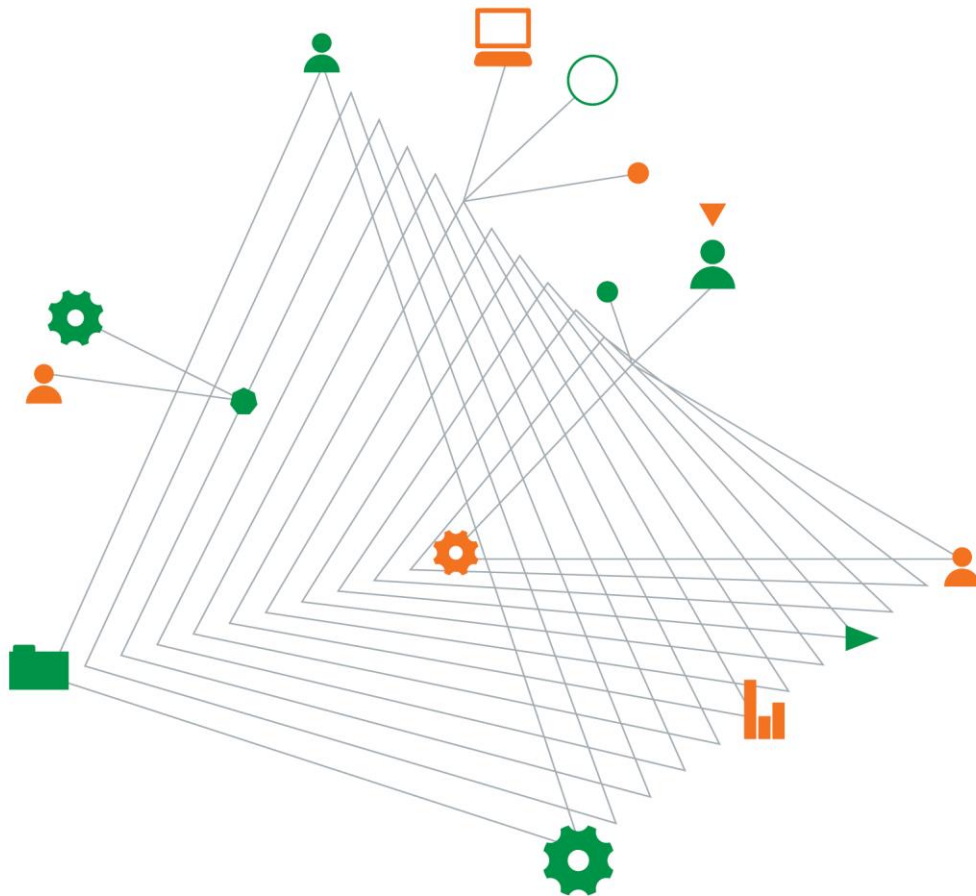


Peet No. 1895 Pty Ltd

**Level 1 Inspection and Testing, Stage 3 –
Civil works 5 & 6, Little Green Residential
Precinct 1**

GEOTABTF09878AA-AH

23 January 2017



Experience
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Level 1 Inspection and Testing, Stage 3 – Civil works 5 & 6, Little Green Residential Precinct 1

Prepared for
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For and on behalf of Coffey

Trevor Smith
Principal Engineering Geologist



Quality information

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Appendix B - "Little Green Residential Precinct 1 Stage 3 - civil works 5 & 6" civil drawings

Appendix C - Summary of imported fill material

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1. Introduction

This report presents the results of the Level 1 Inspection and Testing for fill placement within Stage 3 - Civil works 5 & 6 of Little Green Residential Estate Precinct 1, Tarneit, undertaken by Coffey Services Australia Pty Ltd (Coffey).

The works were commissioned by Mark Zammataro of Spiire Australia Pty Ltd.

The Project was commenced on behalf of Amex Corporation Pty Ltd. On 1 March 2015 ownership transferred to Peet No 1895 Pty Ltd, the change in ownership had no significant influence on level 1 activities.

2. Project Summary

Level 1 Inspection and Testing, as defined in AS3798-2007 “Guidelines on Earthworks for Commercial and Residential Development,” provides for full time inspection of the construction of controlled fill and field and laboratory testing in accordance with AS1289 “Methods of Testing Soils for Engineering Purposes”.

The Level 1 Inspection was undertaken by geotechnical professionals from Coffey during the following dates listed in table 1. Testing was undertaken during this period in accordance with the required frequency.

Table 1: Dates of Level 1 supervision

Month	Dates
September 2015	24, 25, 28 and 30
October 2015	6-9, 10, 12-16, 19-23, 26-30
November 2015	4,10, 18, 19, 20, 23, 24, 25, 26, 27 and 30
December 2015	1, 2, 8, 9, 11, 15, 16, 17, 18, 21 and 22
January 2016	4-8
May 2016	23-25
July 2016	20, 21, 28-30
August 2016	16, 25, 26, 29 and 31
September 2016	1, 6, 7, 27-28
October 2016	5-7 and 18

The main contractor for the project was BMD Constructions who in combination with their subcontractor Fleet Plant Hire, have conducted the bulk earthworks at the site. Coffey undertook the compaction control testing in their NATA accredited laboratory, as part of the Level 1 Inspection and Testing process.

This report is applicable to fill placed by BMD and Fleet Plant Hire within Stage 3 - civil works 5 & 6 of the Little Green Estate development in the areas shown in Figure 1. Figure 1 also identifies the filling areas of the engineered fill platforms.

This report does not include fill other than where mentioned in this report or any other fill that may be placed during this period or subsequent periods at or surrounding the subject site. Excluded works comprise trench backfill, foot paths, landscaping fill, placement of topsoil, roadway testing, sewer and stormwater channels backfills.

