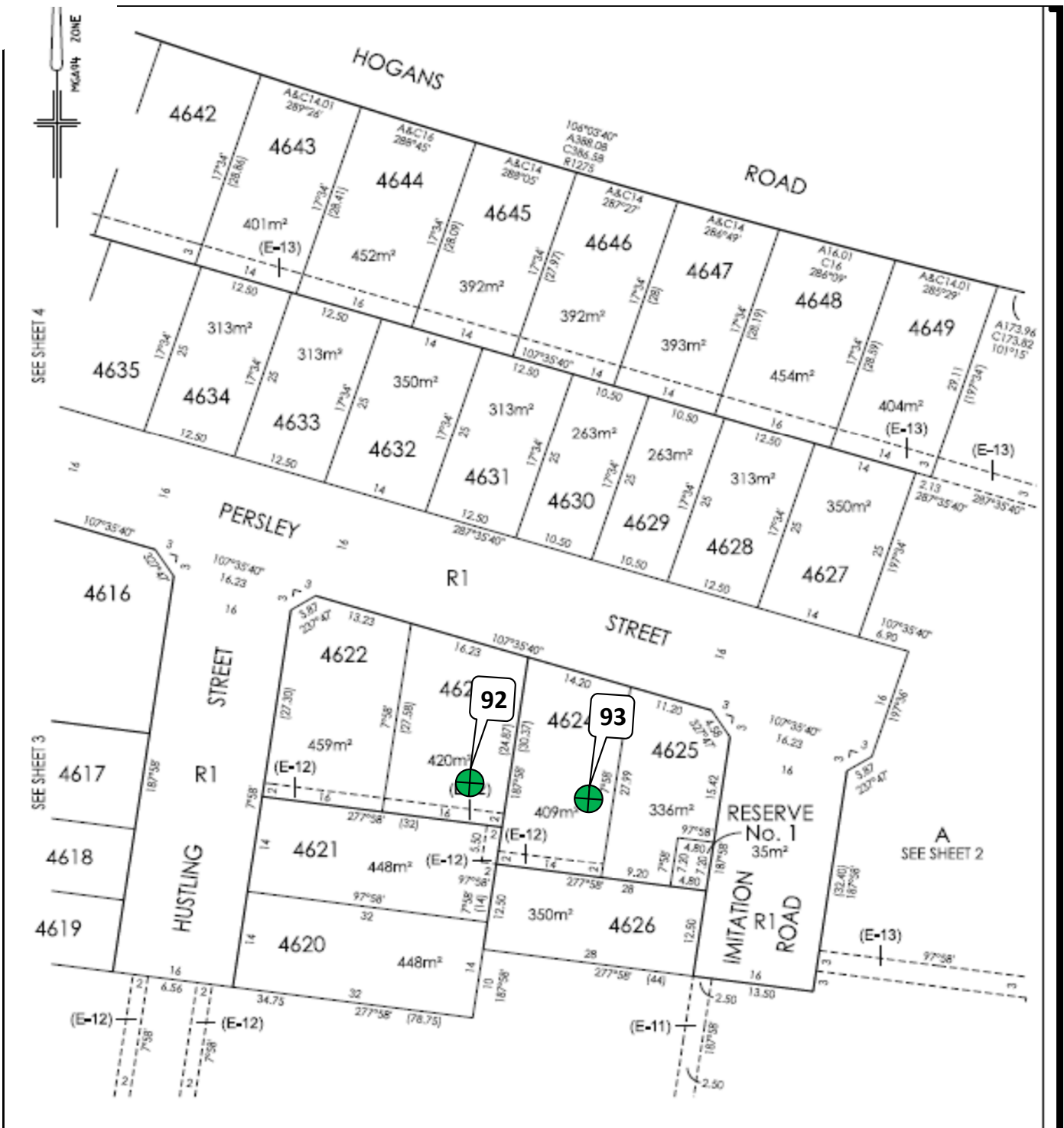
OPERATOR: BM


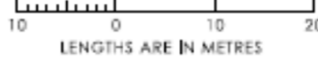
SCALE: NTS

JOB No.: 9005/058

CHECKED: KK

FIGURE No: 1 of 2



 <p>Breese Pitt Dixon Pty Ltd 1/19 Cato Street Hawthorn East Vic 3123 Ph: 8823 2300 Fax: 8823 2310 www.bpd.com.au Info@bpd.com.au</p>	SCALE 1:500	 <p>LENGTHS ARE IN METRES</p>	ORIGINAL SHEET SIZE A3	SHEET 5
	LICENSED SURVEYOR: SIMON COX		REF: 8352/46	VERSION: 2



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS	DATE: 15/08/2022	JOB No.: 9005/058
LOCATION: The Grove South West Precinct, Stage 46 & 48	OPERATOR: BM	CHECKED: KK
Sketch indicating compaction test locations	SCALE: NTS	FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9004/003

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 46, 47 & 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
16/08/22	1	<i>Refer to #9004/004 for approx. test site locations.</i>	1.92	24.5	98.0	1.96	25.0	175	0.5 Drier	98.0	0	0	0	
16/08/22	2		1.92	25.5	98.5	1.95	25.0	175	0.5 Wetter	102.0	0	0	400	
16/08/22	3		1.99	24.5	101.5	✘ 1.96	24.0	175	0.0 Wetter	101.0	3	0	400	
16/08/22	4		2.06	22.0	107.5	1.91	24.5	175	2.5 Drier	90.0	0	0	400	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 9:30am Finish Time: 10:30am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD

