



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

4th May 2020

Our Reference: 19390:NB728

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ARMSTRONG – STAGE 42 (MOUNT DUNEED)

Please find attached our Report No 19390/R001 which relates to the field density testing that was conducted within the filled allotments of the above subdivision. The level 1 inspections and associated field density testing was performed in April 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).

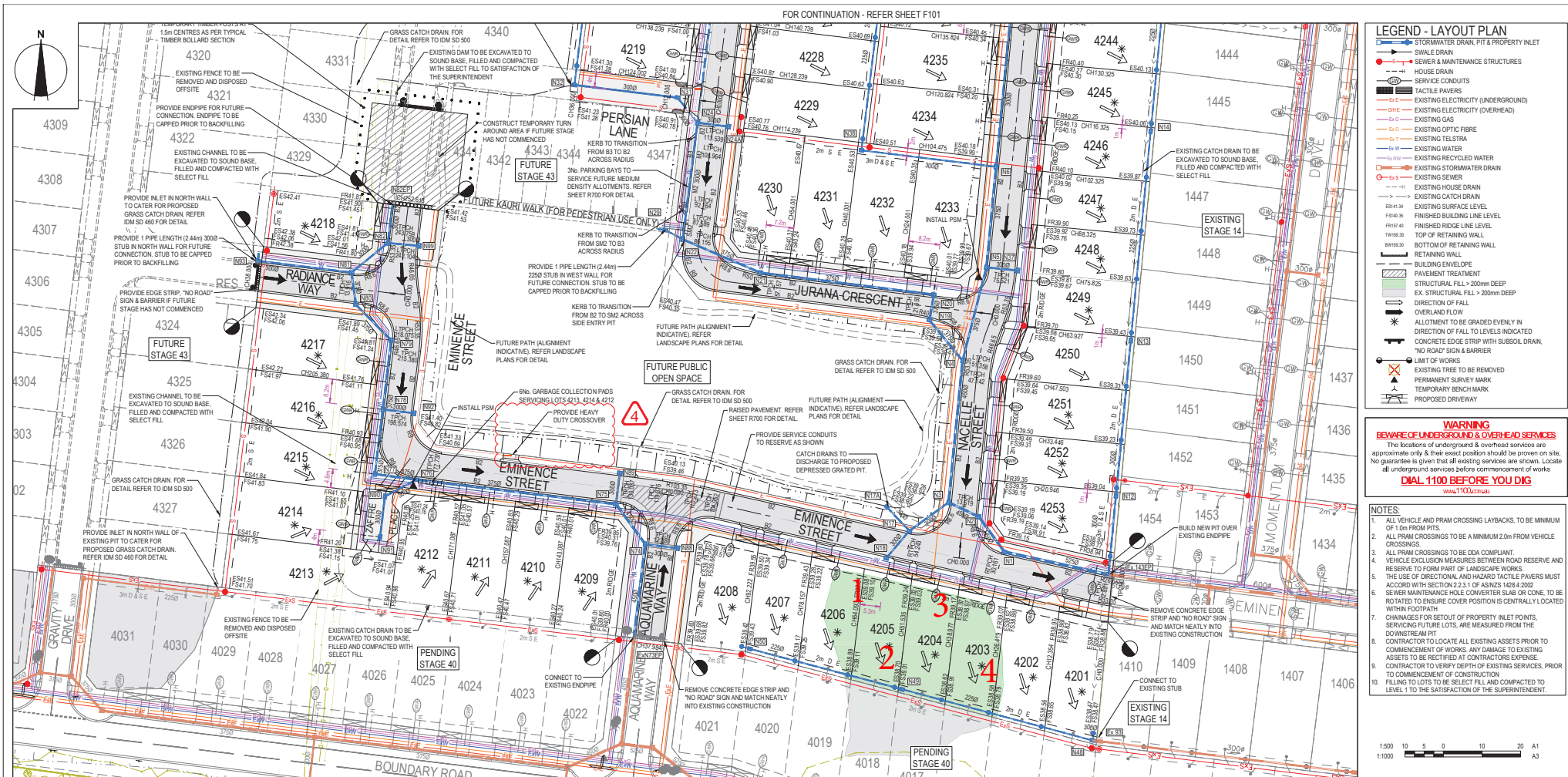
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