3. Specification/work instructions

The specification for the project was prepared by Spiire Australia Pty Ltd for Little Green Residential Estate Precinct 1 under reference number “301119 Little Green Bulk Earthworks – Rev B” dated 20 February 2015. A maximum compacted layer thickness of 200 mm was to be followed for the project. However from 2 June, after discussions between Coffey, BMD and Spiire on 22 May 2015, a maximum compacted layer thickness of 300 mm was allowed. A testing depth of 275mm was adopted to provide results for the full layer thickness. The extract of the specified requirements is provided in Appendix B and a short summary is provided below:

- All filling shall be to a level 150 mm below the finished surface level shown and compacted as per AS3798-1998. Filling material is to be in accordance with the specification and to the satisfaction of council and the superintendent.
- Filling material is to be in accordance with the specification of AS3798-2007 and to the satisfaction of council and the superintendent.
- All filling on lots and within road reserves greater than 200mm is to be undertaken using level 1 supervision and completed in accordance with AS 3798-2007.
- Item 13 of the Specifications under reference “301119 Little Green Bulk Earthworks – Rev B” dated 20 February 2015 notes that fill placed on allotment areas is to achieve the following specifications:
 - o Maximum dry density of 98%;
 - o Minimum California Bearing Ratio (CBR) of 5%; and
 - o Bearing pressure of 100kPa at less than 1.0m depth from finished surface level or bulk filling surface level and bearing pressure of 150kPa at greater than 1.0m depth from finished surface level or bulk surface level.

Email correspondence from Mark Zammataro of Spiire sent to Coffey and BMD 25 May 2015 indicated that the filling works were to achieve the following specifications:

- o Layers not exceeding 200mm compacted thickness;
- o Density ratio to be minimum 95% Standard;
- o No CBR value requirement;
- o Moisture variation to be within 3% of the optimum moisture condition (OMC); and
- o Allowed rock size to be up to 130mm diameter, i.e. 2/3 of a layer.

Following further discussions between Mark Zammataro of Spiire and Sotir Stojcevski of Coffey, the specifications were altered to meet the following requirements:

- A compacted layer thickness not exceeding 300mm;
- Maximum dry density of 95%; and
- Moisture variation to be within $\pm 3\%$ OMC.

4. Fill Material

Fill used for the construction of Stage 3 - civil works 5 & 6 comprised of imported clay from various sites around Melbourne area. A spread sheet indicating the source name and estimated volumes is attached in Appendix C. It is noted that Coffey's summary of imported fill material was derived from daily discussions held by the Level 1 GITA representative and the site foreman

Environmental assessment of the imported materials is understood to have been conducted by the Contractor – BMD. A clean fill summary sheet is also attached in Appendix C as provided by BMD. The clean fill reports for the source locations are held by BMD.

Organic or deleterious matter and oversize materials that were observed within the imported fill were removed prior to placing the engineered fill platforms.

Coffey consider that the imported fill material was suitable for the construction of the engineered fill platforms.

5. Earthworks

The earthworks for this project included stripping of topsoil, proof rolling the subgrade and placement and compaction of fill to construct engineered fill platforms.

5.1. Subgrade assessment

The subgrade assessment was undertaken in Stage 3 - civil works 5 & 6 during the early stage of the works. The assessment was undertaken on 24-25 and 30 September 2015. Subgrade assessment was conducted following the removal of topsoil and before any fill was placed. In all areas the subgrade comprised natural clay of very stiff to hard consistency. No soft spots were observed during the subgrade proof rolling. Where organics and roots were observed, they were removed. And backfilled with engineered fill prior to bulk earthworks commencing. A surveyor engaged by BMD undertook a survey of the subgrade levels following Coffey's assessment.

5.1.1. Additional Subgrade Assessment

It was discovered that the area of earlier stockpile storage, encompassed in grid sections F6-South, F5-North, G6-South and G5-North, was compromised due to the volume of heavy traffic engaged in the stockpile removal and was no longer considered suitable founding material. This area was excavated down to subgrade level, proof rolled and successfully filled again. The subgrade was assessed and the area was remediated on the 5th of October 2016.

5.2. Fill construction

Fill material was placed generally in loose layers varying in thickness from 200 mm to 350 mm. Compacted layers were approximately 150 mm to 300 mm thick.

All sourced fill was trucked in and spread with a Bulldozer. A water cart and a pad foot roller were present onsite during works for moisture conditioning and compacting.

Coffey's Level 1 Inspector was on site on a full time basis during the placement, compaction and testing of the fill on the dates noted in Section 1 of this report. Coffey understands that Fleet Plant Hire and BMD did not place any fill within the platforms during this period when Coffey was absent from the site.

Were significant time gaps occurred in fill placement, the surface was scarified and watered prior to the re-commencement of fill placement.

6. Survey data and fill thickness

BMD's appointed surveyor Jac Surveyors Pty Ltd (SMS) conducted a survey of Stage 3 - civil works 5 & 6 after stripping the topsoil and after the subgrade was approved for placement of fill. The stripped surface levels are provided in Appendix B of this report under reference "Stage 3 Strip Surface."

As there was no final survey of the finished surface provided to Coffey, the stripped surface levels were compared with the survey plans of the design finished surface levels which can be found in Appendix B of this report under reference "Y02 002 302180 Little Green Stage 5 - R01-17 Rev 1 2016-06-06" & "Y02 001 302181 Little Green Stage 6 - R01-16 Rev 1 2016-07-22" as Stage 5 and 6 of the civil drawings dated June 2016 and July 2016 respectively.

After overlaying the stripped surface levels with the finished surface levels, the fill thicknesses could be summarised, both found in Appendix B under reference "survey overlay" and "Table 1." It can be seen in "Table 1" that the lots are compliant with the maximum layer thickness outlined by the Project Specifications and AS3798 – 2007.