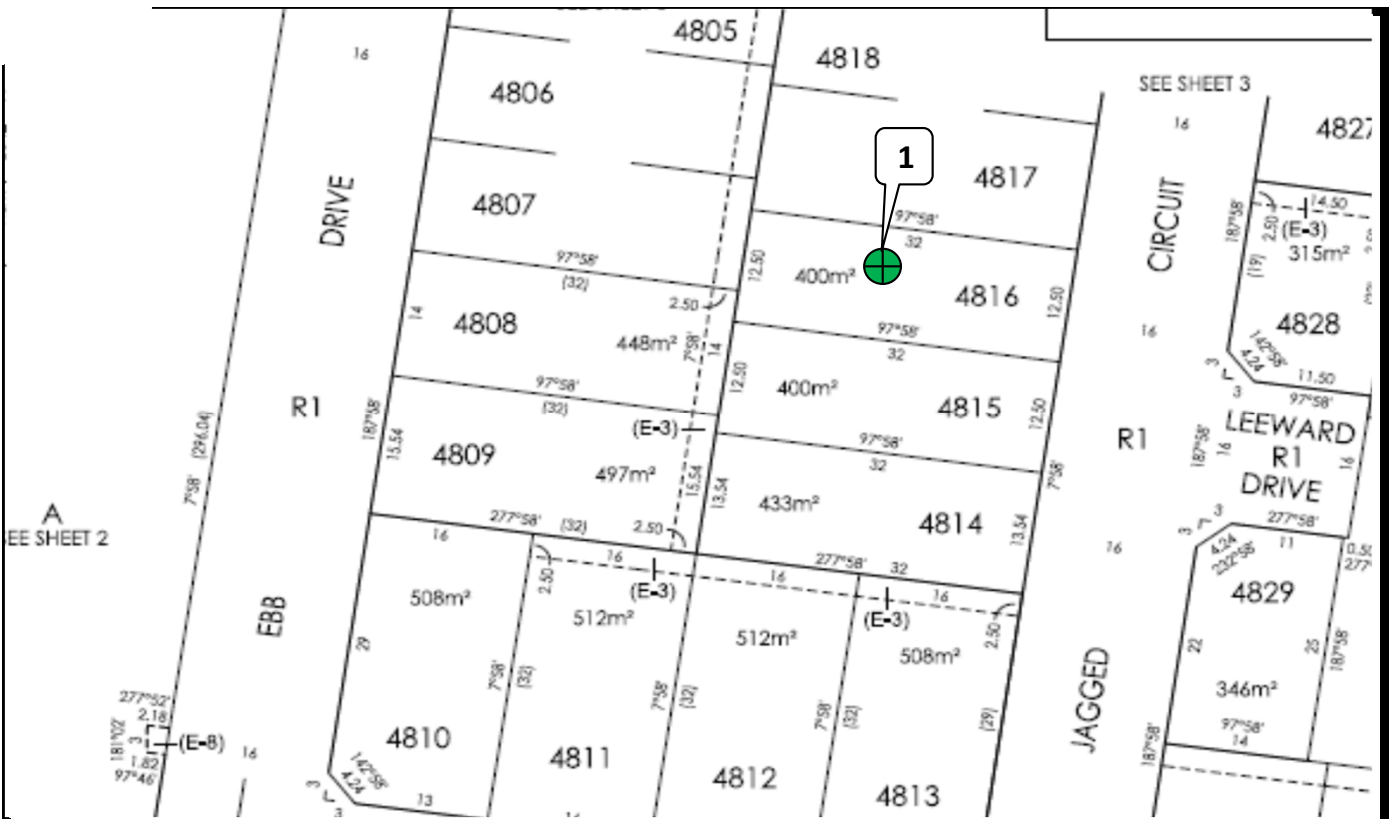


Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 22/8/2022



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 46, 47 & 48

Sketch indicating compaction test locations

DATE: 16/08/2022

OPERATOR: BM

SCALE: NTS

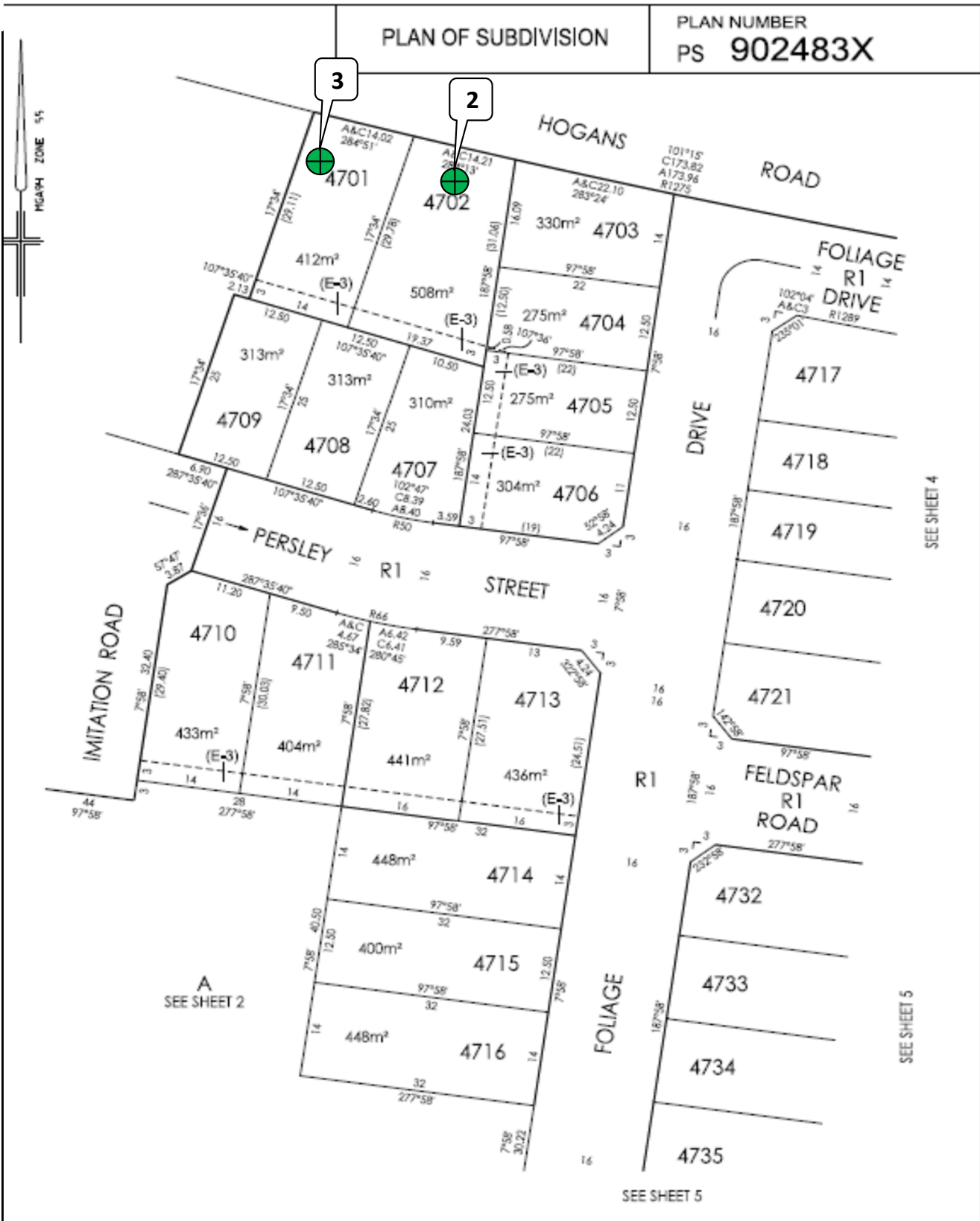
JOB No.: 9004/004

CHECKED: KK

FIGURE No: 1 to 2

PLAN OF SUBDIVISION

PLAN NUMBER
PS 902483X



SCALE ORIGINAL



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 46, 47 & 48

Sketch indicating compaction test locations

DATE: 16/08/2022

OPERATOR: BM

SCALE: NTS

JOB No.: 9004/004

CHECKED: KK

FIGURE No: 2 to 2



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/065

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 46 & 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
17/08/22	94	<i>Refer to #9005/066 for approx. test site locations.</i>	2.06	23.0	100.0	2.06	21.5	175	1.5 Wetter	108.0	0	0	800	
17/08/22	95		2.03	26.5	101.5	2.00	24.0	175	2.5 Wetter	110.5	0	0	800	
17/08/22	96		1.91	27.5	97.5	1.96	25.5	175	2.0 Wetter	108.0	0	0	200	
17/08/22	97		1.93	26.5	99.5	1.95	26.0	175	0.5 Wetter	102.0	0	0	200	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11:30am Finish Time: 12:30pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



*Accredited for compliance with ISO/IEC
 17025 - Testing*

NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

Issue Date: 23/8/2022

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 ORIGINAL SHEET SIZE A3 SHEET 4

LICENSED SURVEYOR: SIMON COX



SCALE
1:500

ise Pitt Dixon Pty Ltd
1/19 Cain Street
Whom East V/B 3123
123 2300 Fax: 8823 2310



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 46 & 48

Sketch indicating compaction test locations

DATE: 17/08/2022

JOB No.: 9005/066

OPERATOR: RR/AL

CHECKED: KK

SCALE: NTS

FIGURE No: 1 of 2



GEOTECHNICAL LABORATORIES
ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS
LOCATION: The Grove South West Precinct, Stage 46 & 48
Sketch indicating compaction test locations

DATE: 17/08/2022	JOB No.: 9005/066
OPERATOR: RR/AI	CHECKED: KK
SCALE: NTS	FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/067

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 46 & 48

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
18/08/22	98	<i>Refer to #9005/068 for approx. test site locations.</i>	1.91	24.5	95.5	✘ 2.00	23.5	175	1.0 Wetter	104.0	3	0	0	
18/08/22	99		1.94	26.5	98.0	✘ 1.98	25.0	175	2.0 Wetter	107.0	4	0	0	
18/08/22	100		1.87	25.5	95.5	1.96	24.5	175	1.0 Wetter	104.0	0	0	0	
18/08/22	101		1.87	23.5	97.0	1.93	24.5	175	1.0 Drier	96.0	0	0	400	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 1:40pm Finish Time: 1:30pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✘ Indicates APCWD



*Accredited for compliance with ISO/IEC
 17025 - Testing*

NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

Issue Date: 23/8/2022

PLAN OF SUBDIVISION

PLAN NUMBER
PS 902422U



SCALE

ORIGINAL



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 46 & 48

Sketch indicating compaction test locations

DATE: 18/08/2022

JOB No.: 9005/068

OPERATOR: PS/BM

CHECKED: KK

SCALE: NTS

FIGURE No: 1 of 2

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



SEE SHEET 4

SEE SHEET 4

SHEET 3

ORIGINAL SHEET SIZE A3

VERSION: 4

REF: 8352/48

SCALE
1:500

SCALE

Breese Pitt Dixon Pty Ltd
1/19 Cato Street
Hawthorn East Vic 3123
Ph: 8823 2300 Fax: 8823 2310

LICENSED SURVEYOR: SIMON COX



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 46 & 48

Sketch indicating compaction test locations

DATE: 18/08/2022

JOB No.: 9005/068

OPERATOR: PS/BM

CHECKED: KK

SCALE: NTS

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9005/069

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 57

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
22/08/22	102	<i>Refer to #9005/070 for approx. test site locations.</i>	1.96	24.0	100.0	1.96	23.5	175	0.0 Wetter	101.0	0	0	300	
22/08/22	103		1.89	25.0	95.5	1.97	24.0	175	0.5 Wetter	103.0	0	0	0	
22/08/22	104		1.87	25.0	96.5	1.94	25.0	175	0.5 Wetter	101.0	0	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 12:15pm Finish Time: 1:25pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 25/8/2022

PLAN NUMBER
PS 844183G

PLAN OF SUBDIVISION



REF: 8352/48 VERSION: 4 ORIGINAL SHEET SIZE A3 SHEET 3
LICENSED SURVEYOR: SIMON COX



SCALE
1:500

Breese Pitt Dixon Pty Ltd
1/19 Cato Street
Hawthorn East Vic 3123
Ph: 8823 2300 Fax: 8823 2310



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: The Grove South West Precinct, Stage 48 & 57