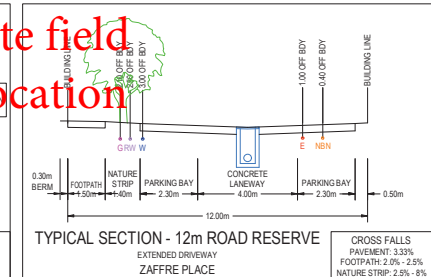
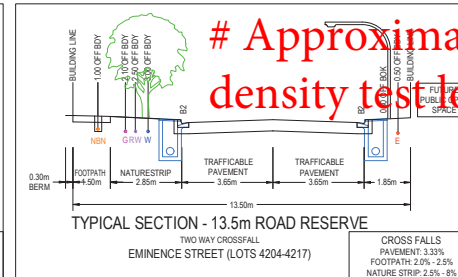
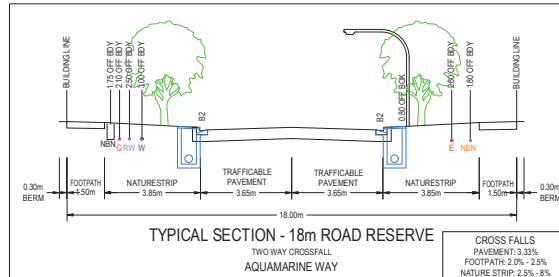
Nick Brock

FIGURE 1 (1 of 2)



SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		RECYCLED WATER		POTABLE WATER		OPTIC FIBRE		ELECTRICITY	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
GRAVITY DRIVE	N	3.40	N	3.80	N	4.25	S	1.80	S	2.40
EMINENCE STREET (LOT 4201)	N	2.10	N	2.40	N	2.90	S	1.80	S	2.60
EMINENCE STREET (LOT 4202-4203)	S	2.10	S	2.50	S	3.00	S	1.00	N	2.60
EMINENCE STREET (LOT 4204-4217)	S	2.10	S	2.50	S	3.00	S	1.00	N	0.50
EMINENCE STREET (LOT 4218)	W	2.10	W	2.50	W	3.00	E	1.80	E	2.60
ZAFFRE PLACE	W	2.10	W	2.50	W	3.00	E	1.80	E	2.60
JURANA CRESCENT (LOT 4230-4233)	N	2.10	N	2.50	N	3.00	S	0.40	S	1.00
JURANA CRESCENT (LOT 4234-4235)	W	2.10	W	2.50	W	3.00	E	1.80	E	2.60
NACELLE STREET (LOT 4250-4253)	E	2.10	E	2.50	E	3.00	W	0.30	W	1.10
NACELLE STREET (LOT 4254-4258)	W	2.10	W	2.50	W	3.00	E	1.80	E	2.60
AQUAMARINE WAY	W	2.10	W	2.50	W	3.00	E	1.80	E	2.60
BOUNDARY ROAD	-	-	-	-	-	-	N	0.50	N	1.10
RADIANCE WAY	N	2.10	N	2.50	N	3.00	S	1.80	S	2.60