Table 2: Layer Thickness Compliance

Fill Pad No.	Max. depth of Fill (m)	Recorded number of Layers	Complies with project specifications
1	0.727	4	YES
2	0.908	3	YES
3	1.208	4	YES
4	1.112	4	YES
5	1.420	5	YES

The survey shows that between 0.7m and 1.42m of fill was placed across the lots in Stage 3. Coffey observed the fill being placed between 1 and 5 layers in these areas across Stage 3 which resulted in maximum layer thickness of 300mm. The produced layer thickness for Fill Pads 1 to 5 are in compliance with the specifications of AS 3798-2007 and within the specifications outlined in section 3 of this report.

7. Testing and results

7.1 Density Testing

Field density testing was undertaken progressively on the compacted fill. Testing was undertaken under the following frequencies:

- 1 test per material type per layer per 2500 m² or 1 test per 500 m³ or 3 tests per lot – whichever requires most tests in accordance with Type 1 Earthworks (large scale operations) as defined in Table 8.1 of the AS 3798-2007.
- 1 test per layer or 1 test per 200 m³ distributed reasonably evenly throughout the fill depth or 1 test per residential lot – whichever requires the most tests in accordance with Type 2 Earthworks (small scale operations) as defined in Table 8.1 of the AS 3798-2007.

The field density testing was conducted by Coffey's personnel on site. All laboratory testing was performed in Coffey's NATA accredited laboratory. A Hilf rapid method compaction test (AS1289.5.7.1) was performed for each field density test.

A total of 132 field density tests were performed during the earthworks as presented in Figure 2. Of the 132 tests, 15 did not meet the specified criteria and these areas were subsequently re-worked and re-tested. Once retested, all test results met the specified dry density ratio criteria of 95% Standard and moisture variation of $\pm 3\%$ of the SOMC.

A summary of the test results obtained from the field density testing within the Stage 3 - Civil works 5 & 6 fill platforms are provided in a table presented as Figure 2. The laboratory test reports of the field density tests are presented in Appendix A.

7.1.1. Project Manager Passed Tests

Test numbers 8, 12, 14, 23 and 24 failed on the grounds of a slight shortfall moisture levels. These tests were passed by the project manager on the grounds that, before the next layer was placed, some pre-conditioning took place around the failed area of works. This, in combination with the fact that the compaction tests for these field density tests were well above satisfactory, lead the project manager to the conclusion that these tests were of specification quality.

Test numbers 74 and 106, also failed on the grounds of a shortfall in moisture. These tests were deemed of specification quality, by the project manager, as they are located on a verge and a batter. Level 1 testing was done in these, non-residential, areas in order to ensure extra quality. However, as these two areas are outside the project specifications, a retest was not deemed necessary.

Test numbers 117 and 118 were not retested as the area was excavated down to subgrade level and reworked completely.

8. Statement of compliance

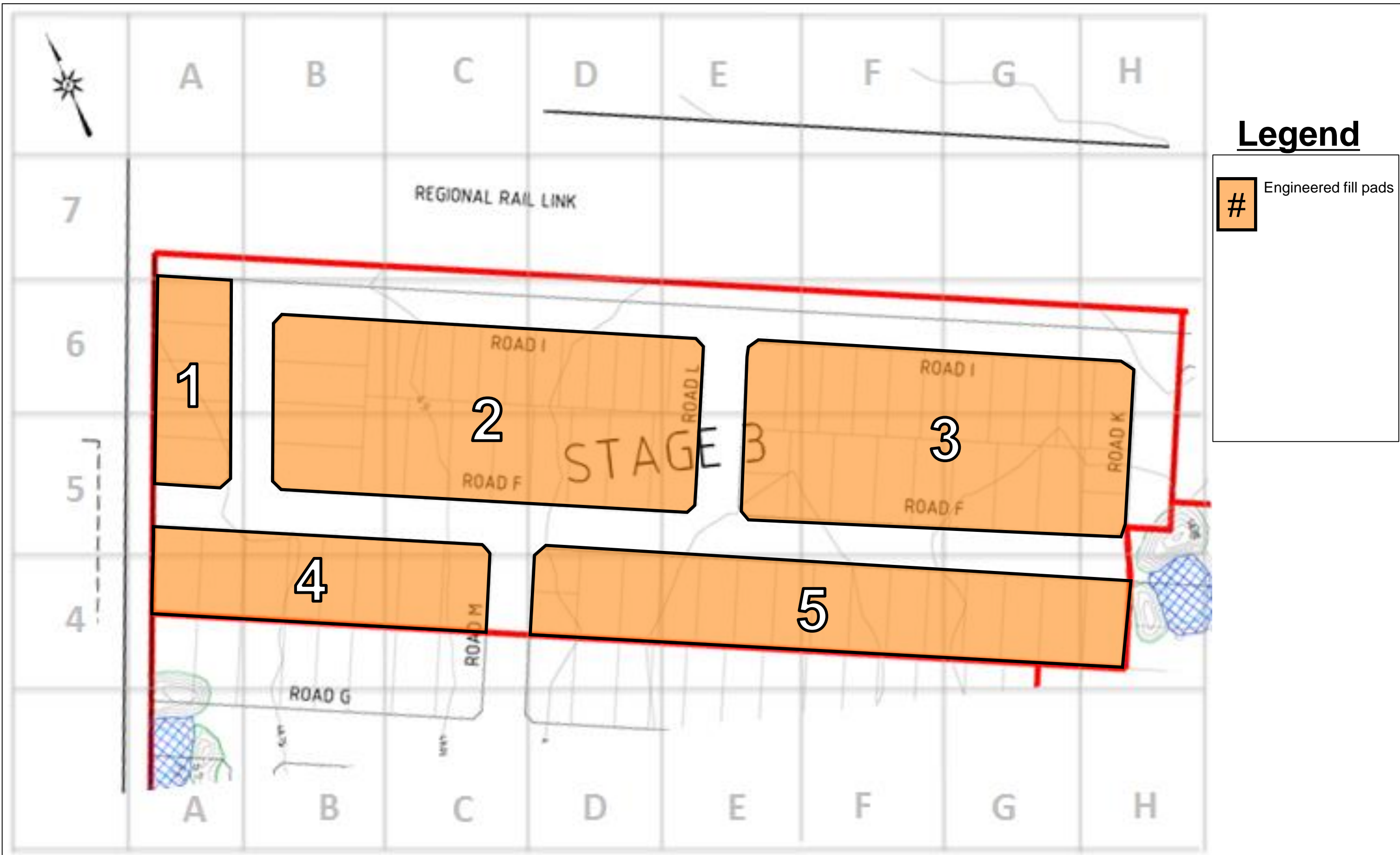
Coffey personnel have provided Level 1 Inspection and testing services during the construction of the engineered fill area within Stage 3 - Civil works 5 & 6 as shown in Figure 1. A geotechnical professional from Coffey (Level 1 Inspector) was on site on a full time basis during subgrade preparation and fill placement, and observed the construction techniques adopted.