Sketch indicating compaction test locations

DATE: 23/08/2022

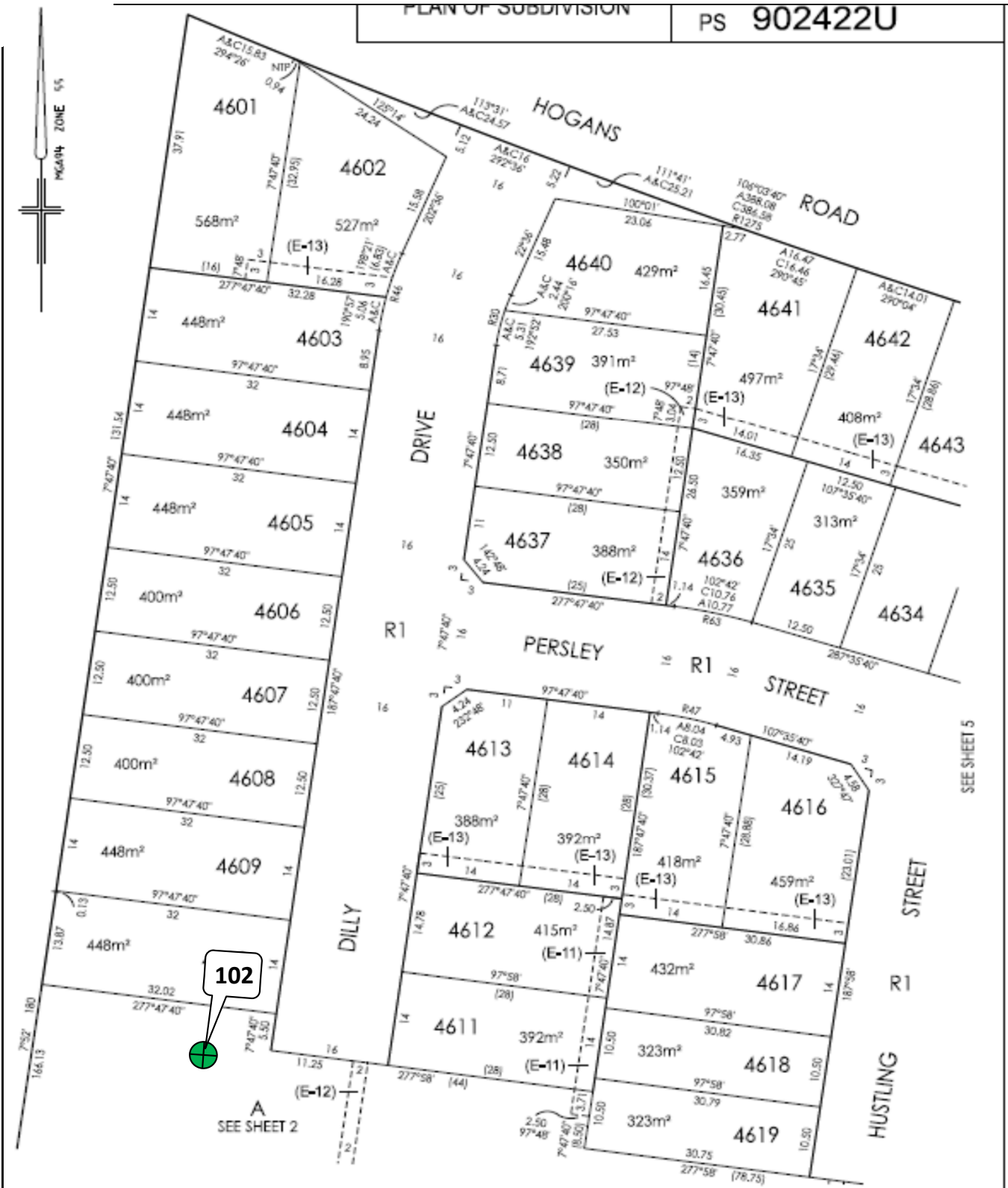
JOB No.: 9005/070

OPERATOR: SLI/AB

CHECKED: KK

SCALE: NTS

FIGURE No: 1 of 2



102

A
SEE SHEET 2

Breese Pitt Dixon Pty Ltd 1/19 Cato Street	SCALE	1:500	<p>LENGTHS ARE IN METRES</p>	ORIGINAL SHEET SIZE A3	SHEET 4
				REP: 8352/46	VERSION: 2



GEOTECHNICAL LABORATORIES
ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS LOCATION: The Grove South West Precinct, Stage 48 & 57 Sketch indicating compaction test locations	DATE: 23/08/2022	JOB No.: 9005/070
	OPERATOR: SLI/AB	CHECKED: KK
	SCALE: NTS	FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

DATE: 19/10/2022

JOB No.: 9038/008

LOCATI Ge Grove, South West Precinct, Stage 55 &

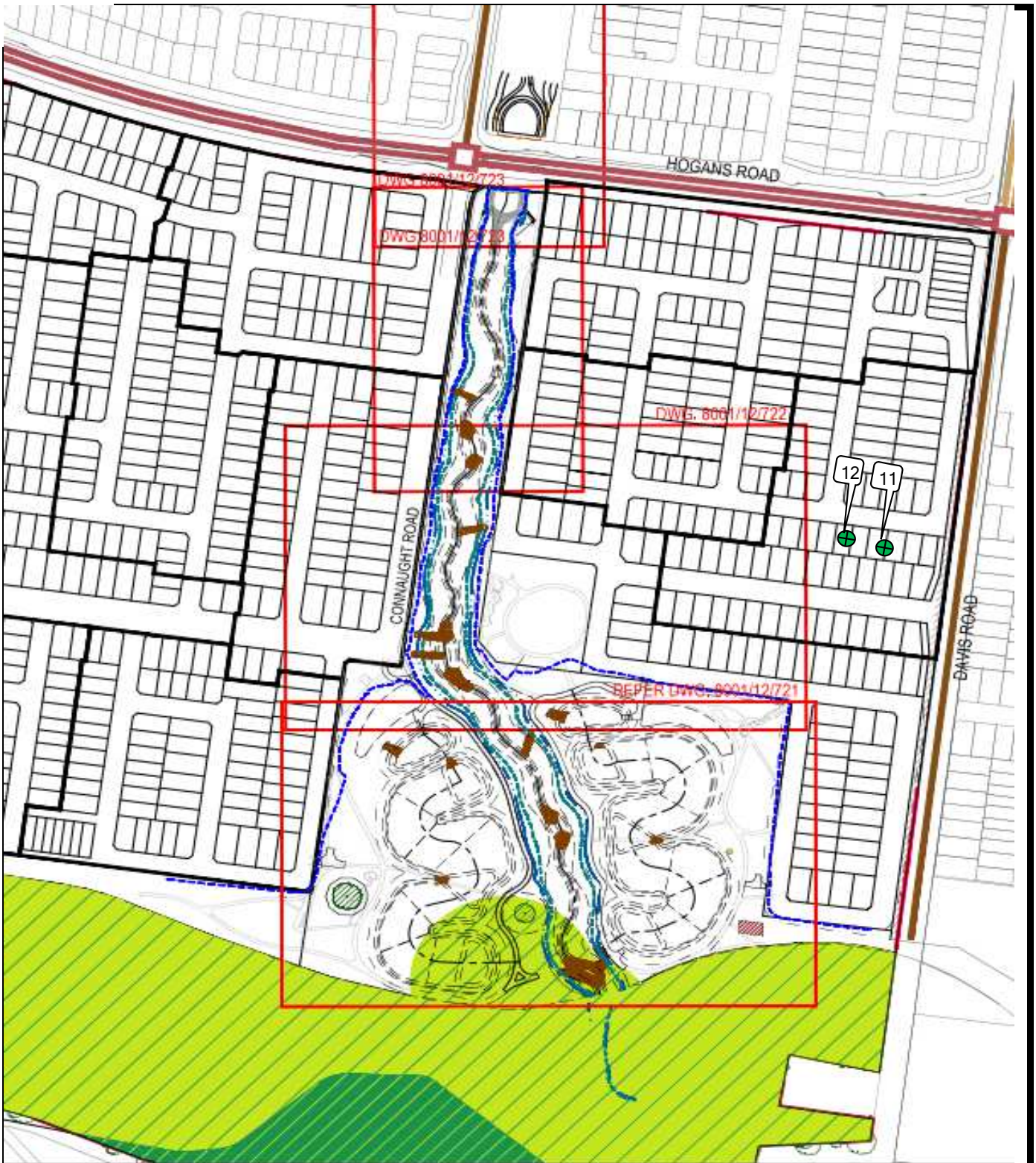
OPERATOR: PS

CHECKED: KK

Sketch indicating compaction test locations

SCALE: NTS

FIGURE No: 1 of 2



PROJECT DESCRIPTION	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	DRAWN AUTH. REF.
COUNCIL FOR APPROVAL	SJATHASIVAM	JORDAENS	LARRY	PARULJE	19/10/22	8001-110012
RE FOR APPROVAL	SJATHASIVAM	JORDAENS	LARRY	PARULJE		UNGC DWG REF.
RE & COUNCIL FOR APPROVAL	KUNDEMAN	MUSEMAN	SLAM	PARULJE		



