

Reference
No.: 9032-031

LEVEL ONE

SURVEILLANCE

AND INSPECTION REPORT

*Carried Out
By*



PREPARED FOR: -

451 BEATTYS DEVELOPMENT PTY LTD



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Appendix A Construction Drawings

Appendix B Daily Field Compaction Summary Results



Client Name: 451 Beattys Development Pty Ltd

Project Name: Botania Estate Stage 6A

Date: 24th of May 2023

Author: Mr. Sam Loza

Reference No.: 9032-031

Revision: 0

Project Manager: Mr. Dom Modric

1. Introduction & Scope

At the request of 451 Beattys Development Pty Ltd, Geotechnical Laboratories has carried out inspection and testing of the above-mentioned site from the 30th of September 2022 to the 18th 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 451 Beattys Development Pty Ltd and was used to determine compliance of earthworks in conjunction with the requirements of AS 3798 – 2007.

(1). Road & Drainage Layout Plan Drawing Number 3070E-06A-111 (Rev. C).

General site works involved the placement of fill, using mainly on-site derived materials, to bring the fill construction regions to the required finished levels as indicated on the civil construction drawings.

2. Site Preparation

Site inspections were undertaken on the 29th of September 2022 confirming that selected areas to be filled were completely stripped of topsoil prior to filling. The topsoils were stockpiled around the site for later removal off-site.

Initial proof roll inspections were performed and subsequently throughout the project duration to ensure no significant soft areas were present prior to filling.

3. Fill Material

The fill material used was sourced from service trench excavations, road boxing and site cut areas. The material was screened to remove any boulders.



The material is best described as a basaltic CLAY, brown, red brown, slightly moist to moist, medium plasticity with gravels and cobbles of a basalt origin.

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:

- Highway trucks / dump trucks
- A watercart
- A sheepsfoot compactor (815)
- A dozer

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

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 thirty-eight 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 **Type 1 - 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 half density ratio not less than 95 percent of the maximum half density value as determined by the Standard Half 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, 451 Beattys Development 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 451 Beattys Development Pty Ltd from the 30th of September 2022 to the 18th 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 451 Beattys Development 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 451 Beattys Development 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.

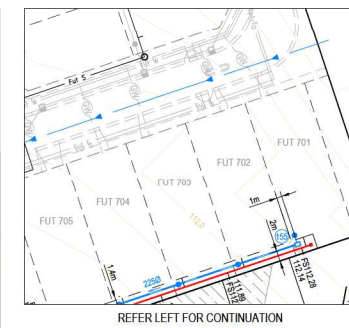
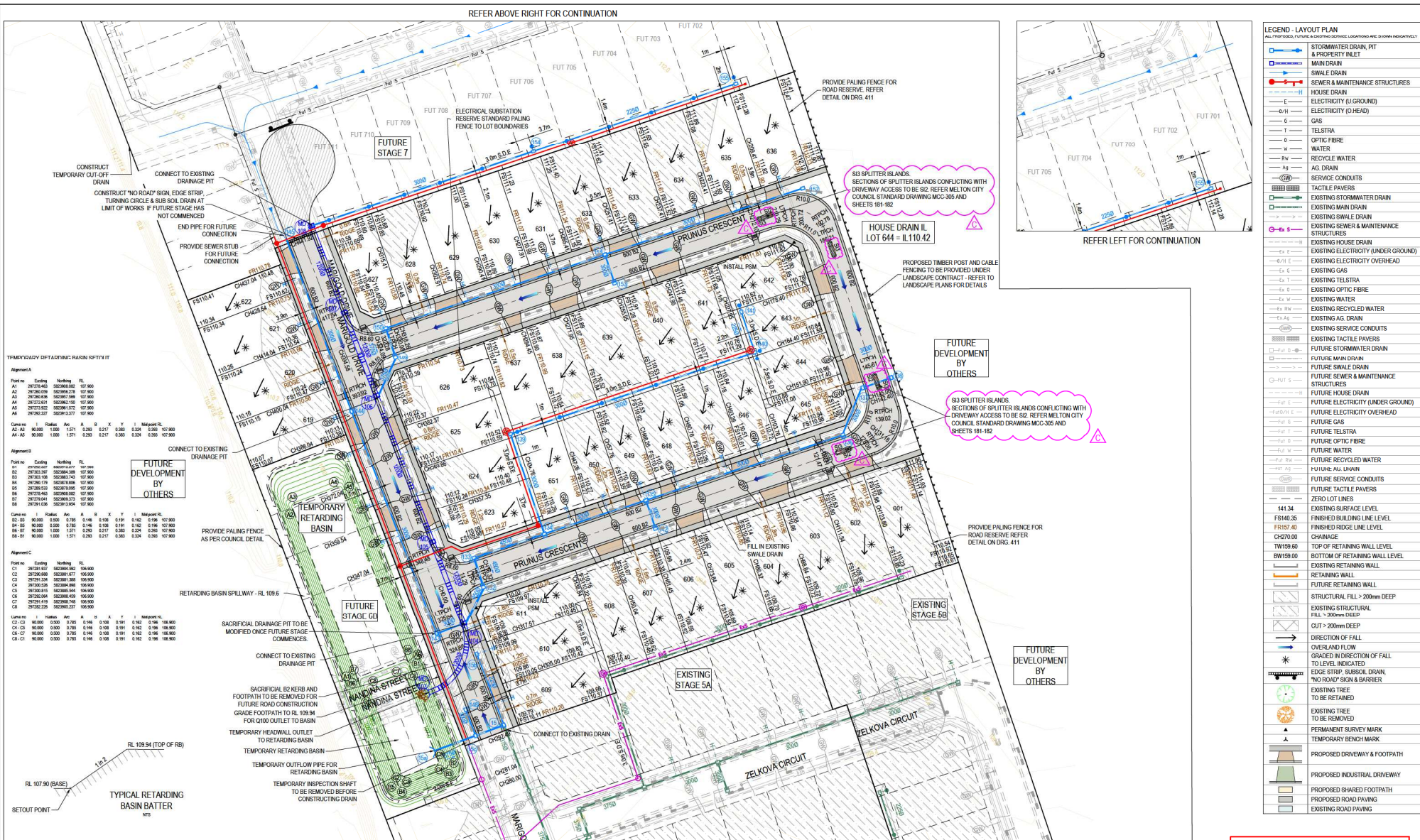
Sam Loza
Laboratory Manager.



LEVEL ONE
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AND INSPECTION REPORT

APPENDIX A

REFER ABOVE RIGHT FOR CONTINUATION



LEGEND - LAYOUT PLAN. A detailed legend listing symbols for stormwater drains, sewers, electricity, gas, water, and various retaining walls and structures.

TEMPORARY RETARDING BASIN SPLIT 1

Table with columns: Point no., Existing, Northing, Easting, RL. Lists points A1 through A5 with their respective coordinates and elevations.

Alignm:3

Table with columns: Point no., Existing, Northing, Easting, RL. Lists points B1 through B5 with their respective coordinates and elevations.

Alignm:C

Table with columns: Point no., Existing, Northing, Easting, RL. Lists points C1 through C5 with their respective coordinates and elevations.

Alignm:D

Table with columns: Point no., Existing, Northing, Easting, RL. Lists points D1 through D5 with their respective coordinates and elevations.

FUTURE DEVELOPMENT BY OTHERS

FUTURE DEVELOPMENT BY OTHERS

ROAD LAYOUT TABLE. Table with columns: ROAD NAME, ROAD CLASSIFICATION, RESERVE WIDTH (m), LIP TO LIP, INV TO INV, BACK TO BACK, KERB TYPE, VERGE WIDTH (m). Lists roads like MARGOLD DRIVE, PRUNUS CRESCENT, and NANDINA STREET.

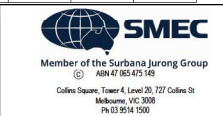
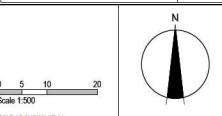
SERVICES OFFSET TABLE. Table with columns: ROAD NAME, GAS, WATER, ELECTRICITY, OPTIC FIBRE. Lists offsets for various services along MARGOLD DRIVE, PRUNUS CRESCENT, and NANDINA STREET.

NATURAL SURFACE LEVELS FOR THE LOTS HAVE BEEN ADAPTED FROM CMV REPORT MEL2021-0073AB Rev1, AND TO BE AMENDED ONCE FINAL EARTH RECTIFICATION HAS BEEN UNDERTAKEN ON SITE AND AREA RE-SURVEYED.

WARNING BEWARE OF UNDERGROUND SERVICES. The locations of underground services are approximate only and their exact position should be provided on site.

Table with columns: REV, DATE, AMENDMENT / REVISION DESCRIPTION. Lists revision history for the drawing.

Table with columns: DRAFTER, DESIGNER, CHECKER, APPROVER. Lists the names of the professionals involved in the project.



Botania - Stage 6A Melton City Council Road and Drainage Layout Plan. Includes project number 355 G5 and drawing number 3070E-06A-111.



LEVEL ONE
SURVEILLANCE
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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.: # 9032/004

LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Stage 6

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)	
30/09/22	1	<i>Refer to #9032/005 for approx. test site locations.</i>	1.85	30.0	98.5	1.88	29.0	175	0.5 Wetter	102.0	0	0	250	
30/09/22	2		1.93	25.5	104.5	1.84	26.0	175	0.5 Drier	99.0	0	0	250	
30/09/22	3		1.92	28.5	102.0	1.88	29.0	175	0.5 Drier	99.0	0	0	250	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 10:10am 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)



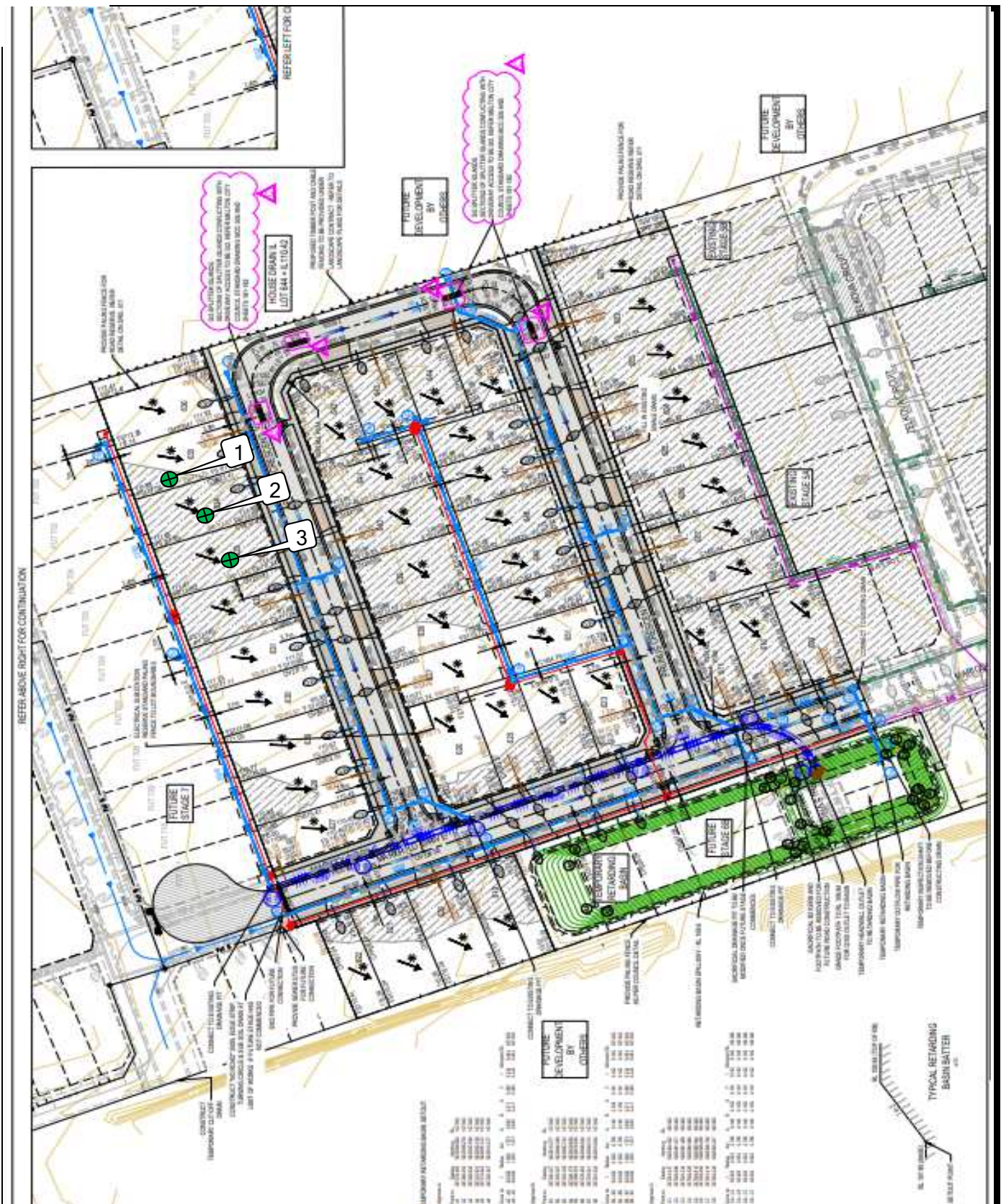
Accredited for compliance with ISO/IEC

17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 5/10/2022



GEOTECHNICAL LABORATORIES

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

CLIENT: 1152TAYLORS DEVELOPMENT LOCATION: Botania. Stage 6 Sketch indicating compaction test locations	DATE: 30/09/2022	JOB No.: 9032/005
	OPERATOR: SLI	CHECKED: KK
	SCALE: NTS	FIGURE No: -



GEOTECHNICAL LABORATORIES
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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9032/007

LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Stage 6

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)	
1/10/22	4	<i>Refer to #9032/008 for approx. test site locations.</i>	1.89	31.0	100.0	1.88	29.5	175	1.5 Wetter	104.5	0	0	200	
1/10/22	5		1.89	30.5	101.0	1.87	29.5	175	1.0 Wetter	103.5	0	0	200	
1/10/22	6		1.86	28.5	98.5	1.88	28.5	175	0.5 Wetter	101.0	0	0	200	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 9:10am Finish Time: 9:35am

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)