Based on observations made by Coffey's Level 1 Inspector and the results of field and laboratory tests, Coffey consider that the engineered fill area within Stage 3 - Civil works 5 & 6 constructed by BMD to the levels indicated in Section 5, as far as we have been able to determine, has been placed in general accordance with the intent of the specification.

Figures


Figure 1- Field Density Test Locations

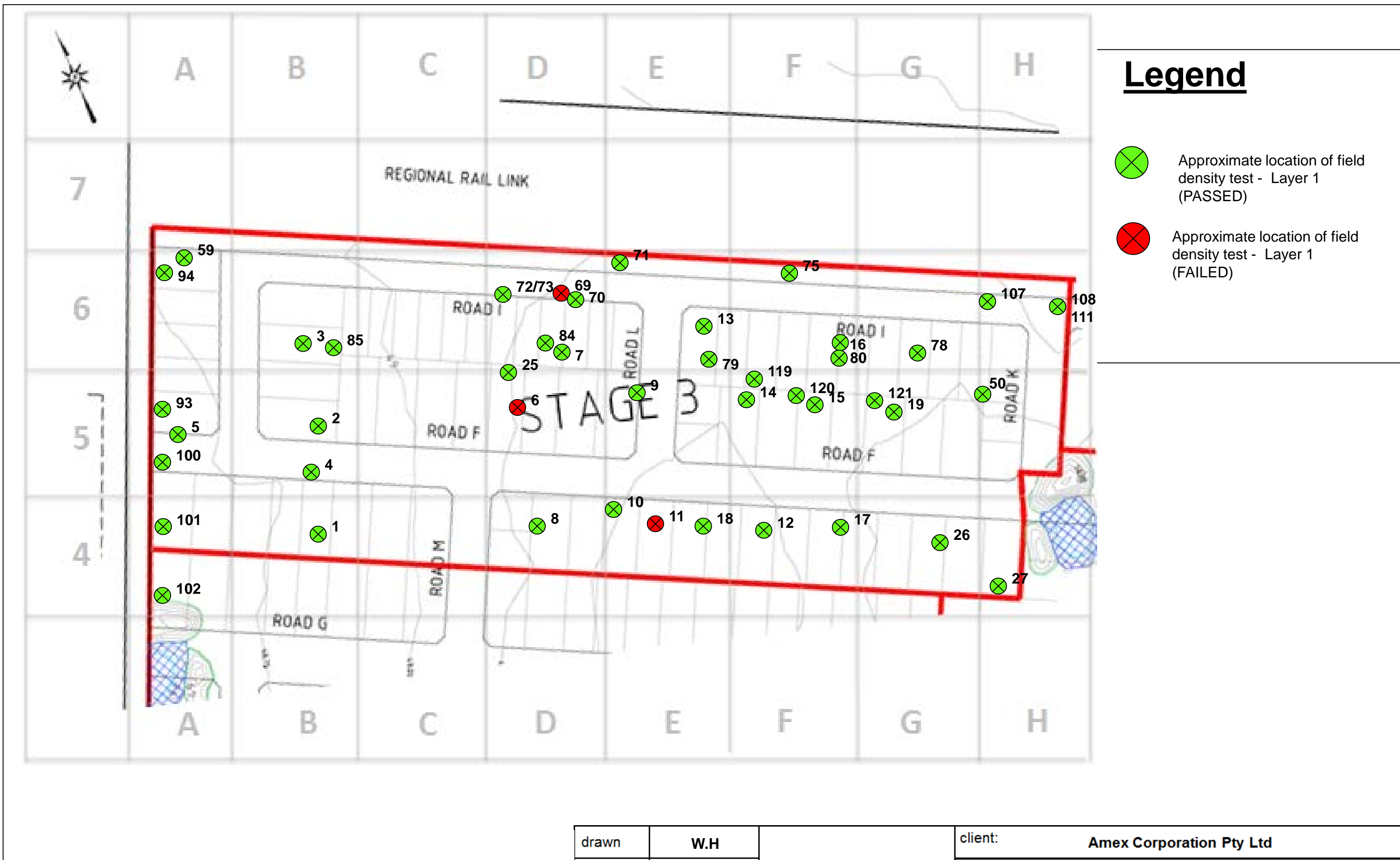
Figure 2 - Summary of Field Density Test Results