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS	DATE: 19/10/2022	JOB No.: 9038/008
LOCATI Ce Grove, South West Precinct, Stage 55 &	OPERATOR: PS	CHECKED: KK
Sketch indicating compaction test locations	SCALE: NTS	FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9038/005

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 55

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
18/10/22	5	<i>Refer to #9038/006 for approx. test site locations.</i>	1.95	27.5	104.5	1.87	28.0	175	0.5 Drier	98.0	0	0	0	
18/10/22	6		1.96	26.0	105.0	1.87	26.5	175	1.0 Drier	97.0	0	0	0	
18/10/22	7		1.81	29.0	96.0	1.89	28.5	175	0.5 Wetter	102.0	0	0	0	
18/10/22	8		1.84	31.0	99.0	1.85	31.0	175	0.0 Drier	100.0	0	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 10:00am Finish Time: 10:40am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

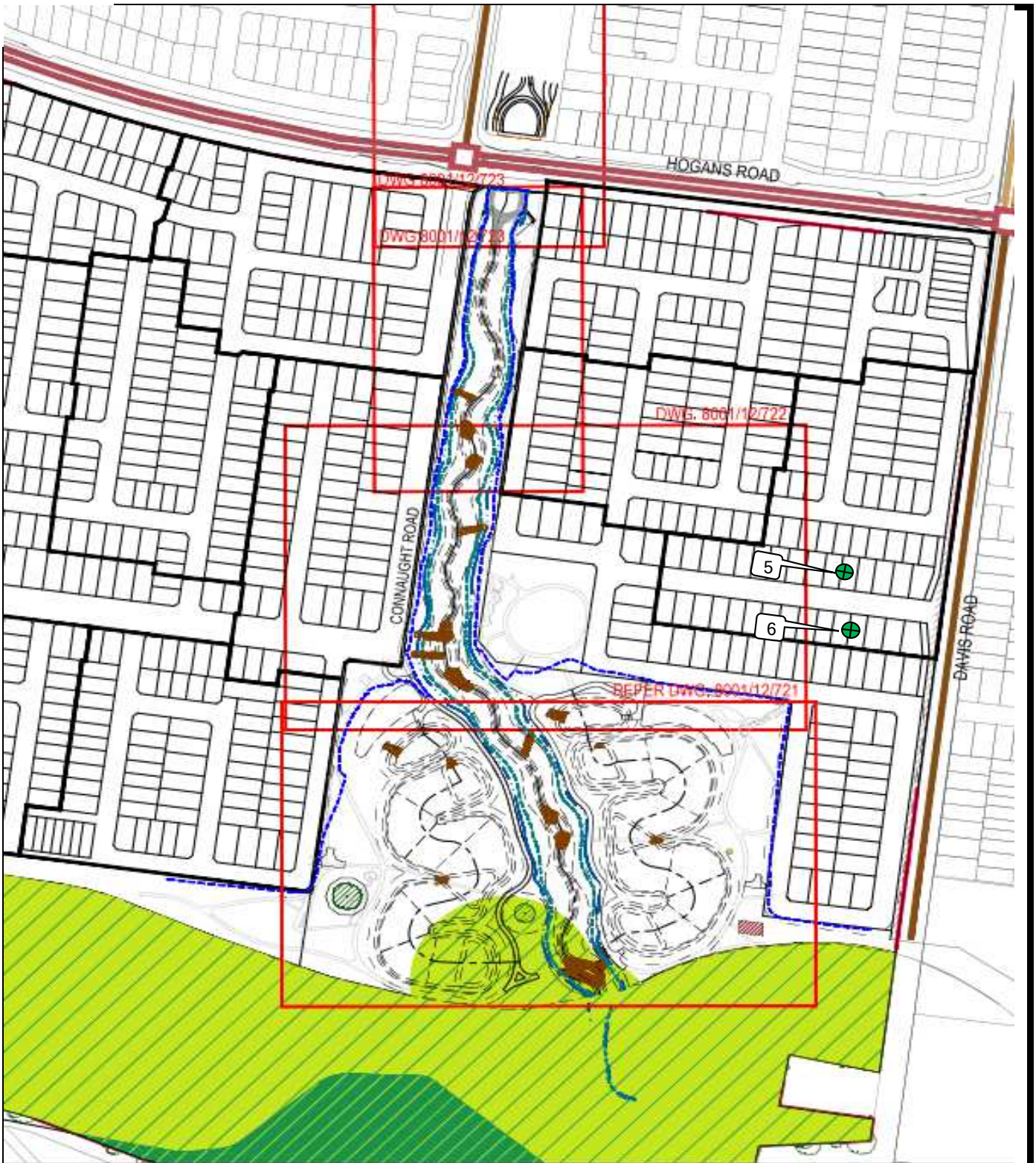


*Accredited for compliance with ISO/IEC
 17025 - Testing*

NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

Issue Date: 24/10/2022



PRELIMINARY DESCRIPTION COUNCIL FOR APPROVAL REF FOR APPROVAL REF & COUNCIL FOR APPROVAL	DRAFTER S/ATHANAWAN S/ATHANAWAN K/RYEDMAN	DESIGNER J/ORDTACS J/ORDTACS M/REEMAN	CHECKER T/LARRY T/LARRY S/LAM	APPROVER P/PARELLE P/PARELLE P/PARELLE		DRAWN AUTH. REF. 8001-118012 DWG DWS REF.
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**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS	DATE: 18/10/2022	JOB No.: 9038/006
LOCATI Ce Grove, South West Precinct, Stage 55 &	OPERATOR: SA	CHECKED: KK
Sketch indicating compaction test locations	SCALE: NTS	FIGURE No: 1 of 2



