



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

14th February 2019

Our Reference: 19113:NB440

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ALBRIGHT – STAGE 4 (STAGE 4)

Please find attached our Report No 19113/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 testing were performed in July 2018.

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 light blue circular stamp.

Nick Brock

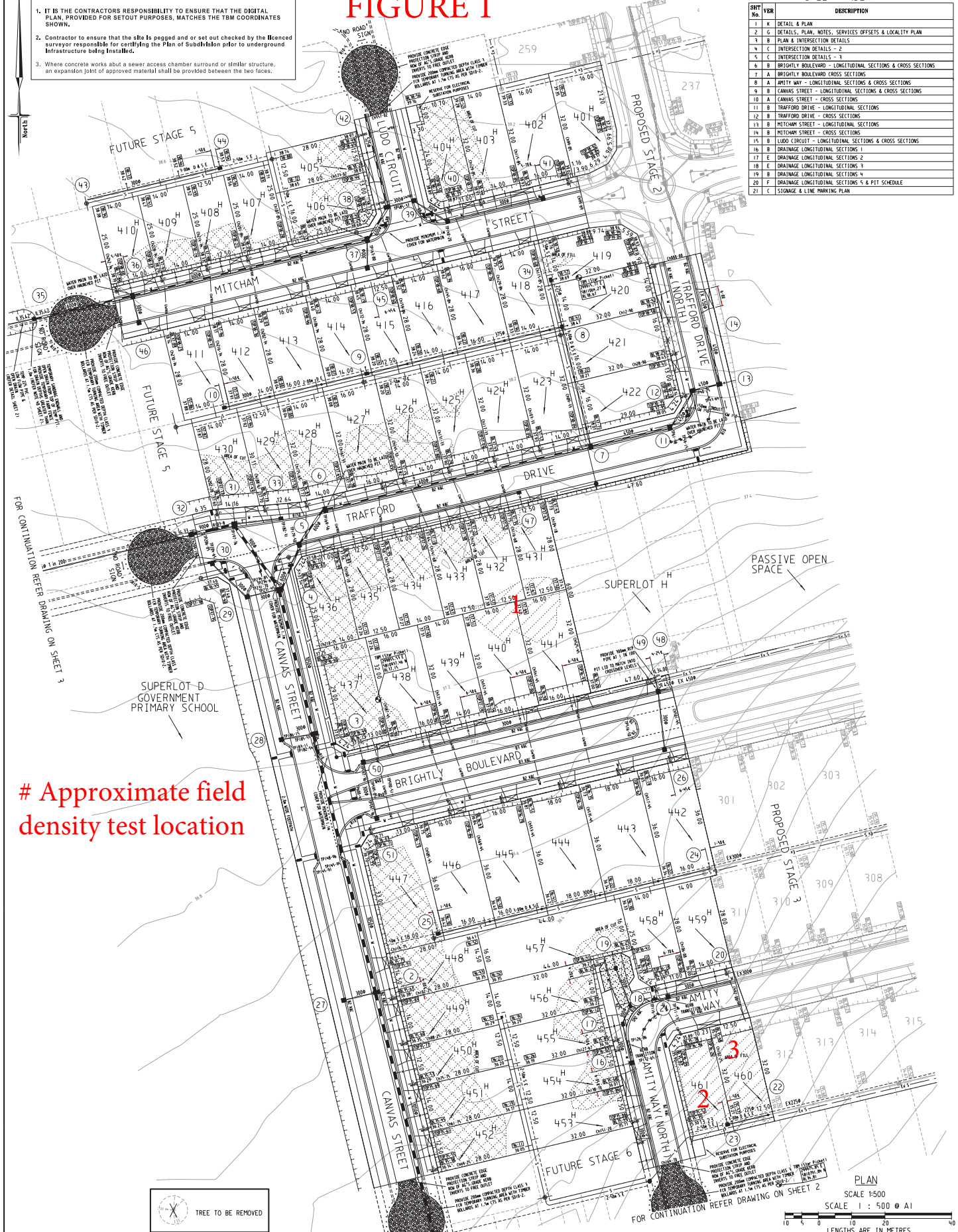
ATTENTION TO CONTRACTOR

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
- Contractor to ensure that the site is pegged and/or set out checked by the licensed surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
- Where concrete works about a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