Legend

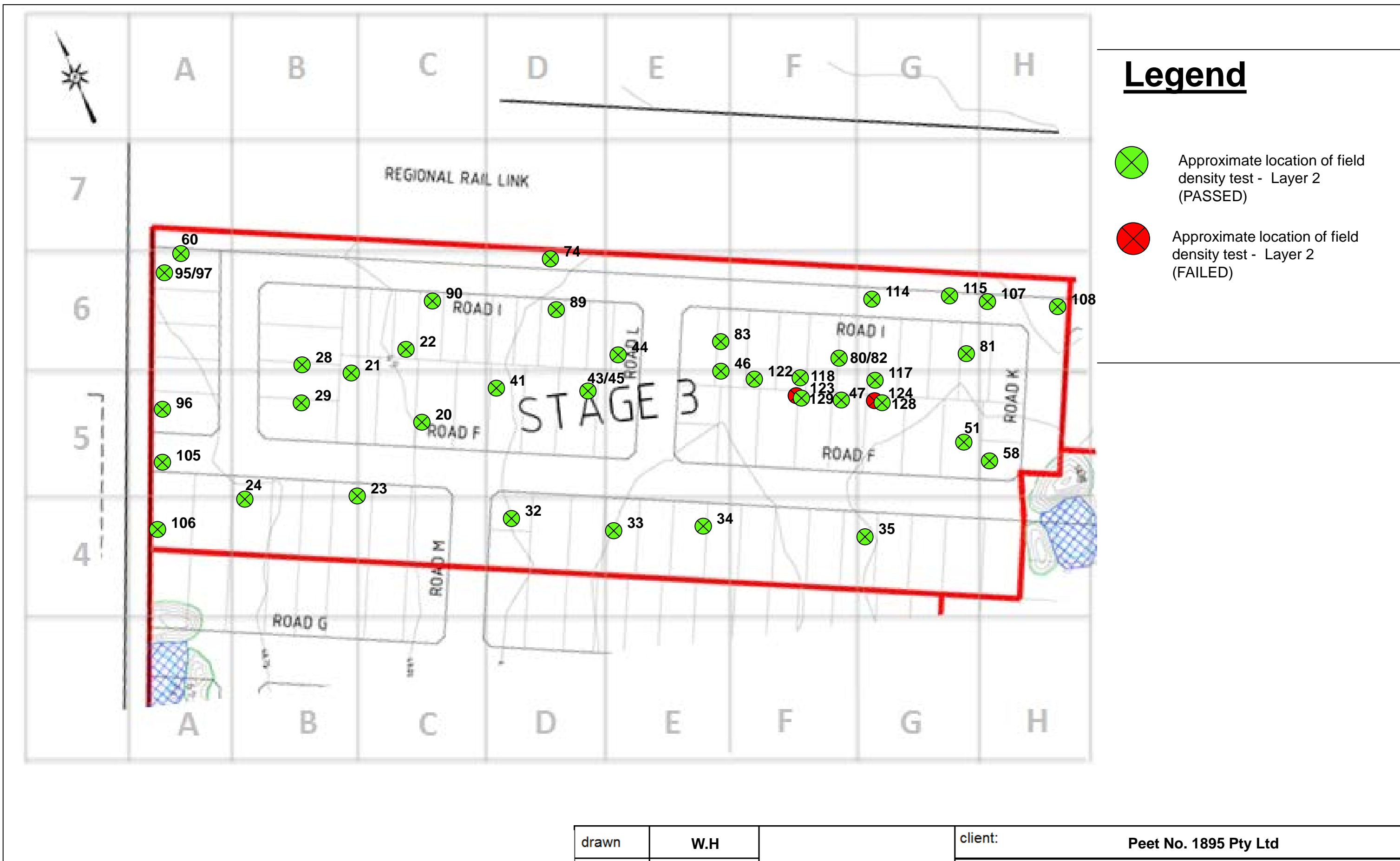
Engineered fill pads

revision	description	drawn	approved	date	drawn	W.H		client:	SPIRE		
					approved	SP		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	08/11/2016		title:	ENGINEERED FILL PAD PLAN		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	1
					original size	A3					



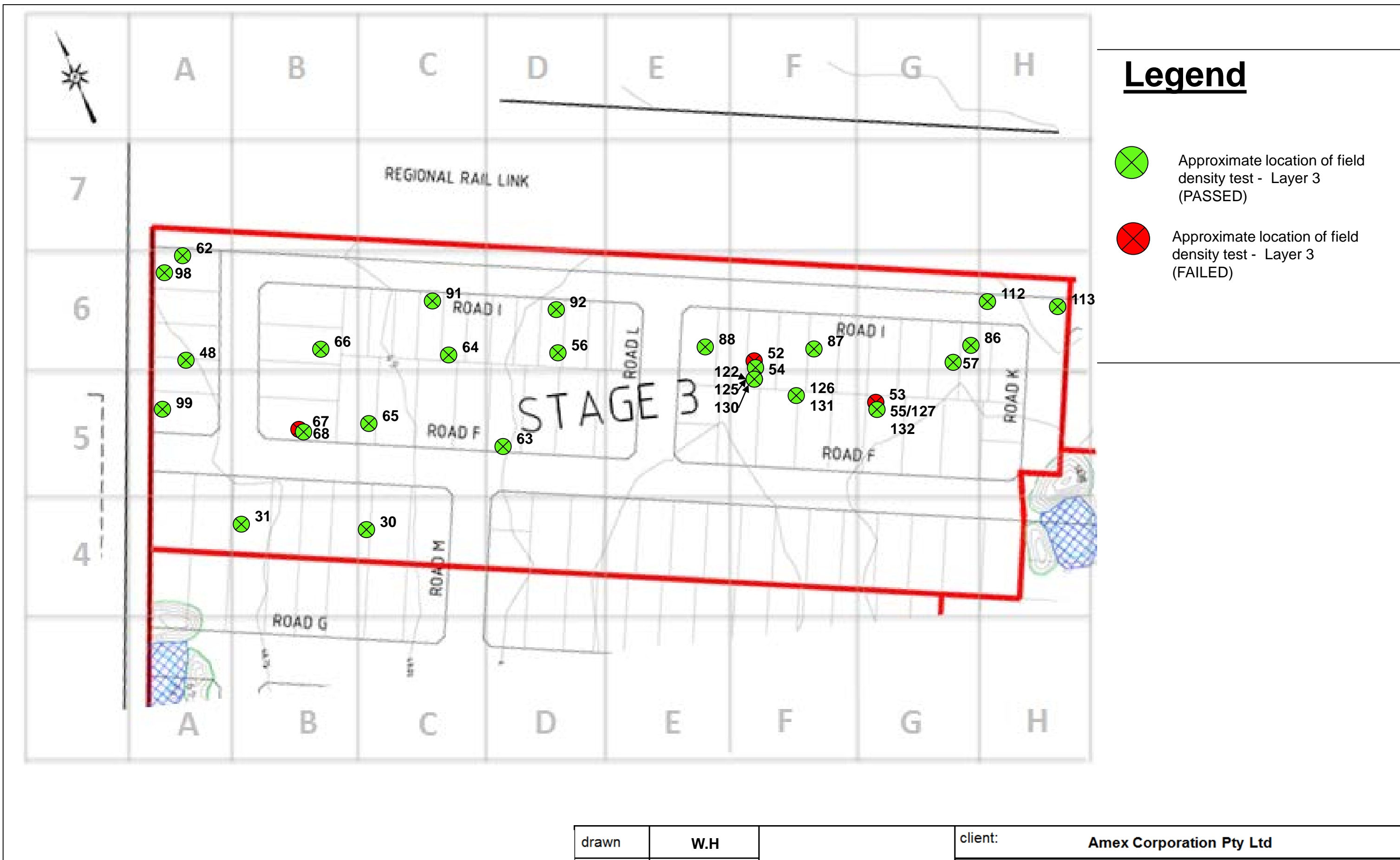
Source: Extracted from 301119
 LITTLE GREEN BULK
 EARTHWORKS - REV B

