



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

8th August 2018

Our Reference: 18467:NB251

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ASTON – STAGE 30 (CRAGIEBURN)

Please find attached our Report No 18467/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 was performed in June 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).

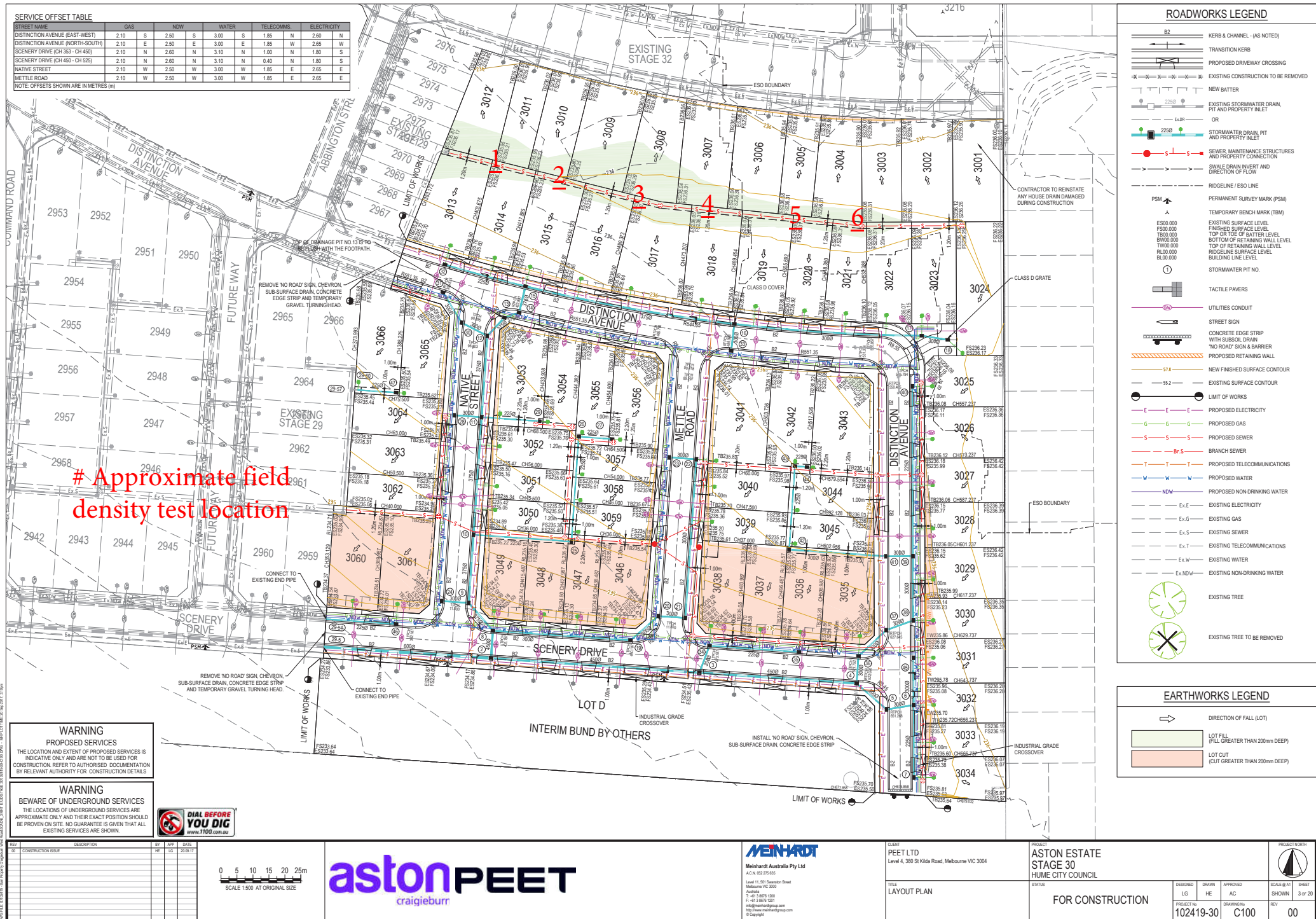
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

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

Nick Brock

FIGURE 1



SERVICE OFFSET TABLE

STREET NAME	GAS	NOW	WATER	TELECOMMS	ELECTRICITY
DISTINCTION AVENUE (EAST-WEST)	2.10 S	2.50 S	3.00 S	1.85 N	2.60 N
DISTINCTION AVENUE (NORTH-SOUTH)	2.10 E	2.50 E	3.00 E	1.85 W	2.65 W
SCENERY DRIVE (CH 353 - CH 450)	2.10 N	2.60 N	3.10 N	1.00 N	1.80 S
SCENERY DRIVE (CH 450 - CH 525)	2.10 N	2.60 N	3.10 N	0.40 N	1.80 S
NATIVE STREET	2.10 W	2.50 W	3.00 W	1.85 E	2.65 E
METTLE ROAD	2.10 W	2.50 W	3.00 W	1.85 E	2.65 E

NOTE: OFFSETS SHOWN ARE IN METRES (M)

ROADWORKS LEGEND

- B2 KERB & CHANNEL - (AS NOTED)
- TRANSITION KERB
- PROPOSED DRIVEWAY CROSSING
- EXISTING CONSTRUCTION TO BE REMOVED
- NEW BATTER
- EXISTING STORMWATER DRAIN, PIT AND PROPERTY INLET
- OR
- STORMWATER DRAIN, PIT AND PROPERTY INLET
- SEWER MAINTENANCE STRUCTURES AND PROPERTY CONSTRUCTION
- SMALL DRAIN INVERT AND DIRECTION OF FLOW
- RIDGELINE / ESO LINE
- PERMANENT SURVEY MARK (PSM)
- TEMPORARY BENCH MARK (TBM)
- EXISTING SURFACE LEVEL
- FINISHED SURFACE LEVEL
- TOP OF TIE OF BATTER LEVEL
- BOTTOM OF RETAINING WALL LEVEL
- TOP OF RETAINING WALL LEVEL
- RIDGELINE SURFACE LEVEL
- BUILDING LINE LEVEL
- STORMWATER PIT NO.
- TACTILE PAVERS
- UTILITIES CONDUIT
- STREET SIGN
- CONCRETE EDGE STRIP WITH SUBSID DRAIN
- "NO ROAD" SIGN & BARRIER
- PROPOSED RETAINING WALL
- NEW FINISHED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- LIMIT OF WORKS
- PROPOSED ELECTRICITY
- PROPOSED GAS
- PROPOSED SEWER
- BRANCH SEWER
- PROPOSED TELECOMMUNICATIONS
- PROPOSED WATER
- PROPOSED NON-DRINKING WATER
- EXISTING ELECTRICITY
- EXISTING GAS
- EXISTING SEWER
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING NON-DRINKING WATER
- EXISTING TREE
- EXISTING TREE TO BE REMOVED

EARTHWORKS LEGEND

- DIRECTION OF FALL (LOT)
- LOT FILL (FILL GREATER THAN 200mm DEEP)
- LOT CUT (CUT GREATER THAN 200mm DEEP)

WARNING PROPOSED SERVICES
 THE LOCATION AND EXTENT OF PROPOSED SERVICES IS INDICATIVE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. REFER TO AUTHORIZED DOCUMENTATION BY RELEVANT AUTHORITY FOR CONSTRUCTION DETAILS

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.



REV	DESCRIPTION	BY	APP	DATE
01	CONSTRUCTION ISSUE	HE	UD	20.09.17



CLIENT
 PEET LTD
 Level 4, 380 St Kilda Road, Melbourne VIC 3004

TITLE
 LAYOUT PLAN

PROJECT
 ASTON ESTATE
 STAGE 30
 HUME CITY COUNCIL

STATUS
 FOR CONSTRUCTION

DESIGNED LG	DRAWN HE	APPROVED AC
PROJECT NO. 102419-30	DRAWING NO. C100	REV 00

SCALE & SHEET
 3 of 20

PROJECT: ASTON ESTATE STAGE 30 PEET LTD. SHEET: C100. DATE: 20.09.17. SCALE: 1:500 AT ORIGINAL SIZE.



COMPACTION ASSESSMENT

Job No 18467
 Report No 18467/R001
 Date Issued 01/08/2018

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ASTON - STAGE 30	Date tested	31/06/18
Location	CRAGIEBURN	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	08:30
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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	1.86	1.87	1.84	1.84	1.87	1.84
Field moisture content	%	14.4	13.1	14.6	13.3	14.2	12.3

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	1.91	1.94	1.89	1.88	1.91	1.93
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	16.0	15.0	16.0	15.5	15.0	15.0

Moisture Variation From Optimum Moisture Content	1.5% dry	2.0% dry	1.5% dry	2.0% dry	1.0% dry	2.5% dry
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Density Ratio (R _{HD})	%	97.0	96.5	97.5	98.0	98.0	95.5
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Material description

No 1 - 6 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