Approximate field density test location

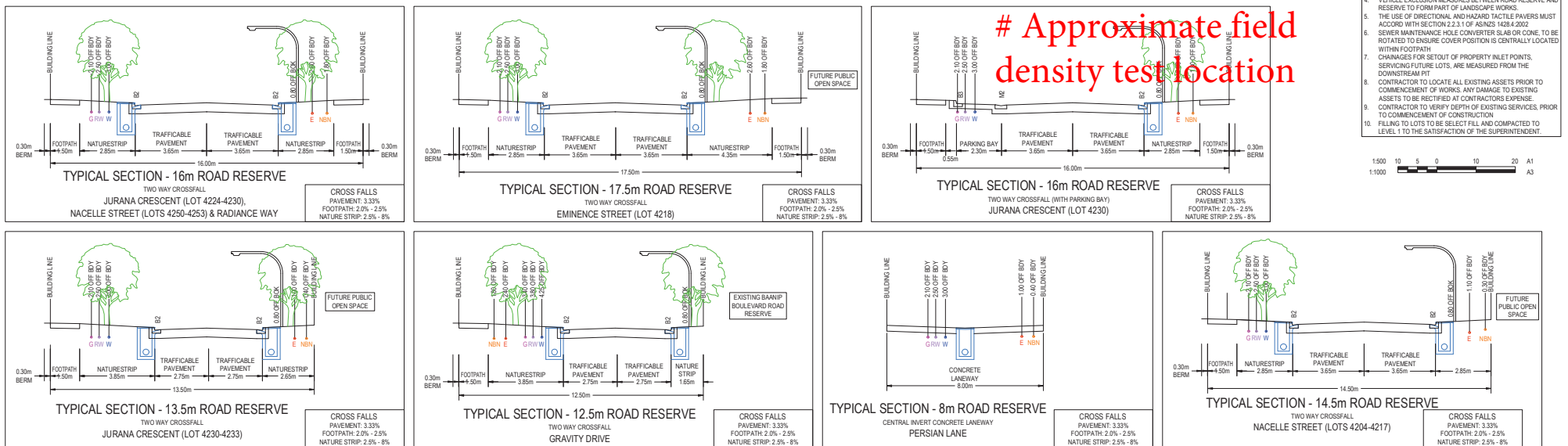
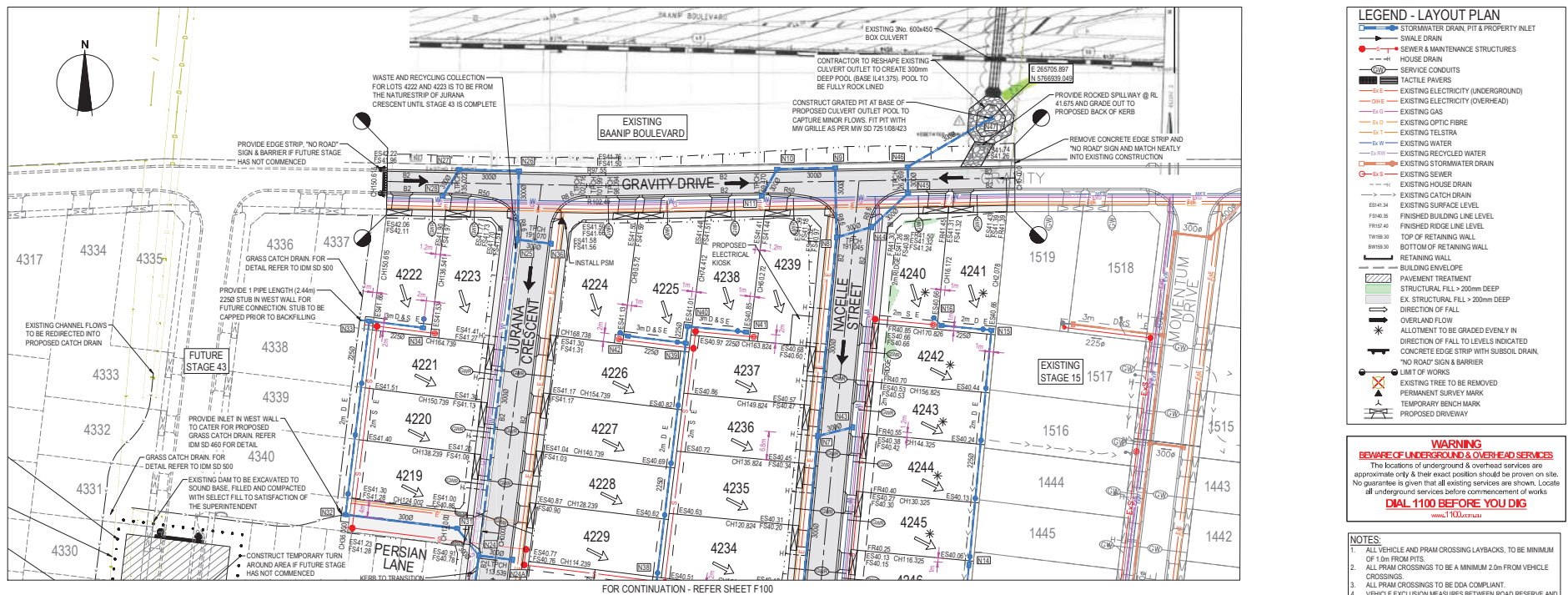
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED
3	16/05/19	ADDED CROSSOVER FOR ACCESS TO OPEN SPACE OPPOSITE LOT 4211	S.D.	S.D.	T.P.
4	15/05/19	LOT 4205 CROSSOVER RELOCATED & GRASS LINE NOT A18 AMENDED	M.T.	M.T.	T.P.
2	07/02/19	LOT 4250 CROSSOVER RELOCATED	M.T.	M.T.	T.P.
1	23/10/18	RESERVE BOUNDARY AND S.O.S AMENDED	M.T.	M.T.	T.P.
6	18/08/18	CONSTRUCTION ISSUE	M.T.	M.T.	T.P.
8	12/08/18	COUNCIL COMMENTS DATED 11/08/18	M.T.	M.T.	T.P.
B	31/08/18	COUNCIL COMMENTS DATED 23/08/18	M.T.	M.T.	T.P.
A	03/08/18	ISSUED TO COUNCIL FOR APPROVAL	M.T.	M.T.	A.W.