drawn	W.H	 A TETRA TECH COMPANY	client:	Amex Corporation Pty Ltd
approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3
date	08/11/2016		title:	Test locations for layer 1
scale	NTS		project no:	GEOTABTF09878AA
original size	A3		figure no:	Figure 1 - A



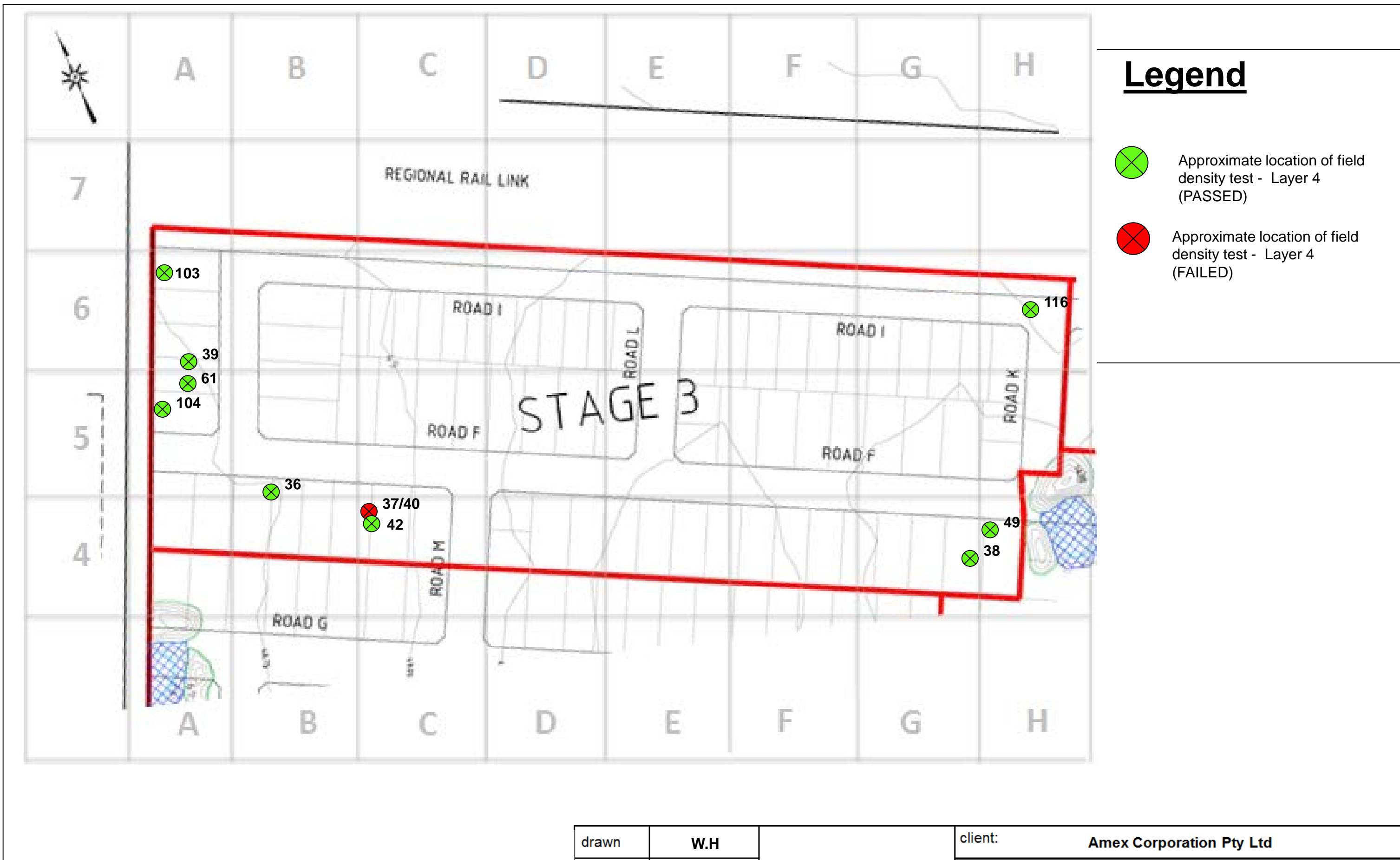
Source: Extracted from 301119
 LITTLE GREEN BULK
 EARTHWORKS - REV B

drawn	W.H	 A TETRA TECH COMPANY	client:	Peet No. 1895 Pty Ltd
approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3
date	08/11/2016		title:	Test locations for layer 2
scale	NTS		project no:	GEOTABTF09878AA
original size	A3		figure no:	Figure 1 - B