FIGURE 1

SHEET INDEX

SHT No.	VER	DESCRIPTION
1	K	DETAIL & PLAN
2	G	DETAILS, PLAN, NOTES, SERVICES OFFSETS & LOCALITY PLAN
3	B	PLAN & INTERSECTION DETAILS
4	C	INTERSECTION DETAILS - 2
5	C	INTERSECTION DETAILS - 3
6	B	BRIGHTLY BOULEVARD - LONGITUDINAL SECTIONS & CROSS SECTIONS
7	A	BRIGHTLY BOULEVARD CROSS SECTIONS
8	A	MITCHAM WAY - LONGITUDINAL SECTIONS & CROSS SECTIONS
9	B	CANNAS STREET - LONGITUDINAL SECTIONS & CROSS SECTIONS
10	A	CANNAS STREET - CROSS SECTIONS
11	B	TRAFFORD DRIVE - LONGITUDINAL SECTIONS
12	B	TRAFFORD DRIVE - CROSS SECTIONS
13	B	MITCHAM STREET - LONGITUDINAL SECTIONS
14	B	MITCHAM STREET - CROSS SECTIONS
15	B	LUDD CIRCUIT - LONGITUDINAL SECTIONS & CROSS SECTIONS
16	B	DRAINAGE LONGITUDINAL SECTIONS 1
17	E	DRAINAGE LONGITUDINAL SECTIONS 2
18	E	DRAINAGE LONGITUDINAL SECTIONS 3
19	B	DRAINAGE LONGITUDINAL SECTIONS 4
20	F	DRAINAGE LONGITUDINAL SECTIONS 5 & PIT SCHEDULE
21	C	STORAGE & LINE PARKING PLAN



Approximate field density test location



SYMBOL LEGEND

Prop	Exist
Drains	Ex/Natural/FS Level
Sewer <300	FS # Building Line
Sewer >300	Top/Foe of Batter
Water	Top Ret. Wall Level
House Drain	100yr Flood Level
Property Inlet	Fill Prop/Ex
Street Sign	Cut Prop/Ex
PSM	Ex. Gas/Elec/Tel
Retaining Wall	TBM
Conduits 50mm	
Conduits 100mm	
Ex. Gas/Elec/Tel	
TBM	

REV	DATE	REMARKS
K	09/05/18	SHEET INDEX AMENDMENTS
J	19/04/18	SHEET INDEX AMENDMENTS
I	05/04/18	WATER CONDUIT ADDED AT CORNER OF LOT 422 & CROSSOVER ADDED ACROSS FROM LOTS 420 & 421
H	23/03/18	WATER CONDUIT AMENDMENTS AT LOTS 417, 433, 434 & 435
G	08/02/18	SEWER ALIGNMENT AMENDMENTS
F	27/11/17	PIT 4 TO 32 PIPE DIAMETER AMENDED TO 9000
E	14/11/17	MEDIAN AMENDMENTS AT TP 516.50 & INVERT LEVEL ADDED AT P.T. 42

breese pitt dixon pty ltd.
land surveyors civil engineers

MELWAY REF. 360-E-11
SURVEY BPD
DESIGN D.P.
DRAWN D.P.

**ALBRIGHT ESTATE
STAGE 4**

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

MUNICIPALITY
WYNDHAM

REFERENCE
9354 E/4

SCALE AS SHOWN DATUM AHD DATE JUN 17 SHEET 1 OF 21 K

PLAN
SCALE 1:500
SCALE 1 : 500 @ A1
LENGTHS ARE IN METRES



COMPACTION ASSESSMENT

Job No 19113
 Report No 19113/R001
 Date Issued 30/11/2018

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALBRIGHT ESTATE - STAGE 4	Date tested	09/06/18
Location	TRUGANINA	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:35
----------------	------------	-----------------	--------	-------------

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL						
Measurement depth <i>mm</i>	175	175	175	-	-	-
Field wet density <i>t/m³</i>	1.81	1.80	1.83	-	-	-
Field moisture content <i>%</i>	23.9	25.7	26.4	-	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve <i>mm</i>	19.0	19.0	19.0	-	-	-
Percent of oversize material <i>wet</i>	0	0	0	-	-	-
Peak Converted Wet Density <i>t/m³</i>	1.87	1.87	1.88	-	-	-
Adjusted Peak Converted Wet Density <i>t/m³</i>	-	-	-	-	-	-
Optimum Moisture Content <i>%</i>	26.0	28.0	27.5	-	-	-

Moisture Variation From Optimum Moisture Content	2.0% dry	2.5% dry	1.0% dry	-	-	-
--	-------------	-------------	-------------	---	---	---

Density Ratio (R_{HD})	%	97.0	96.0	97.5	-	-	-
--	----------	-------------	-------------	-------------	---	---	---

Material description

No 1 - 3 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 to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry