



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

24th February 2016

Our Reference: 15396:DK127

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ASPIRE ESTATE (STAGE 12) – HILLSIDE

Please find attached our Report No 15396/R001 that 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 was performed in late August 2015.

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 inspections and testing was performed by an experienced geotechnician 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 filled 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 filled 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.

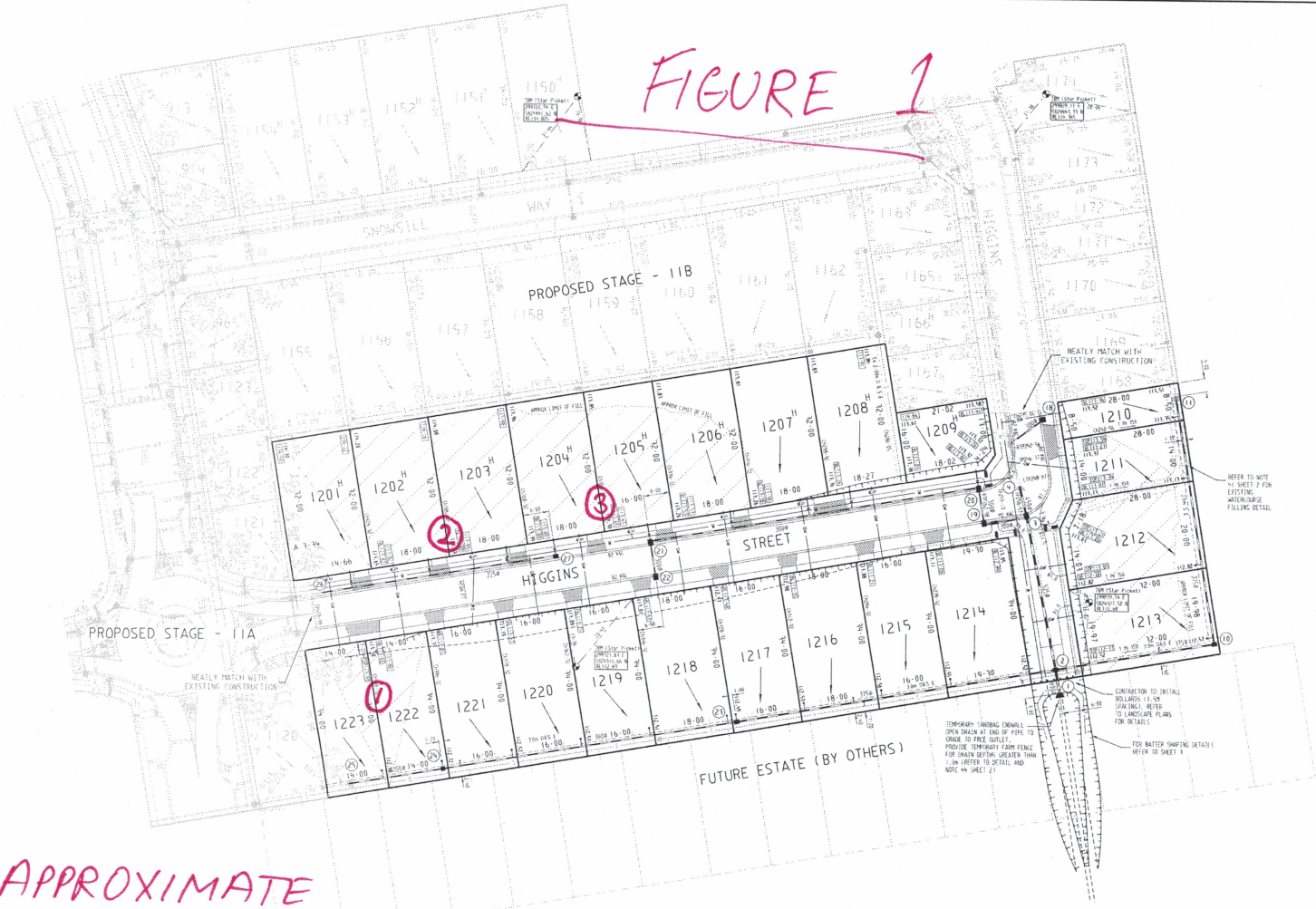
Civil Geotechnical Services

Dino Kondzic

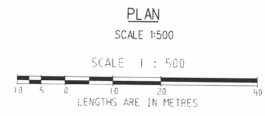
FIGURE 1



LOCALITY PLAN
SCALE 1:20000



**⊕ APPROXIMATE
FIELD DENSITY
LOCATION**



SHEET INDEX

SHT No	VIEW	DESCRIPTION
1	A	PLAN, LOCALITY PLAN & SERVICES SCHEDULE
2	A	NOTES, TYPICAL SECTIONS, PAVEMENT & OUTFALL CHANNEL DETAIL
3	A	INTERSECTION DETAILS
4	A	LONGITUDINAL SECTION - HIGGINS STREET
5	A	CROSS SECTIONS - HIGGINS STREET
6	A	DRAINAGE LONGITUDINAL SECTIONS AND PIT SCHEDULE
7	A	LANDSCAPING AND CONCRETE JOINING

SERVICES OFFSETS AND LOCATIONS

STREET	NAME	RESERVE	WATER	GAS	ELECTRICITY CABLES	POLES	FIBRE TO THE HOME	PL. OF KERB	JOINT TRENCHING	VICIODE STREET CLASSIFICATION	
HIGGINS STREET (EAST-WEST)		14-00	2-60 N	2-10 N	2-30 S	0-80 BOX	1-80 S	1-170M	4-20 N & S	W.G & F.T.M.E.	ACCESS STREET
HIGGINS STREET (NORTH-SOUTH)		14-00	2-60 W	2-10 W	2-30 E	0-80 BOX	1-80 E	1-170M	4-20 E & W	W.G & F.T.M.E.	ACCESS STREET
SHARED DRIVEWAY FLOORS (1212-1213)		12-00	2-60 W	2-10 W	2-30 E	0-80 BOX	1-80 E	1-170M	1-40 E & W	W.G & F.T.M.E.	SHARED DRIVEWAY

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 licenced 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.

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.

SYMBOL LEGEND

Grains	Prop	Cont	Ex/Natural/FS Level
Sewer <100	FS @ Building Line	Top/Toe of Batter	100yr Flood Level
Sewer >100	Moisture Drain	100yr Flood Level	Fill Prop/Ex
Water	Property Inlet	Retaining Wall	Cut Prop/Ex
Street Sign	PSM	Conduits 150mm	
Conduits 100mm		Conduits 100mm	
Ex Gas/Elect/Tel			

NO.	DATE	ISSUED FOR	REMARKS
1	15/05/15	ISSUED FOR CONSTRUCTION	

breese pitt dixon pty. ltd.
land surveyors
civil engineers

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

MELWAY REF. 356-D-2

SURVEY BPD

DESIGN JT

DRAWN JT

SCALE AS SHOWN DATUM AHD DATE MAY 15

SHEET 1 OF 7

ASPIRE ESTATE
STAGE 12

MUNICIPALITY
MELTON

REFERENCE
8226 E/12



COMPACTION ASSESSMENT

Job No 15396
 Report No 15396/R001
 Date Issued 18/09/15

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JWM
Project	ASPIRE - STAGE 12	Date tested	31/08/15
Location	HILLSIDE	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	-	-	-
	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL						
Measurement depth	mm	175	175	175	-	-
Field wet density	t/m ³	1.81	1.89	1.72	-	-
Field moisture content	%	25.2	34.1	27.1	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	-	-
Percent of oversize material	wet	5	0	0	-	-
Peak Converted Wet Density	t/m ³	1.86	1.86	1.81	-	-
Adjusted Peak Converted Wet Density	t/m ³	1.89	-	-	-	-
Optimum Moisture Content	%	26.5	33.0	27.5	-	-

Moisture Variation From Optimum Moisture Content	1.0% dry	1.0% wet	0.5% dry	-	-	-
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Density Ratio (R _{HD})	%	95.5	101.5	95.5	-	-
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Material description

No 1 - 3 Clay Fill



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