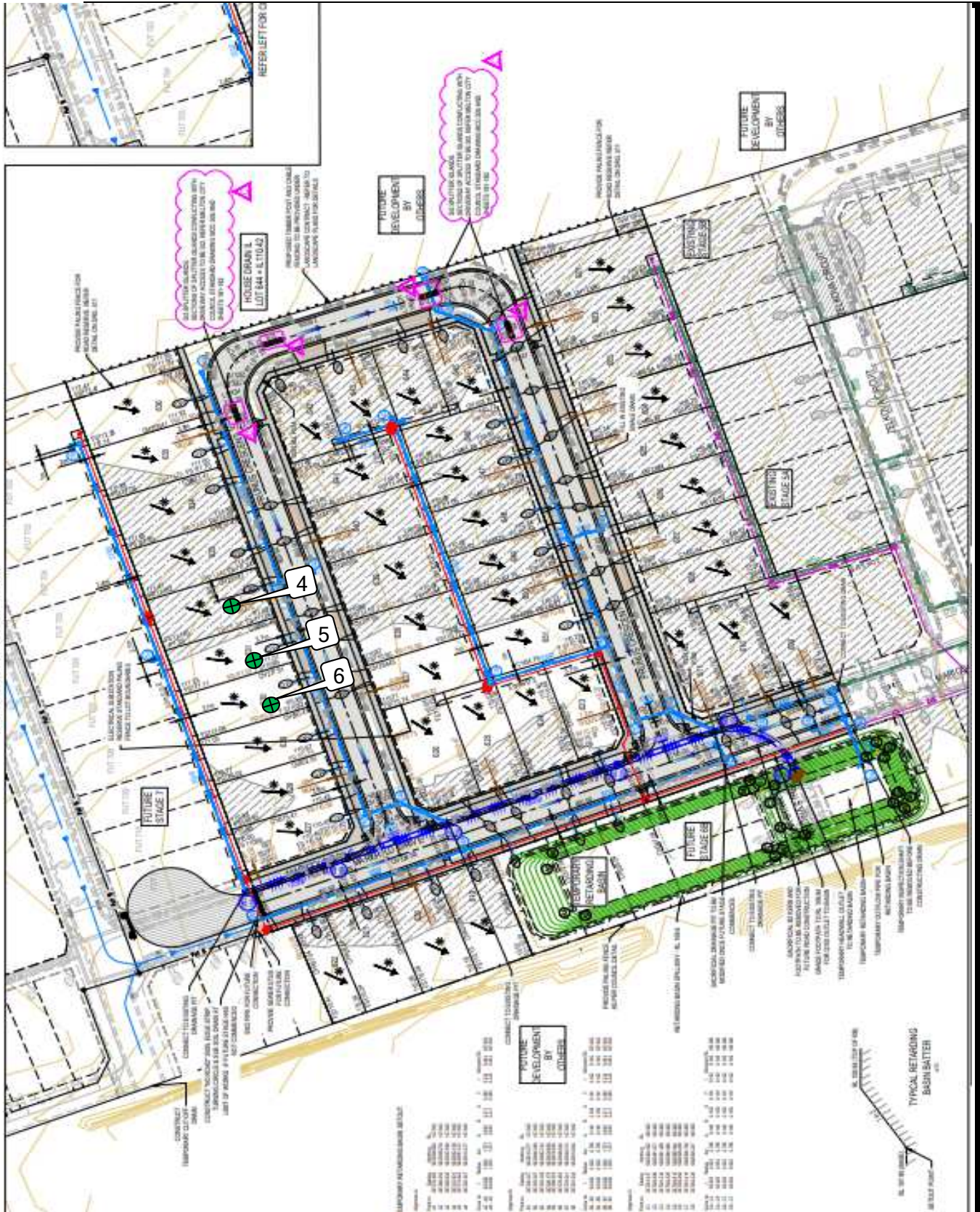


Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 7/10/2022



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES

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CLIENT: 1152TAYLORS DEVELOPMENT

LOCATION: Botania. Stage 6

Sketch indicating compaction test locations

DATE: 1/10/2022

OPERATOR:NE

SCALE: NTS

JOB No.: 9032/008

CHECKED: KK

FIGURE No: -



GEOTECHNICAL LABORATORIES
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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9032/011

LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Plumpton, Stage 6

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)	
3/10/22	7	<i>Refer to #9032/012 for approx. test site locations.</i>	1.88	29.0	99.5	1.90	28.5	175	0.5 Wetter	101.0	0	0	0	
3/10/22	8		1.87	30.0	98.5	1.90	30.0	175	0.5 Wetter	101.0	0	0	0	
3/10/22	9		1.91	30.5	100.5	1.91	29.5	175	1.0 Wetter	102.5	0	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 8:10am Finish Time: 9:00am

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)

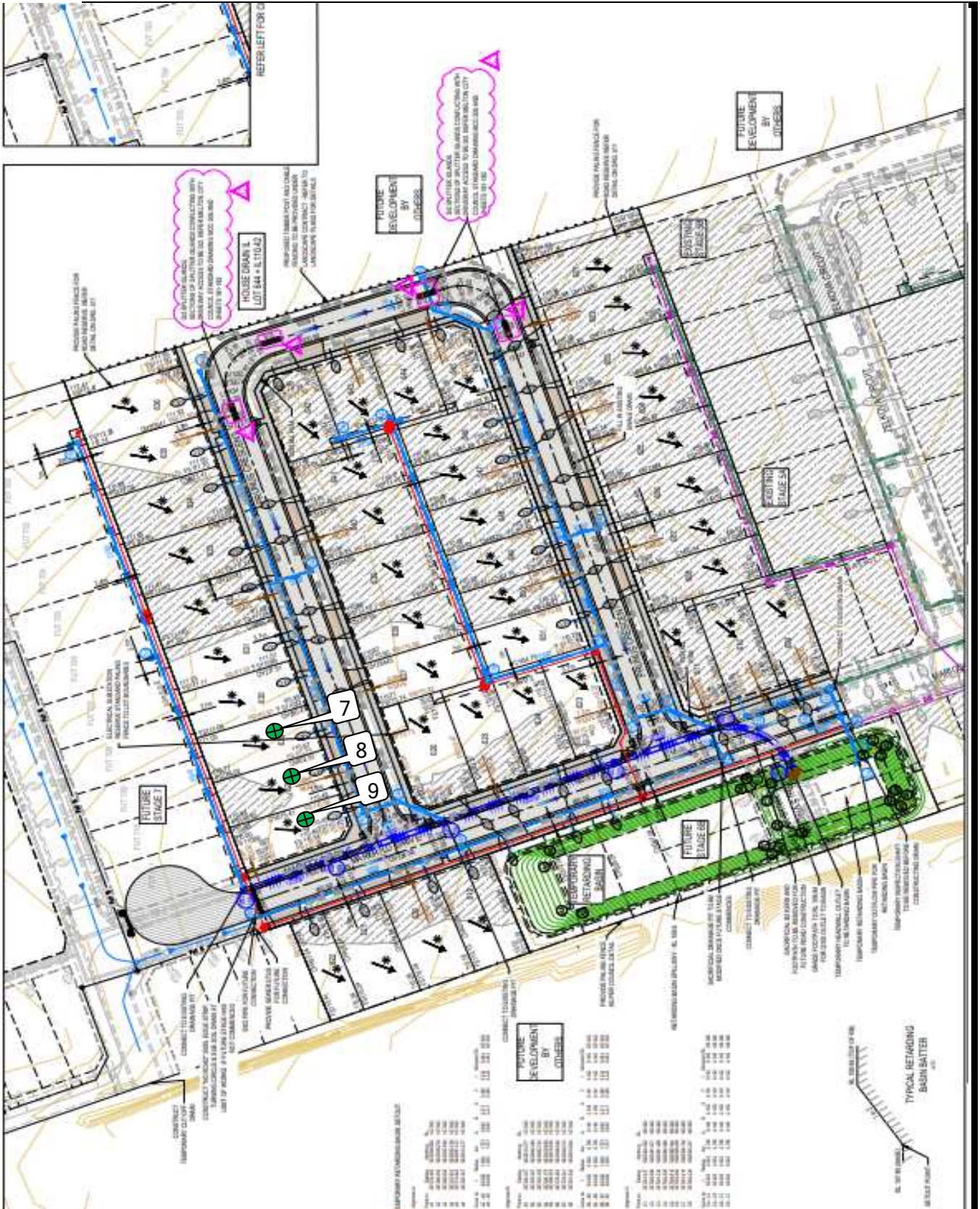


Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 7/10/2022



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
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CLIENT: 1152 TAYLORS DEVELOPMENT
LOCATION: Botania. Stage 6
Sketch indicating compaction test locations

DATE: 3/10/2022
OPERATOR: SLI
SCALE: NTS

JOB No.: 9032/012
CHECKED: KK
FIGURE No.: -



GEOTECHNICAL LABORATORIES
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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9032/014

LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Plumpton, Stage 6

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)
5/10/22	13	<i>Refer to #9032/015 for approx. test site locations.</i>	1.96	21.0	101.0	✘ 1.94	23.0	175	2.0 Drier	91.5	4	0	300
5/10/22	14		1.85	28.0	98.5	1.88	28.5	175	1.0 Drier	97.5	0	0	300
5/10/22	15		1.86	25.0	100.0	1.86	27.5	175	2.5 Drier	91.0	0	0	300
-	-		-	-	-	-	-	-	-	-	-	-	-
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-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11:00am Finish Time: 11:30am

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

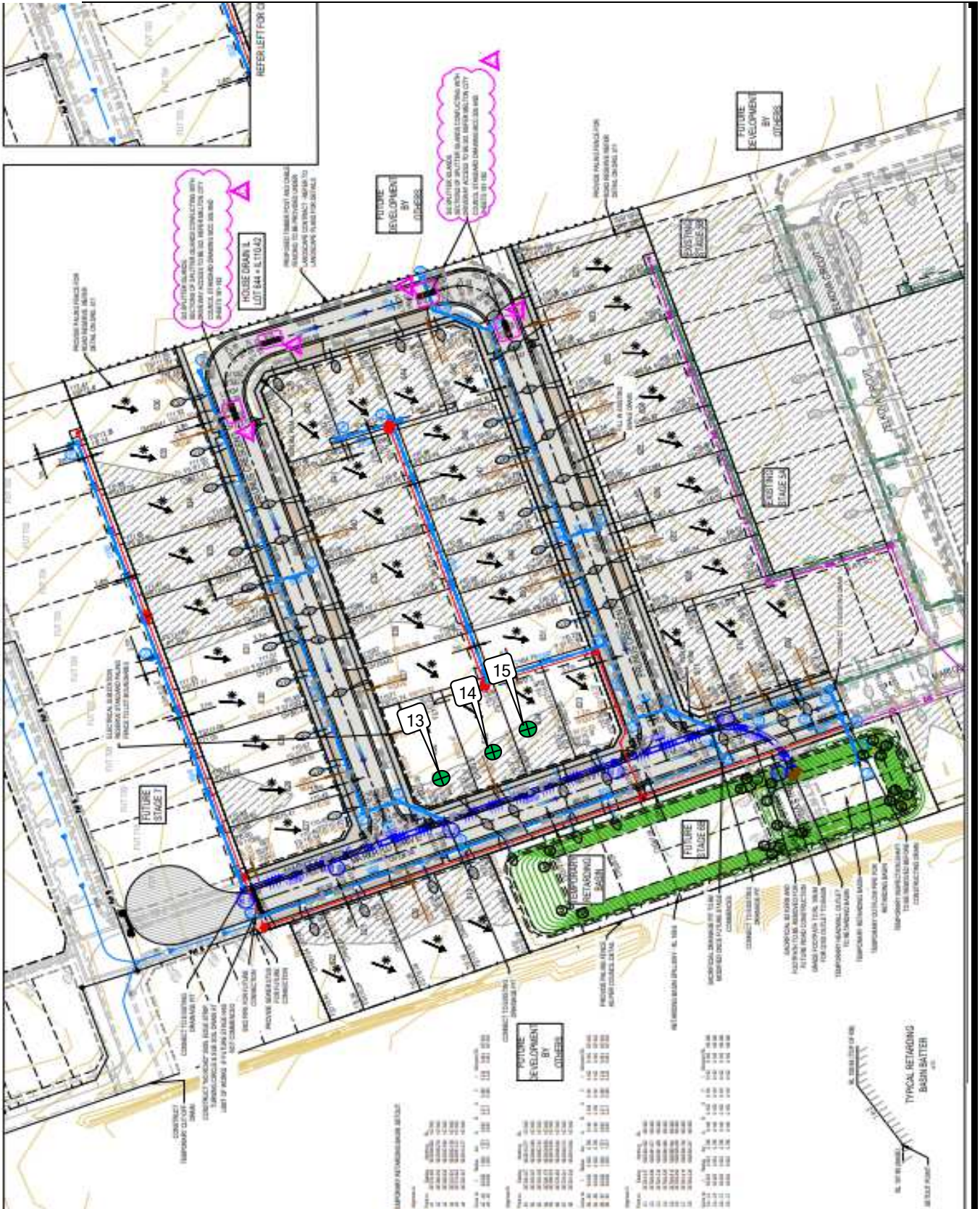


Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 12/10/2022



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES

ACN 102 571 077

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CLIENT: 1152TAYLORS DEVELOPMENT

LOCATION: Botania. Stage 6

Sketch indicating compaction test locations

DATE: 5/10/2022

OPERATOR: KOB

SCALE: NTS

JOB No.: 9032/015

CHECKED: KK

FIGURE No: -



GEOTECHNICAL LABORATORIES
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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9032/016

LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Plumpton, Stage 6

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)	
4/10/22	10	<i>Refer to #9032/017 for approx. test site locations.</i>	1.96	23.5	103.0	1.91	25.5	175	1.5 Drier	93.0	0	0	250	
4/10/22	11		1.86	21.5	99.5	1.87	25.0	175	3.5 Drier	85.5	0	0	250	
4/10/22	12		1.85	22.0	97.0	✘ 1.91	24.0	175	2.0 Drier	91.0	4	0	250	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

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: 11.10AM

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



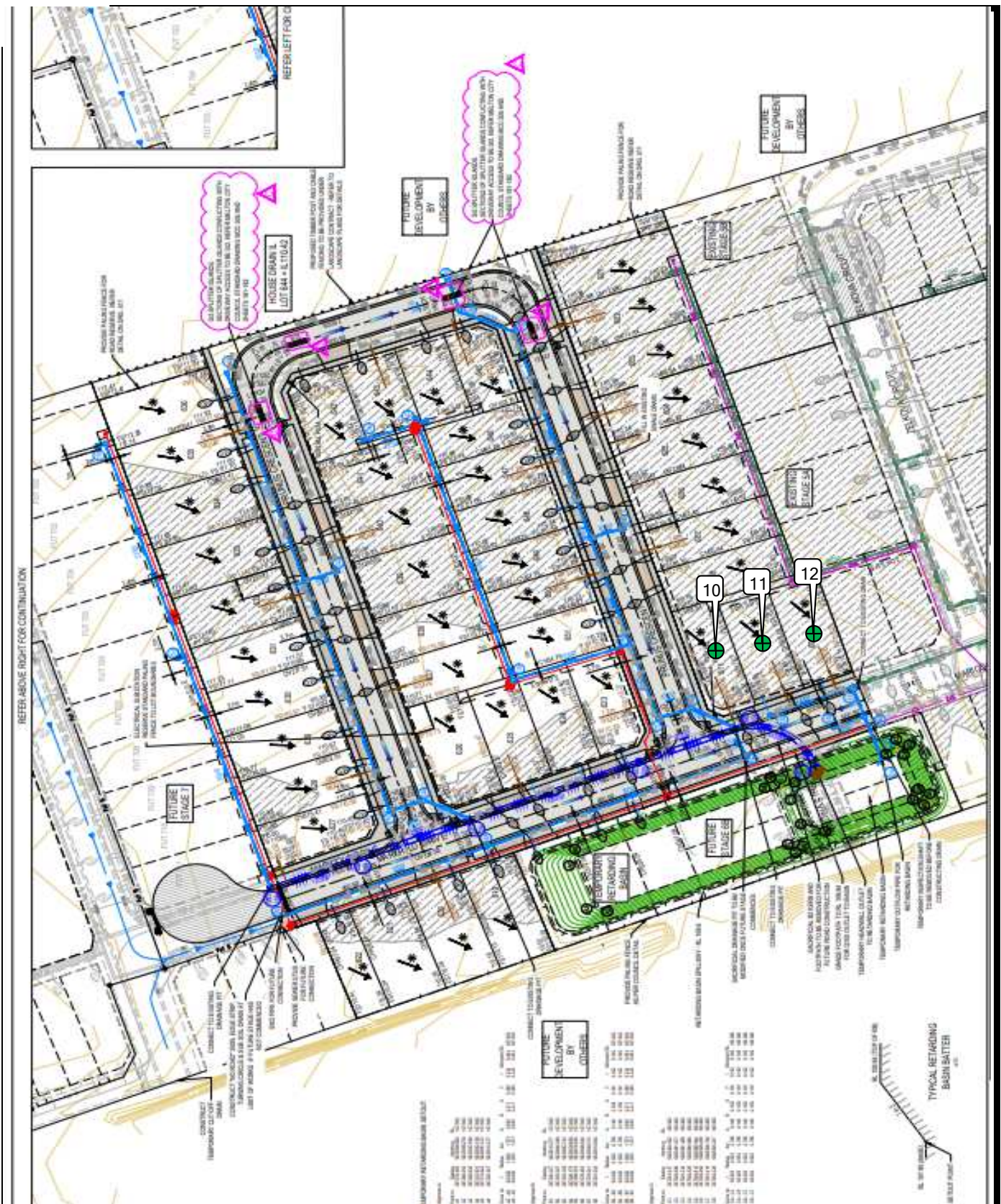
Accredited for compliance with ISO/IEC

17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 12/10/2022



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

CLIENT: 1152TAYLORS DEVELOPMENT
LOCATION: Botania. Stage 6
Sketch indicating compaction test locations

DATE: 4/10/2022

JOB No.: 9032/017

OPERATOR: KOB

CHECKED: KK

SCALE: NTS

FIGURE No: -



GEOTECHNICAL LABORATORIES
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 14 Ravenhall Way, Ravenhall, Vic 3023
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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9032/018

LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Plumpton, Stage 6

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)
6/10/22	16	<i>Refer to #9032/019 for approx. test site locations.</i>	1.91	23.5	100.5	✘ 1.90	26.0	175	2.5 Drier	90.5	4	0	300
6/10/22	17		1.90	22.5	99.0	1.91	24.5	175	2.5 Drier	90.0	0	0	300
6/10/22	18		1.89	23.0	99.0	1.91	25.0	175	2.0 Drier	92.0	0	0	300
6/10/22	19		1.90	23.0	101.5	1.87	25.0	175	2.0 Drier	92.0	0	0	300
6/10/22	20		1.90	24.5	103.5	1.83	28.0	175	3.0 Drier	88.5	0	0	300
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11.00AM Finish Time: 12.00PM

