



CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
PO Box 678 Croydon Vic 3136
Telephone: 9723 0744 Facsimile: 9723 0799

10th August 2023

Our Reference: 23474:NB1578

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ASPIRE – STAGE 36B (PLUMPTON)

Please find attached our Report No 23474/R001 which relates to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density was performed in June 2023.

The inspections and testing of the earthworks was undertaken in general accordance with the Level 1 requirements of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments.

The site inspection and testing was performed by experienced geotechnicians from this office. Any areas that were deemed unsatisfactory were reworked and retested under their supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. The attached compaction results, which were located randomly throughout the fill profile, are considered to be representative of the bulk fill materials that were placed across the reported allotments by Winslow Constructors during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

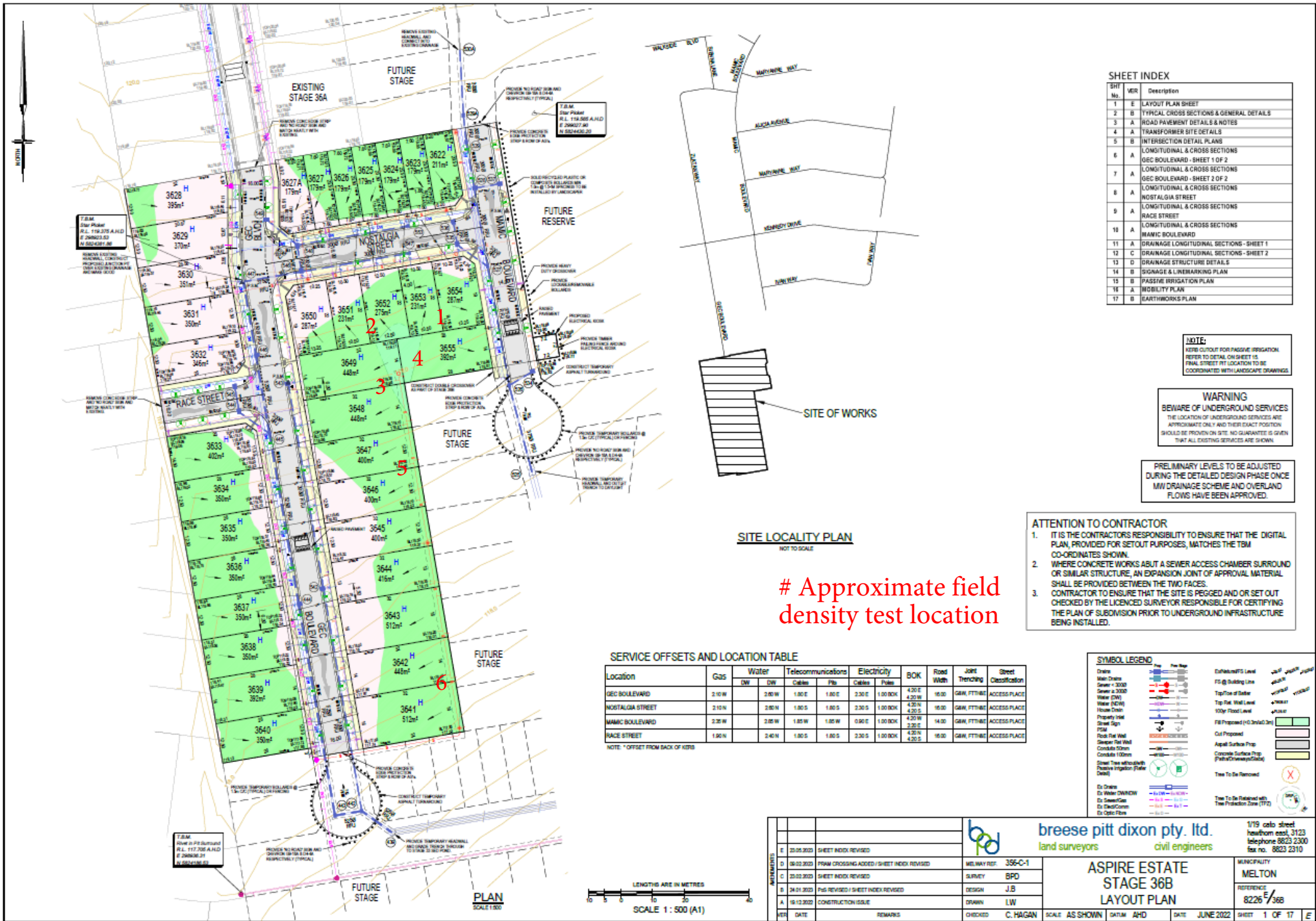
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

A handwritten signature in blue ink, appearing to be 'Nick Brock', is written over a light blue circular stamp.

Nick Brock

FIGURE 1



SHEET INDEX

SHT No.	VER	Description
1	E	LAYOUT PLAN SHEET
2	B	TYPICAL CROSS SECTIONS & GENERAL DETAILS
3	A	ROAD PAVEMENT DETAILS & NOTES
4	A	TRANSFORMER SITE DETAILS
5	B	INTERSECTION DETAIL PLANS
6	A	LONGITUDINAL & CROSS SECTIONS (GC BOULEVARD - SHEET 1 OF 2)
7	A	LONGITUDINAL & CROSS SECTIONS (GC BOULEVARD - SHEET 2 OF 2)
8	A	LONGITUDINAL & CROSS SECTIONS (NOSTALGIA STREET)
9	A	LONGITUDINAL & CROSS SECTIONS (RACE STREET)
10	A	LONGITUDINAL & CROSS SECTIONS (MAMAC BOULEVARD)
11	A	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
12	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
13	D	DRAINAGE STRUCTURE DETAILS
14	B	SIGNAGE & LINE MARKING PLAN
15	B	PASSIVE IRRIGATION PLAN
16	A	MOBILITY PLAN
17	B	EARTHWORKS PLAN

NOTE:
 REFER OUTLINE FOR PASSIVE IRRIGATION. REFER TO DETAIL SHEET 15 FOR FINAL STREET FIT LOCATION TO BE COORDINATED WITH LANDSCAPE DRAWINGS.