SMC Engineering
 FRASERS PROPERTY
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GEOTECHNICAL LABORATORIES

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ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

DATE: 18/10/2022

JOB No.: 9038/006

LOCATI Ge Grove, South West Precinct, Stage 55 &

OPERATOR: SA

CHECKED: KK

Sketch indicating compaction test locations

SCALE: NTS

FIGURE No: 2 of 2



GEOTECHNICAL LABORATORIES
 ACN 102 571 077
 14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9038/013

LOCATION: SYMON BROS - The Grove, South West Precinct, Stage 48 & 55

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
20/10/22	13	<i>Refer to #9038/014 for approx. test site locations.</i>	1.89	31.0	101.5	1.86	31.0	175	0.5 Drier	99.0	0	0	400	
20/10/22	14		1.89	28.0	97.5	1.93	27.0	175	1.0 Wetter	104.0	0	0	400	
20/10/22	15		1.93	22.5	95.0	2.02	21.0	175	1.5 Wetter	108.0	0	0	0	
20/10/22	16		1.96	27.5	95.0	✱ 2.06	24.0	175	3.5 Wetter	113.5	5	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 8:10am Finish Time: 9:20am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation ,Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✱ Indicates APCWD

❖

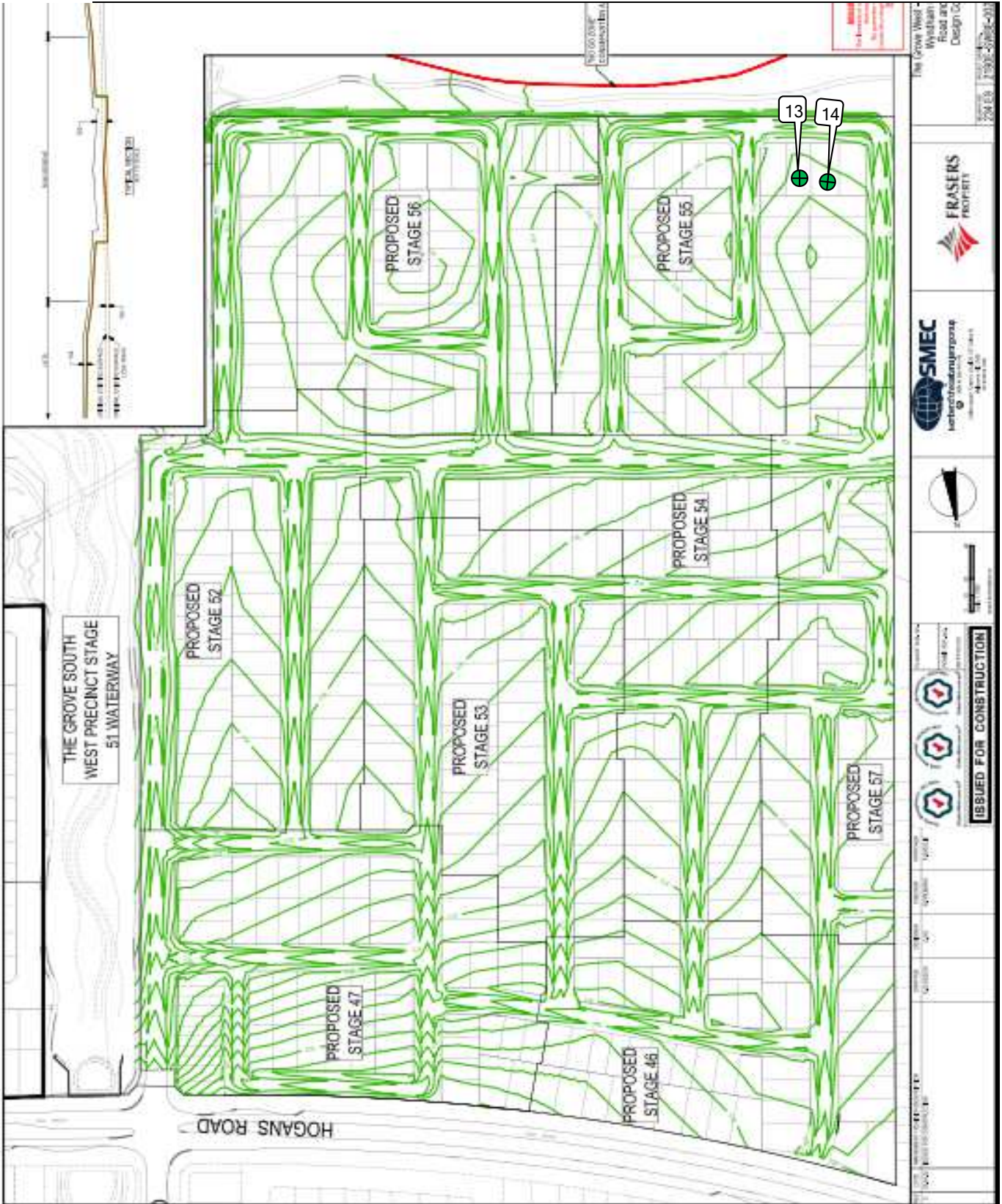


Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 25/10/2022



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

DATE: 20/10/2022

JOB No.: 9038/014

LOCATI Ge Grove, South West Precinct, Stage 55 &

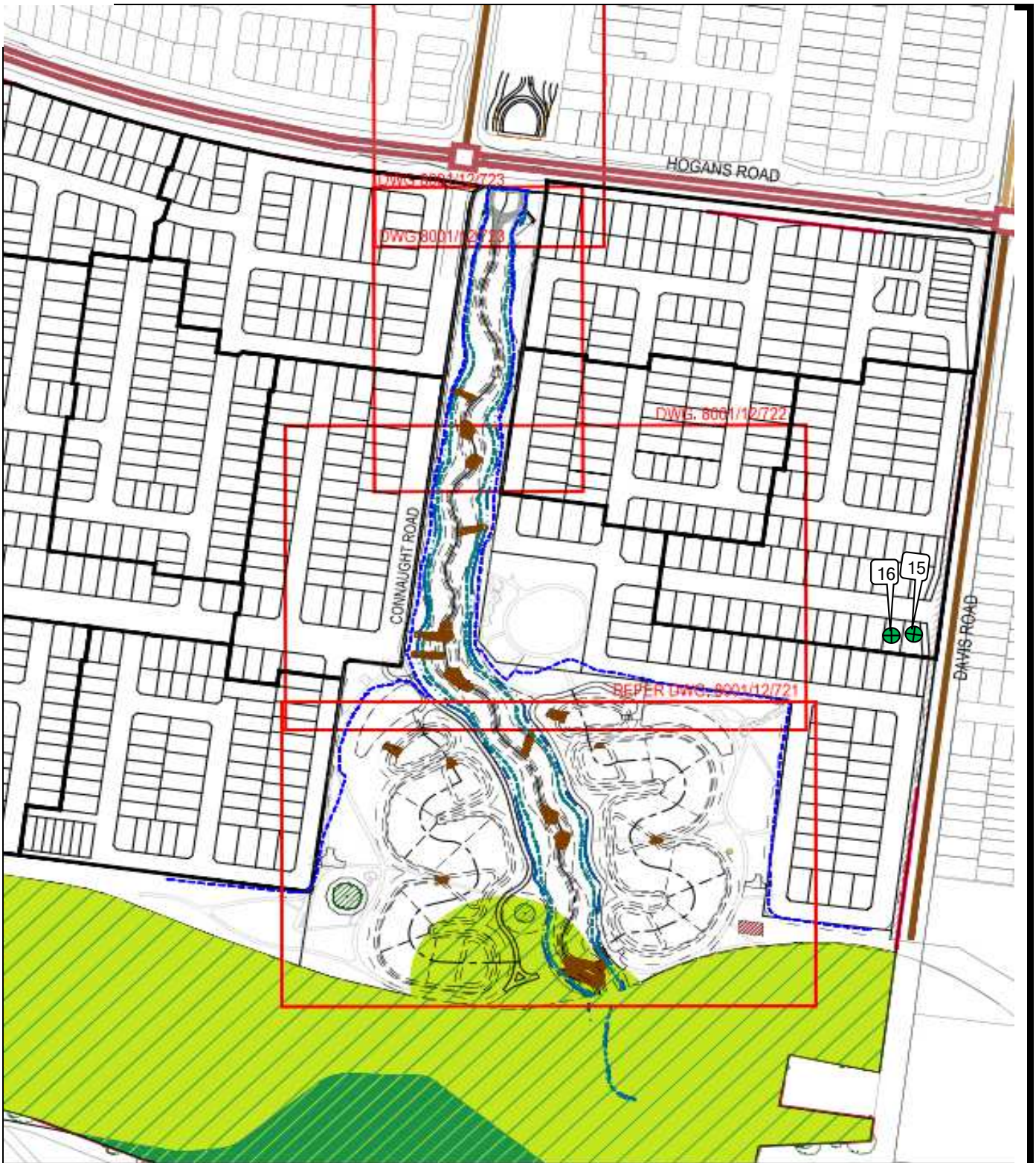
OPERATOR: SLI

CHECKED: KK

Sketch indicating compaction test locations

SCALE: NTS

FIGURE No: 1 of 2



PRELIMINARY DESCRIPTION COUNCIL FOR APPROVAL REF FOR APPROVAL REF & COUNCIL FOR APPROVAL	DRAFTER S/ATHANAWAN S/ATHANAWAN K/REEMAN	DESIGNER J/ORDAERS J/ORDAERS M/REEMAN	CHECKER T/LARRY T/LARRY S/LAM	APPROVER P/SARLUE P/SARLUE P/SARLUE		DRAWN AUTH. REF. 8001-110012 DWG. DWS. REF.
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 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS LOCATI Ce Grove, South West Precinct, Stage 55 & Sketch indicating compaction test locations	DATE: 20/10/2022	JOB No.: 9038/014
	OPERATOR: SLI	CHECKED: KK
	SCALE: NTS	FIGURE No: 2 of 2