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

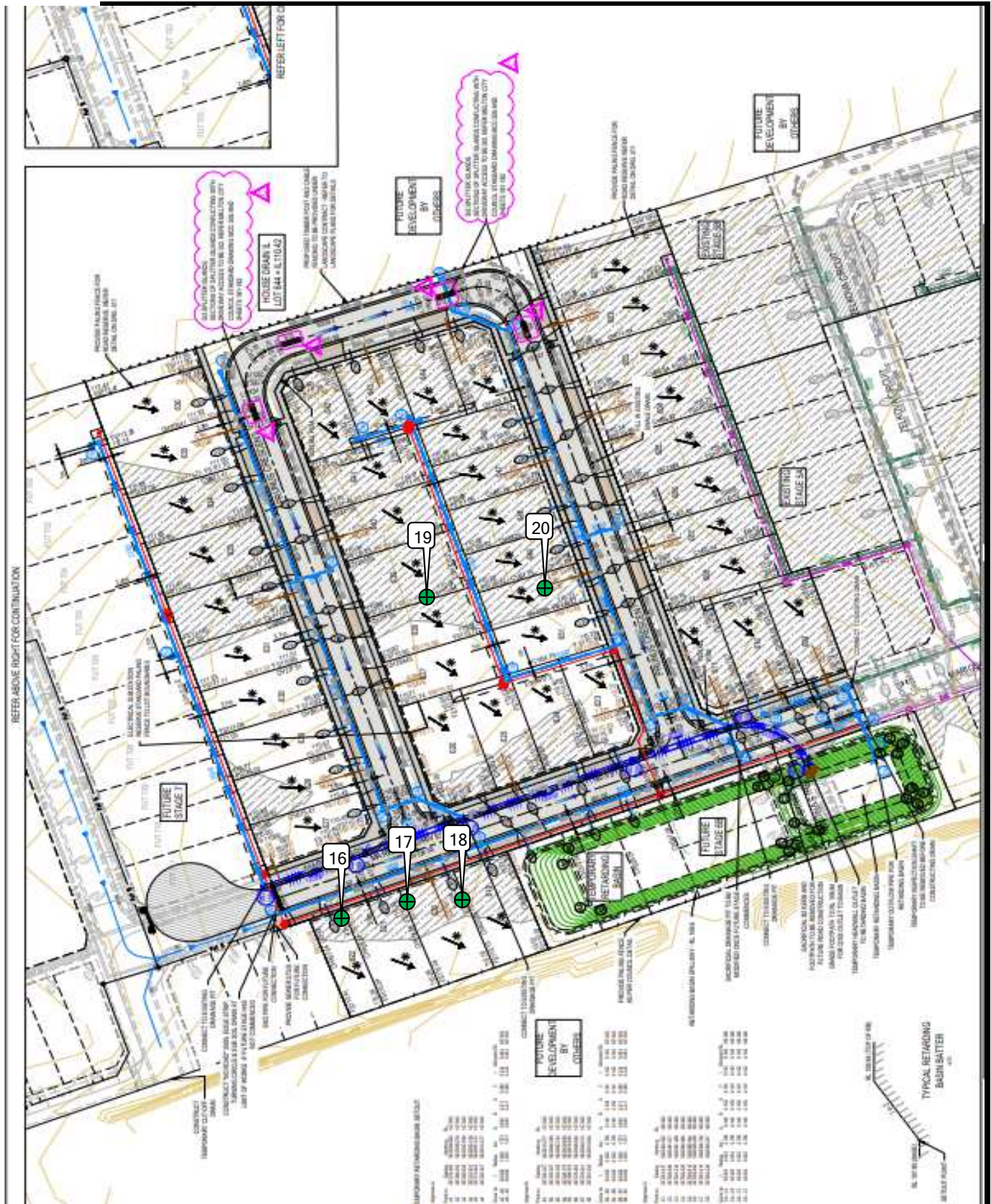


Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 12/10/2022



GEOTECHNICAL LABORATORIES

GEOTECHNICAL LABORATORIES
ACN 102 571 077

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

CLIENT: 1152TAYLORS DEVELOPMENT
LOCATION: Botania. Stage 6
Sketch indicating compaction test locations

DATE: 6/10/2022
OPERATOR: KOB
SCALE: NTS

JOB No.: 9032/019
CHECKED: KK
FIGURE No: -



GEOTECHNICAL LABORATORIES
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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9032/020

LOCATION: 1152 TAYLORS DEVELOPMENT - Botania Plumpton, Stage 6

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)	
10/10/22	21	<i>Refer to #9032/021 for approx. test site locations.</i>	1.90	22.0	100.0	✘ 1.90	24.5	175	2.5 Drier	89.0	2	0	0	
10/10/22	22		1.85	25.5	100.5	1.85	28.0	175	2.5 Drier	91.0	0	0	0	
10/10/22	23		1.89	24.0	105.0	1.80	28.5	175	4.5 Drier	83.5	0	0	0	
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 2.08PM 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)

✘ Indicates APCWD

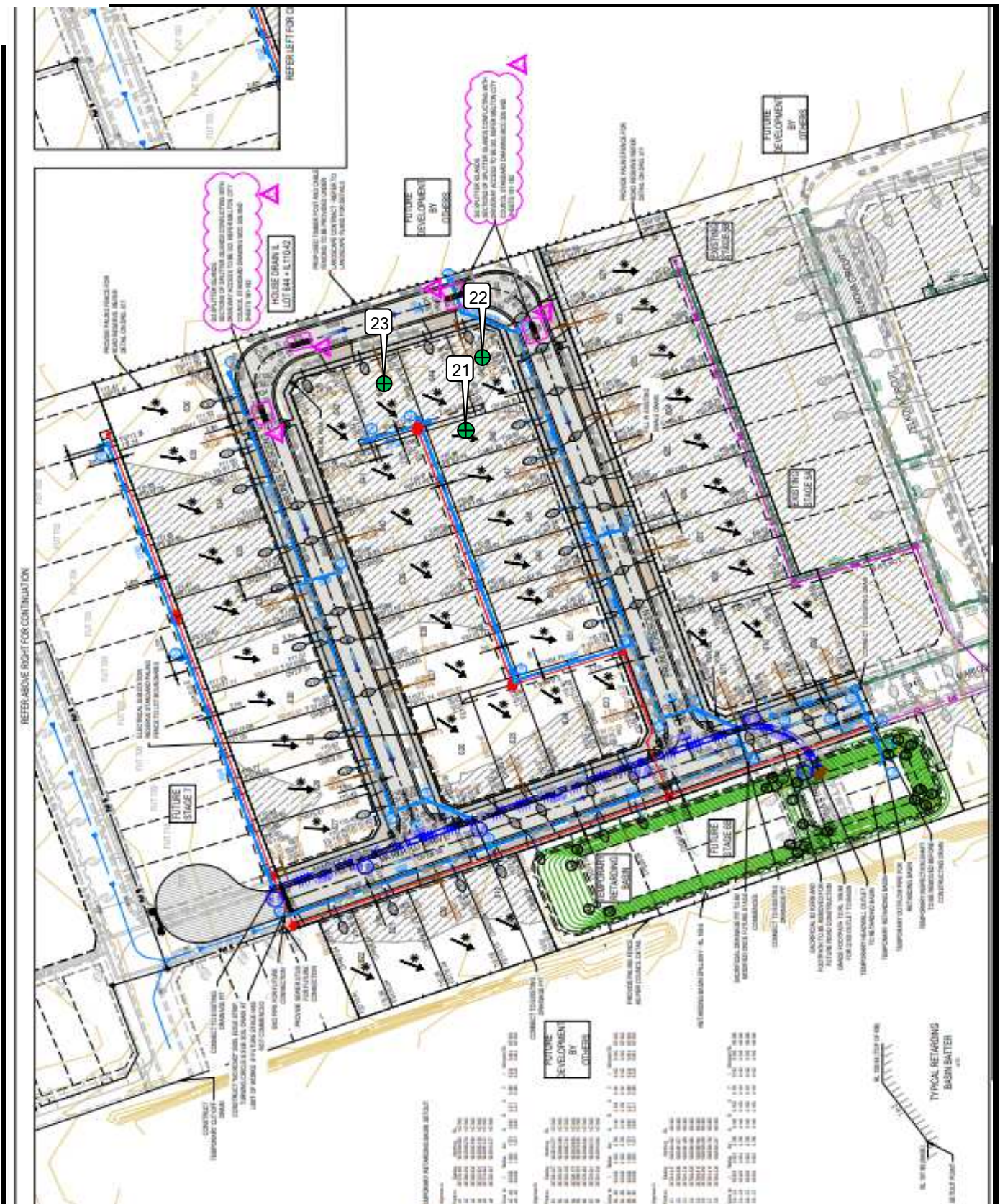


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 17025 - Testing*

NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

Issue Date: 12/10/2022



GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

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

CLIENT: 1152 TAYLORS DEVELOPMENT

LOCATION: Botania. Stage 6

Sketch indicating compaction test locations

DATE: 10/10/2022

OPERATOR: AB

SCALE: NTS

JOB No.: 9032/021

CHECKED: KK

FIGURE No: -



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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9032/024

LOCATION: 1152 TAYLORS DEVELOPMENT - Botania Plumpton, Stage 6

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)
11/10/22	24	<i>Refer to #9032/025 for approx. test site locations.</i>	1.83	25.5	101.5	1.81	28.0	175	2.5 Drier	91.0	0	0	0
11/10/22	25		1.83	26.5	102.0	1.80	30.0	175	3.5 Drier	89.0	0	0	0
11/10/22	26		1.84	24.5	102.0	✘ 1.81	28.5	175	4.0 Drier	86.0	4	0	0
11/10/22	27		1.86	28.0	104.5	1.77	30.0	175	2.0 Drier	93.0	0	0	0
11/10/22	28		1.90	23.5	101.0	1.89	24.5	175	0.5 Drier	97.0	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 1.30PM 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)

✘ Indicates APCWD

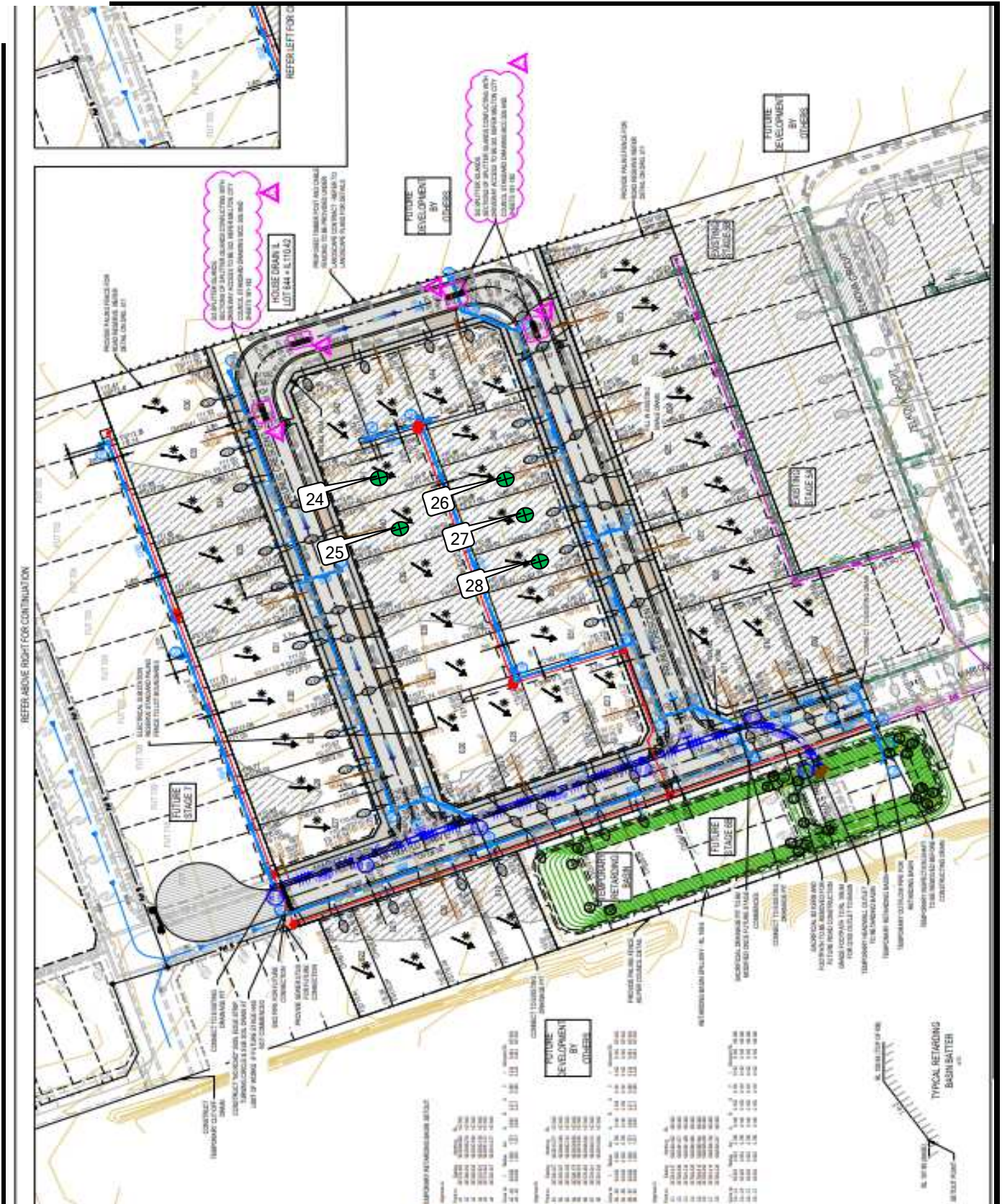


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NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

Issue Date: 13/10/2022



**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: 1152 TAYLORS DEVELOPMENT

LOCATION: Botania. Stage 6

Sketch indicating compaction test locations

DATE: 11/10/2022

OPERATOR: PS

SCALE: NTS

JOB No.: 9032/025

CHECKED: KK

FIGURE No: -



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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9032/026

LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Plumpton, Stage 6

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)
12/10/22	29	<i>Refer to #9032/027 for approx. test site locations.</i>	1.84	27.0	95.0	✘ 1.93	26.5	175	0.5 Wetter	101.0	5	0	0
12/10/22	30		1.84	23.5	95.5	1.92	25.0	175	1.5 Drier	94.0	0	0	0
12/10/22	31		1.82	26.0	96.0	1.89	26.5	175	1.0 Drier	97.0	0	0	0
12/10/22	32		1.86	25.5	95.5	✘ 1.94	24.0	175	1.5 Wetter	106.5	5	0	0
12/10/22	33		1.84	24.0	96.5	1.91	25.0	175	1.0 Drier	95.0	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11:00am Finish Time: 12:00pm

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

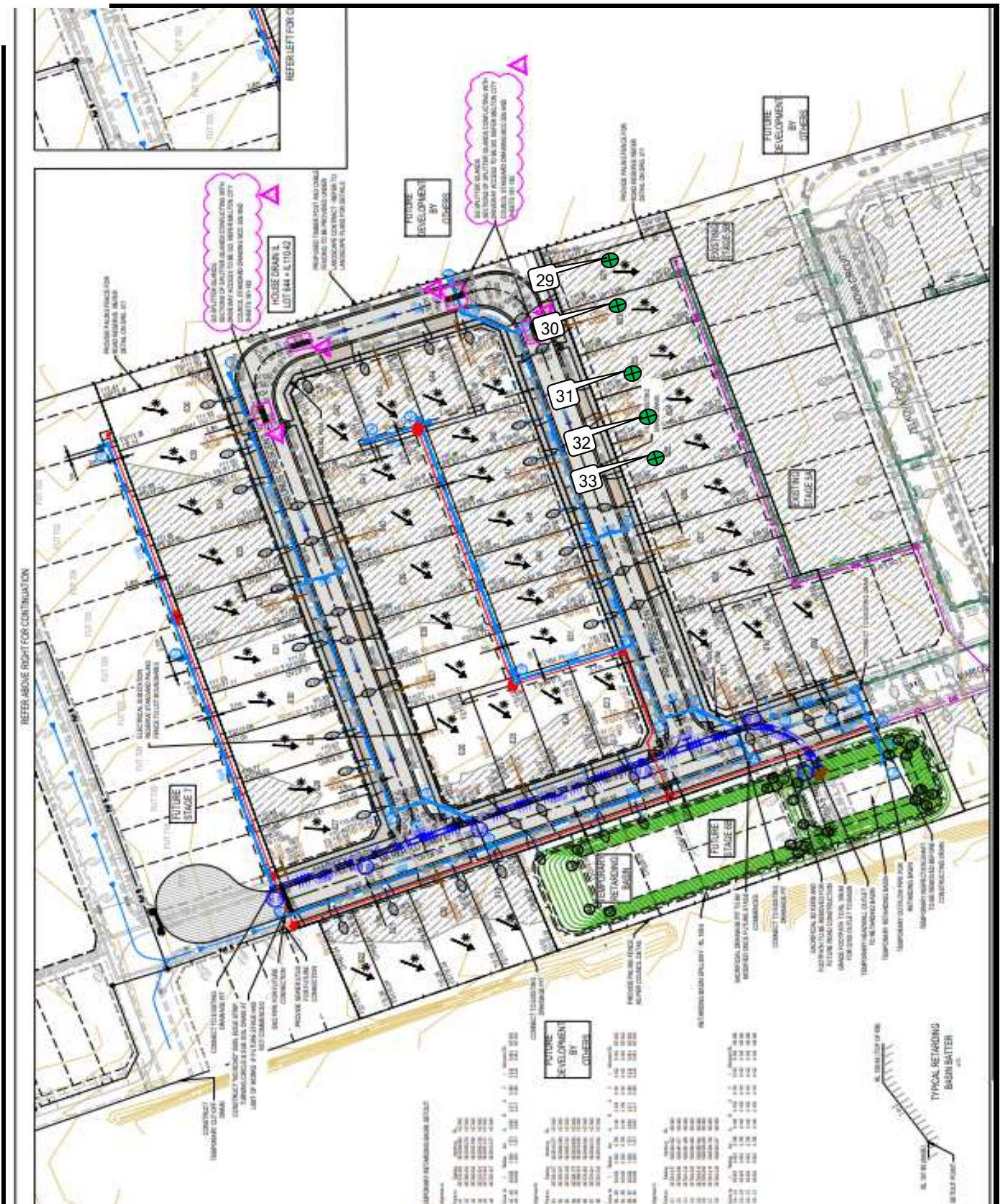


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 17025 - Testing*

NATA Accredited Laboratory Number 14561

MICK CROWE
 (Approved Signatory)

Issue Date: 17/10/2022



**GEOTECHNICAL
LABORATORIES**

GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

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

CLIENT: 1152TAYLORS DEVELOPMENT

LOCATION: Botania. Stage 6

Sketch indicating compaction test locations

DATE: 12/10/2022

JOB No.: 9032/027

OPERATOR: KOB

CHECKED: KK

SCALE: NTS

FIGURE No: -



GEOTECHNICAL LABORATORIES

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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 9032/028

LOCATION: 1152 TAYLORS DEVELOPMENT - Botania, Plumpton, Stage 6

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	34	<i>Refer to #9032/029 for approx. test site locations.</i>	1.95	30.0	101.5	1.92	26.0	175	4.0 Wetter	115.0	0	0	0
18/10/22	35		1.93	29.5	100.0	1.93	26.5	175	3.5 Wetter	113.0	0	0	0
18/10/22	36		1.86	29.5	96.5	1.93	27.0	175	2.5 Wetter	109.5	0	0	0
18/10/22	37		1.92	31.0	99.5	1.93	29.0	175	2.0 Wetter	107.5	0	0	0
18/10/22	38		1.98	28.5	105.0	1.89	28.0	175	0.5 Wetter	102.0	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11:20am Finish Time: 12:10pm

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

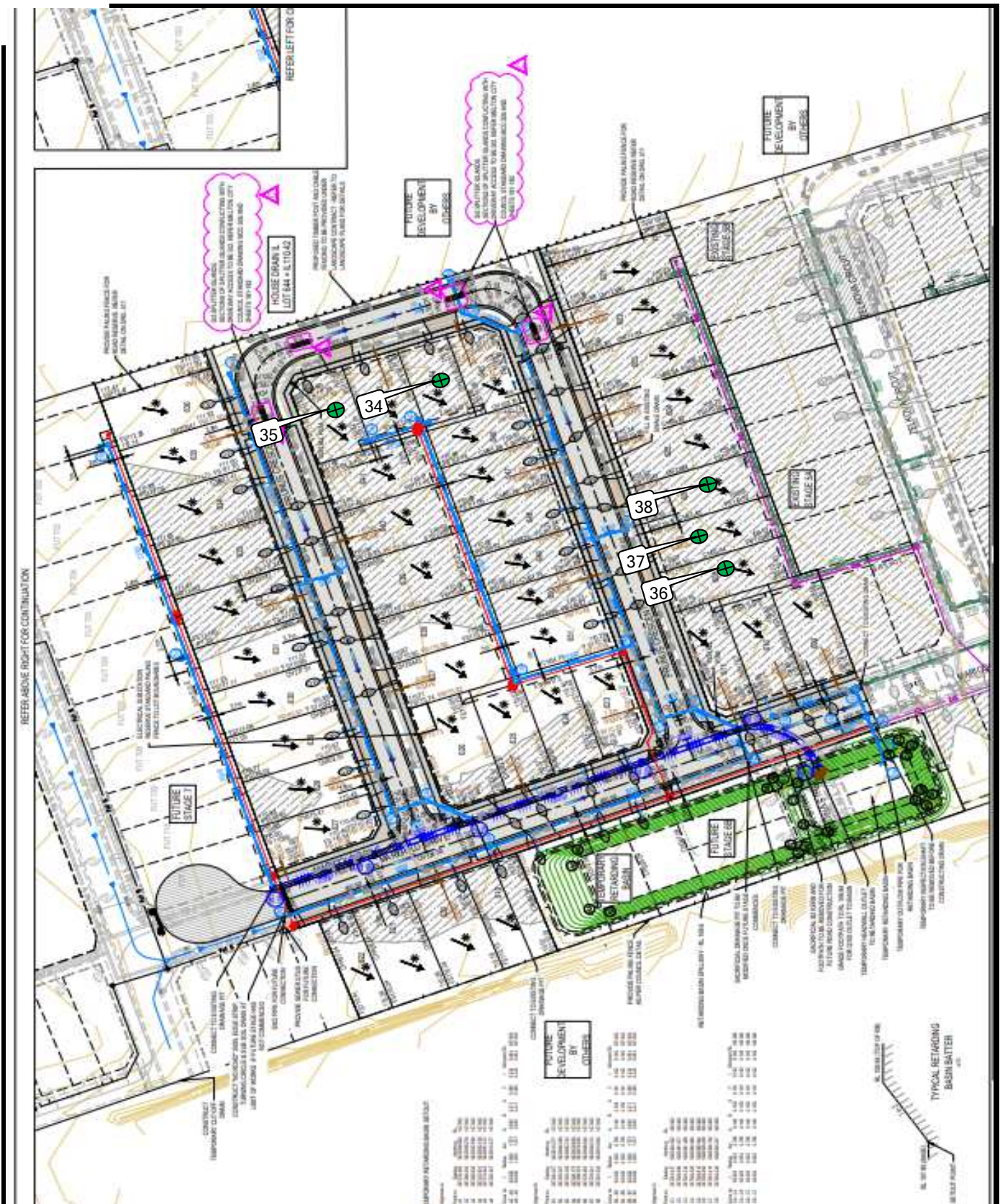
17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 19/10/2022

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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: 1152 TAYLORS DEVELOPMENT

LOCATION: Botania. Stage 6

Sketch indicating compaction test locations

DATE: 18/10/2022

OPERATOR: AB

SCALE: NTS

JOB No.: 9032/029

CHECKED: KK

FIGURE No: -