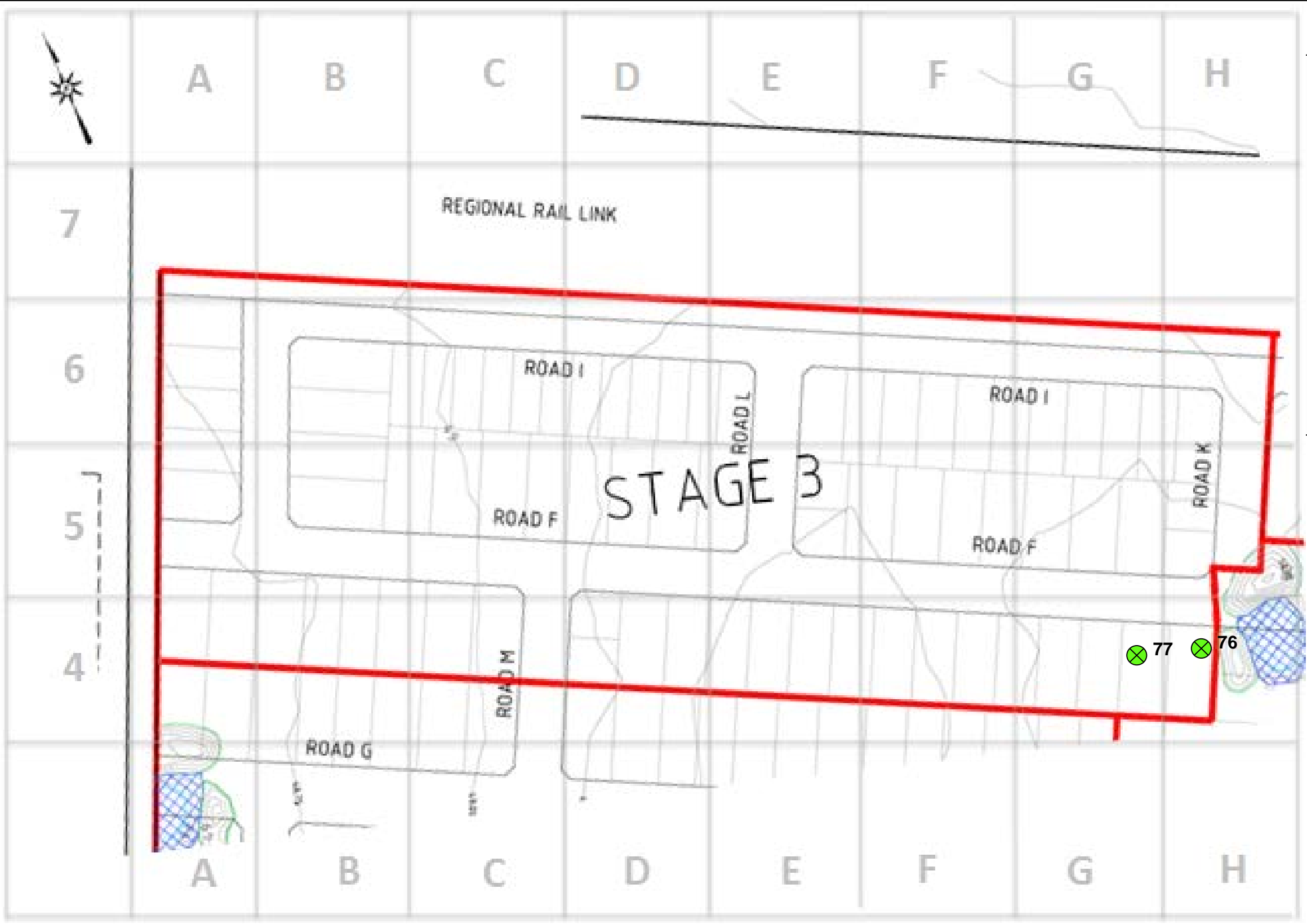
Source: Extracted from 301119
 LITTLE GREEN BULK
 EARTHWORKS - REV B

drawn	W.H	 A TETRA TECH COMPANY	client:	Amex Corporation Pty Ltd
approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3
date	08/11/2016		title:	Test locations for layer 3
scale	NTS		project no:	GEOTABTF09878AA
original size	A3		figure no:	Figure 1 - C



Source: Extracted from 301119
 LITTLE GREEN BULK
 EARTHWORKS - REV B

drawn	W.H		client: Amex Corporation Pty Ltd	
approved	S.P		project: LITTLE GREEN ESTATE- STAGE 3	
date	08/11/2016		title: Test locations for layer 4	
scale	NTS		project no: GEOTABTF09878AA	figure no: Figure 1 - D
original size	A3			



Legend

- ⊗ Approximate location of field density test - Layer 5 (PASSED)
- ⊗ Approximate location of field density test - Layer 5 (FAILED)

Source: Extracted from 301119
 LITTLE GREEN BULK
 EARTHWORKS - REV B

drawn	W.H	 A TETRA TECH COMPANY	client:	Amex Corporation Pty Ltd		
approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3		
date	08/11/2016		title:	Test locations for layer 5		
scale	NTS		project no:	GEOTABTF09878AA	figure no:	Figure 1 - E
original size	A3					