WARNING
BEWARE OF UNDERGROUND SERVICES
 THE LOCATION 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.

PRELIMINARY LEVELS TO BE ADJUSTED DURING THE DETAILED DESIGN PHASE ONCE MW DRAINAGE SCHEME AND OVERLAND FLOWS HAVE BEEN APPROVED.

ATTENTION TO CONTRACTOR

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM CO-ORDINATES SHOWN.
- WHERE CONCRETE WORKS ASBUT A SEWER ACCESS CHAMBER SURROUND OR SIMILAR STRUCTURE, AN EXPANSION JOINT OF APPROVAL MATERIAL SHALL BE PROVIDED BETWEEN THE TWO FACES.
- CONTRACTOR TO ENSURE THAT THE SITE IS PEGGED AND OR SET OUT CHECKED BY THE LICENCED SURVEYOR RESPONSIBLE FOR CERTIFYING THE PLAN OF SUBMISSION PRIOR TO UNDERGROUND INFRASTRUCTURE BEING INSTALLED.

SERVICE OFFSETS AND LOCATION TABLE

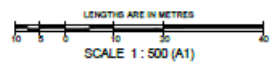
Location	Gas		Water		Telecommunications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
	DW	DW	DW	DW	Cables	Pipe	Cables	Pipes				
GC BOULEVARD	2.10 W	2.00 W	1.80 E	1.80 E	2.30 E	1.00 BOK	4.20 E	4.20 W	4.20 W	16.00	GAW, FT/MB	ACCESS PLACE
NOSTALGIA STREET	2.10 N	2.00 N	1.80 S	1.80 S	2.30 S	1.00 BOK	4.20 S	4.20 W	4.20 W	16.00	GAW, FT/MB	ACCESS PLACE
MAMAC BOULEVARD	2.28 W	2.08 W	1.85 W	1.85 W	0.80 E	1.00 BOK	4.20 W	2.30 E	4.20 E	16.00	GAW, FT/MB	ACCESS PLACE
RACE STREET	1.90 N	2.40 N	1.80 S	1.80 S	2.30 S	1.00 BOK	4.20 N	4.20 S	4.20 S	16.00	GAW, FT/MB	ACCESS PLACE

NOTE: * OFFSET FROM BACK OF KERB

SYMBOL LEGEND

SITE LOCALITY PLAN
 NOT TO SCALE

Approximate field density test location



<p>breese pitt dixon pty. ltd. land surveyors civil engineers</p>		<p>1/19 calo street heathorn east, 3123 telephone 8623 2300 fax no. 8623 2310</p>	
<p>MELBAY REF: 356-C-1</p>		<p>MUNICIPALITY MELTON</p>	
<p>DATE: 25.06.2020 SHEET INDEX REVISED</p>		<p>DATE: 25.06.2020 SHEET INDEX REVISED</p>	
<p>DATE: 08.02.2020 PRISM CROSSING ADDED (SHEET INDEX REVISED)</p>		<p>DATE: 25.02.2020 SHEET INDEX REVISED</p>	
<p>DATE: 24.01.2020 PLS REVISED (SHEET INDEX REVISED)</p>		<p>DATE: 19.12.2020 CONSTRUCTION ISSUE</p>	
<p>DESIGNED BY: J.B.</p>	<p>DRAWN BY: L.W.</p>	<p>CHECKED BY: C. HAGAN</p>	<p>SCALE: AS SHOWN DATUM: AHD DATE: JUNE 2022 SHEET: 1 OF 17</p>

T.B.M. ROW IN P/S BOUNDARY
 B.L. 117.706 A.H.D.
 # 28836_P1
 N 824238.87

PLAN
 SCALE 1:500



COMPACTION ASSESSMENT

Job No 23474
 Report No 23474/R001
 Date Issued 10/08/2023

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 36B	Date tested	26/07/23
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 09:53
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	4	5	6
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
Approximate depth below FSL						
Measurement depth	mm	175	175	175	175	175
Field wet density	t/m ³	1.84	1.84	1.84	1.84	1.83
Field moisture content	%	17.2	18.3	16.9	17.9	17.9

Test procedure AS 1289.5.7.1

Test No	1	2	3	4	5	6
Compactive effort	Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0
Peak Converted Wet Density	t/m ³	1.86	1.88	1.85	1.90	1.87
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	19.5	20.5	19.0	20.0	20.5

Moisture Variation From Optimum Moisture Content	2.5% dry	2.0% dry	2.5% dry	2.0% dry	2.5% dry	2.5% dry
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density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R _{HD})	%	98.5	98.0	99.5	97.0	98.0	99.0
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Material description

No 1 - 6 Clay Fill

AVRLOT HILF V1.10 MAR 13



NATA Accredited Laboratory No 9909
 Accredited for compliance with
 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry