



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

15th March 2021

Our Reference: 20589:NB917

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ASPIRE – STAGE 26 (PLUMPTON)

Please find attached our Report No's 20589/R001 to 20589/R003 which relate 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 October 2020.

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

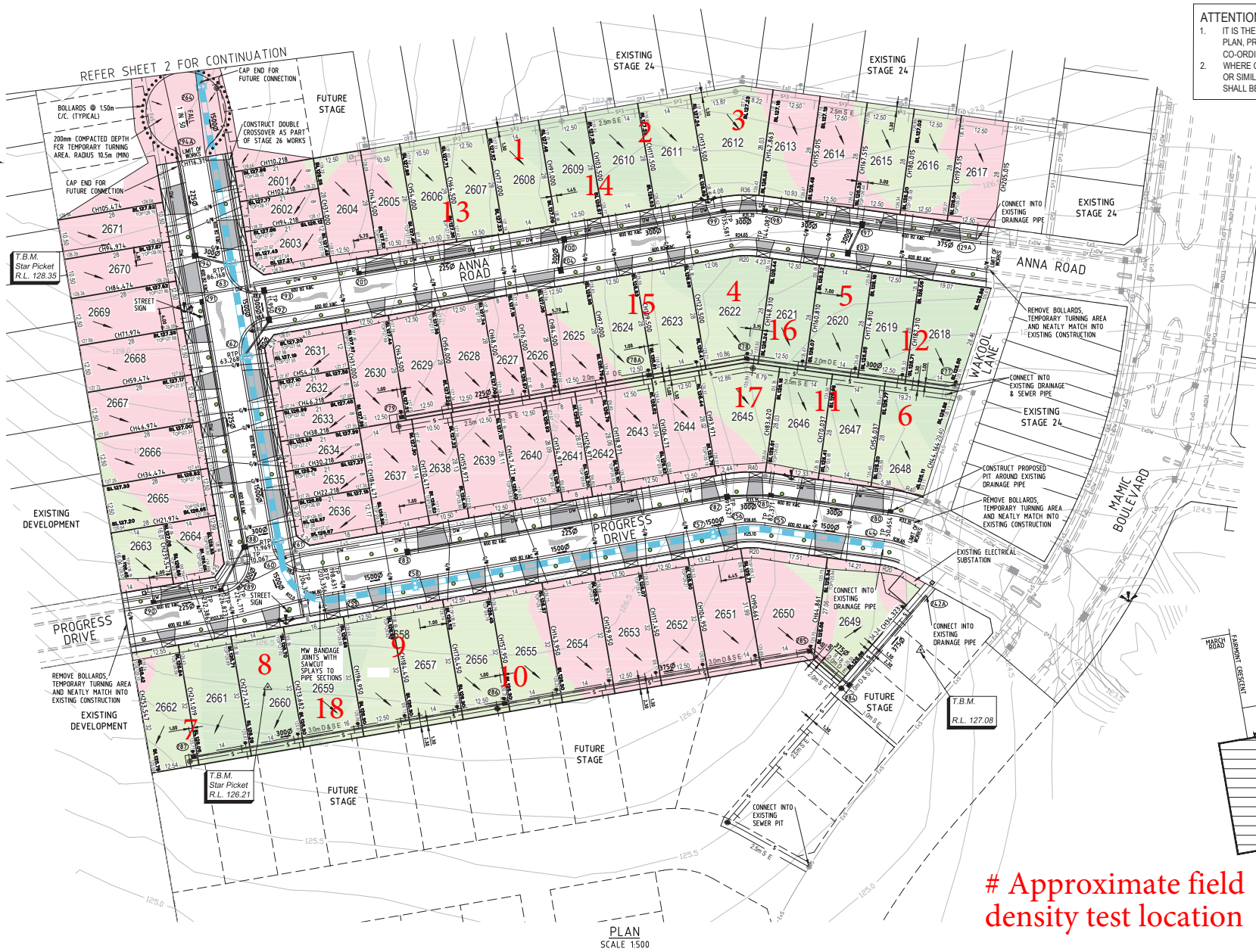
A handwritten signature in blue ink, appearing to read 'Nick Brock', is written over a faint circular stamp.

Nick Brock

FIGURE 1

ATTENTION TO CONTRACTOR

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM CO-ORDINATES SHOWN.
- WHERE CONCRETE WORKS ABOUT A SEWER ACCESS CHAMBER SURROUND OR SIMILAR STRUCTURE, AN EXPANSION JOINT OF APPROVAL MATERIAL SHALL BE PROVIDED BETWEEN THE TWO FACES.



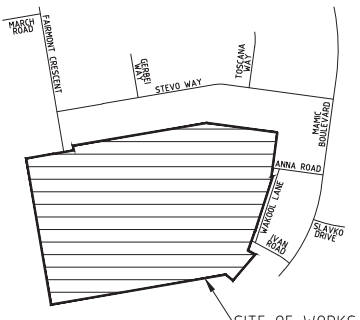
SHEET INDEX

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4	P2	ROAD PAVEMENT DETAILS & NOTES
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25	P2	MOBILITY PLAN

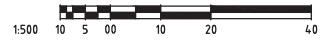
NOTE:
KERB CUTOUT FOR PASSIVE IRRIGATION. REFER TO DETAIL ON SHEET 22. FINAL STREET PIT LOCATION TO BE COORDINATED WITH LANDSCAPE DRAWINGS.

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.