PROJECT	ARMSTRONG - STAGE 42 LAYOUT PLAN - 1
DRAWING TITLE	ARMSTRONG - STAGE 42 LAYOUT PLAN - 1
STATUS	ISSUED FOR CONSTRUCTION
PROJECT ENGINEER	T.PALIOS
PROJECT MANAGER	T.PALIOS
DATE FIRST ISSUE	AUG 2018
PROJECT NO.	180016.42
DRAWING NO.	R200
REVISION	4

SCALE AT	1:500 @ A1
DRAWN	M. TROUCE
DESIGNED	M. TROUCE
PROJECT ENGINEER	T.PALIOS
PROJECT MANAGER	T.PALIOS
DATE FIRST ISSUE	AUG 2018
PROJECT NO.	180016.42
DRAWING NO.	R200
REVISION	4

FIGURE 1 (2 of 2)

[illegible]



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 19390
Report No 19390/R001
Date Issued 04/05/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BGG
Project	ARMSTRONG - STAGE 42	Date tested	30/04/20
Location	MOUNT DUNEED	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 10:44
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	4	-	-
Location	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	-	-
Field wet density t/m ³	2.00	2.00	1.93	1.93	-	-
Field moisture content %	12.4	16.0	14.3	13.6	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	4	-	-
Compactive effort	Standard					
Oversize rock retained on sieve mm	19.0	19.0	19.0	19.0	-	-
Percent of oversize material wet	0	0	0	0	-	-
Peak Converted Wet Density t/m ³	2.03	2.03	1.96	1.96	-	-
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	14.5	18.5	16.5	16.0	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.5% dry	2.5% dry	-	-
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Density Ratio (R_{HD})	%	98.5	98.5	98.5	98.5	-	-
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Material description

No 1 - 4 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