Approximate field density test location



SERVICE OFFSETS AND LOCATION TABLE

ROAD NAME	RESERVE WIDTH	WATER DW	GAS DW	ELECTRICITY POLE		LIG CABLE		TELECOMMUNICATIONS		BOK	
				SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
FAIRMOUNT CRESCENT	20.00	2.60 W	2.10 W	E	2.50"	E	2.30	E	1.80	6.05 E	6.05 W
ANNA ROAD	16.00	2.60 N	2.10 N	S	1.00"	S	2.30	S	1.80	4.05 N	4.05 S
PROGRESS DRIVE (EAST OF FAIRMOUNT CRESCENT)	20.00	2.60 N	2.10 N	N	1.00"	S	2.30	S	1.80	6.05 N	6.05 S
PROGRESS DRIVE (WEST OF FAIRMOUNT CRESCENT)	16.00	2.60 N	2.10 N	N	1.00"	S	2.30	S	1.80	4.05 N	4.05 S

NOTE: * OFFSET FROM BACK OF KERB

SYMBOL LEGEND

Drains	Temporary Bench Mark (TBM)	Ex/Natural/FS Level	FS @ Building Line	Top/Toe of Batter	Top Ref. Wall Level	Fill Proposed (< 0.3m depth)	Fill Proposed (> 0.3m depth)	Out Proposed	Threshold Treatment
Sewer <300	⊕	35.5	⊙	TOP/0.57 / TOP/0.57	TOP/0.57	[Green Box]	[Red Box]	[Red Box]	[Red Box]
Sewer >300	⊕	35.5	⊙	TOP/0.57 / TOP/0.57	TOP/0.57	[Green Box]	[Red Box]	[Red Box]	[Red Box]
House Drain	⊕	35.5	⊙	TOP/0.57 / TOP/0.57	TOP/0.57	[Green Box]	[Red Box]	[Red Box]	[Red Box]
Property Inlet	⊕	35.5	⊙	TOP/0.57 / TOP/0.57	TOP/0.57	[Green Box]	[Red Box]	[Red Box]	[Red Box]
Street Sign	⊕	35.5	⊙	TOP/0.57 / TOP/0.57	TOP/0.57	[Green Box]	[Red Box]	[Red Box]	[Red Box]
PSM	⊕	35.5	⊙	TOP/0.57 / TOP/0.57	TOP/0.57	[Green Box]	[Red Box]	[Red Box]	[Red Box]
Retaining Wall	⊕	35.5	⊙	TOP/0.57 / TOP/0.57	TOP/0.57	[Green Box]	[Red Box]	[Red Box]	[Red Box]
Conduits 50mm	⊕	35.5	⊙	TOP/0.57 / TOP/0.57	TOP/0.57	[Green Box]	[Red Box]	[Red Box]	[Red Box]
Proposed Street Trees	⊕	35.5	⊙	TOP/0.57 / TOP/0.57	TOP/0.57	[Green Box]	[Red Box]	[Red Box]	[Red Box]
Refer sheet 2	⊕	35.5	⊙	TOP/0.57 / TOP/0.57	TOP/0.57	[Green Box]	[Red Box]	[Red Box]	[Red Box]

breese pitt dixon pty. ltd.
land surveyors civil engineers

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN JGB
CHECKED TBA

ASPIRE ESTATE
STAGE 26
LAYOUT PLAN - SHEET 1

MUNICIPALITY MELTON
REFERENCE 8226 E/26
SHEET 01 of 25 P2

1/19 calo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

SCALE AS SHOWN DATUM AHD DATE APR '20



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 20589
Report No 20589/R001
Date Issued 05/11/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	ASPIRE - STAGE 26	Date tested	19/10/20
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	12:30
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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	175
Field wet density	t/m ³	1.82	1.81	1.73	1.86	1.84	1.84
Field moisture content	%	16.8	20.2	14.7	17.4	12.6	22.9

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	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m ³	1.88	1.89	1.75	1.89	1.93	1.90
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	19.0	22.5	17.0	20.0	15.0	25.0

Moisture Variation From Optimum Moisture Content	2.0% dry	2.5% dry	2.5% dry	2.5% dry	2.5% dry	2.0% dry
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Density Ratio (R _{HD})	%	97.0	96.0	99.0	98.5	95.5	96.5
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Material description

No 1 - 6 Clay Fill

AVRLOT HILF V1.10 MAR 13



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 20589
 Report No 20589/R002
 Date Issued 04/11/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	ASPIRE - STAGE 26	Date tested	20/10/20
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:37
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	7	8	9	10	11	12
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	2.02	1.96	1.97	1.92	1.89
Field moisture content	%	24.4	24.9	19.1	31.3	28.7

Test procedure AS 1289.5.7.1

Test No	7	8	9	10	11	12
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	2.01	2.03	2.00	1.99	1.93
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	27.0	27.0	21.5	31.5	31.0

Moisture Variation From Optimum Moisture Content	2.5% dry	2.0% dry	2.5% dry	0.0%	2.5% dry	1.0% dry
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Density Ratio (R _{HD})	%	100.5	97.0	98.5	96.5	98.0	97.5
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Material description

No 7 - 12 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 20589
 Report No 20589/R003
 Date Issued 01/02/2021

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	ASPIRE - STAGE 26	Date tested	21/10/20
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:42
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	13	14	15	16	17	18	
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	1.74	1.89	1.79	1.68	2.02	1.74
Field moisture content	%	18.6	18.0	28.0	28.4	28.4	28.3

Test procedure AS 1289.5.7.1

Test No	13	14	15	16	17	18	
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	1.82	1.95	1.83	1.71	2.02	1.79
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	21.0	20.5	30.5	29.5	30.5	29.5

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.5% dry	1.0% dry	2.0% dry	1.0% dry
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Density Ratio (R _{HD})	%	96.0	97.0	98.0	98.0	100.0	97.5
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Material description

No 13 - 18 Clay Fill

AVRLOT HILF V1.10 MAR 13



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