Project:		Little Green Estate			Coffey Job #:		GEOTABTF09878AA			Specification:		95% Hilt Density Ratio	
Client:		SPIRE/AMEX			Period:		July 2015- Current					±3% of OMC	
Test	Retest of Test	Day	Area	Layer	Field	Field	Hilt	Moisture	Moisture	Pass	Retest	Comment	
		/	Grid		Wet	Moisture	Density	Ratio	Variation	/		(source)	
#	#	Date		#	Density	Content	Ratio	%	of OMC	Fail	#		
					t/m3	%	%	%	%				
1		Friday, 25 September 2015	B4	1	1.9	28	96	90.5	2.5 dry	Pass			
2		Friday, 25 September 2015	B5	1	1.93	23	96.5	90	2.5 dry	Pass			
3		Monday, 28 September 2015	B6	1	1.99	16.5	98	86.5	2.5 dry	Pass			
4		Monday, 28 September 2015	B5	1	2.01	17	98.5	86.5	2.5 dry	Pass			
5		Thursday, 1 October 2015	A5 (WSW)	1	1.9	14.5	95	86	2.0 dry	Pass			
6		Thursday, 1 October 2015	D5 (WSW)	1	1.96	15	104	75.5	5.0 dry	Fail	25		
7		Thursday, 1 October 2015	D6 (SSW)	1	1.97	15	97.5	84.5	2.5 dry	Pass			
8		Thursday, 1 October 2015	D4 (N)	1	2.08	16	108.5	80.5	3.5 dry	Pass*		*Passed by project manager (Sotir)	
9		Friday, 9 October 2015	E5 (N)	1	2.04	17.5	97	100.5	OMC	Pass			
10		Friday, 9 October 2015	D4 (NE)	1	2.09	15	100.5	99	OMC	Pass			
11		Monday, 12 October 2015	E4 (N)	1	2	17.5	106	77	5.0 dry	Fail	18		
12		Monday, 12 October 2015	F4 (N)	1	2.07	19	108	81.5	4.0 dry	Pass*		*Passed by project manager (Sotir)	
13		Monday, 12 October 2015	E6 (S)	1	2	21	105.5	87.5	3.0 dry	Pass			
14		Monday, 12 October 2015	F5 (N)	1	1.82	22.5	100	87	3.5 dry	Pass*		*Passed by project manager (Sotir)	
15		Tuesday, 13 October 2015	F5 (WSW)	1	2.12	13	101.5	87.5	2.0 dry	Pass			
16		Tuesday, 13 October 2015	F6 (SSE)	1	2.12	15	103.5	87.5	2.0 dry	Pass			
17		Thursday, 15 October 2015	F4 (NE)	1	2.13	21	106.5	100.5	OMC	Pass			
18	11	Thursday, 15 October 2015	E4 (NNE)	1	2.17	19	107.5	97	0.5 dry	Pass			
19		Thursday, 15 October 2015	E5 (N)	1	1.98	25.5	103.5	96.5	1.0 dry	Pass			
20		Thursday, 15 October 2015	C5 (NE)	2	1.93	20	102	87	3.0 dry	Pass			
21		Thursday, 15 October 2015	B6 (S)	2	1.9	23	101	88.5	3.0 dry	Pass			
22		Thursday, 15 October 2015	C6 (W)	2	1.89	16.5	99	85	3.0 dry	Pass			
23		Friday, 16 October 2015	C4	2	1.99	21	105	83	3.5 dry	Pass*		*Passed by project manager (Sotir)	
24		Friday, 16 October 2015	B4	2	1.98	21.5	104	83.5	3.5 dry	Pass*		*Passed by project manager (Sotir)	
25	6	Friday, 16 October 2015	D5	1	2	28	101.5	88	3.0 dry	Pass			
26		Tuesday, 20 October 2015	G4 (ENE)	1	1.95	20	99	99	OMC	Pass			
27		Tuesday, 20 October 2015	H4 (WSW)	1	1.97	19.5	100	89.5	2.0 dry	Pass			
28		Wednesday, 21 October 2015	B6 (Centre)	2	1.89	26	96	102.5	0.5 wet	Pass			
29		Wednesday, 21 October 2015	B5 (centre)	2	2.01	23.5	104.5	92	2.0 dry	Pass			
30		Thursday, 22 October 2015	C4	3	1.96	22	98	88.5	2.5 dry	Pass			
31		Thursday, 22 October 2015	B4 (West)	3	2.09	23	104	89	2.5 dry	Pass			
32		Friday, 23 October 2015	D4	2	2.18	11.5	99	98.5	OMC	Pass			
33		Friday, 23 October 2015	E4 (West)	2	1.97	25	103	93.5	1.5 dry	Pass			
34		Friday, 23 October 2015	E4 (East)	2	1.91	21.5	100.5	92.5	1.5 dry	Pass			
35		Friday, 23 October 2015	G4	2	2.06	19.5	102.5	97.5	0.5 dry	Pass			
36		Tuesday, 27 October 2015	B4 (NNW)	4	2	22	106.5	88.5	3.0 dry	Pass			
37		Tuesday, 27 October 2015	C4 (NW)	4	1.87	20	102	80.5	4.5 dry	Fail	40		
38		Tuesday, 27 October 2015	G4 (East)	4	2.05	23	102	101.5	0.5 wet	Pass			
39		Tuesday, 27 October 2015	A6 (S)	4	1.97	14.5	95	96	0.5 dry	Pass			

40	37	Wednesday, 28 October 2015	C4 (NW)	4	1.89	22	102.5	82.5	4.5 dry	Fail	42	
41		Wednesday, 28 October 2015	D5 (NW)	2	2.13	19.5	106.5	98	0.5 dry	Pass		
42	40	Thursday, 29 October 2015	C4 (W)	4	2	23	102	90	2.5 dry	Pass		
43		Thursday, 29 October 2015	D5 (NE)	2	1.75	25.5	91	94	1.5 dry	Fail	45	
44		Thursday, 29 October 2015	G6 (W)	2	1.86	23.5	98.5	90	2.5 dry	Pass		
45	43	Friday, 30 October 2015	D5 (NE)	2	1.85	21	98	88	3.0 dry	Pass		
46		Friday, 30 October 2015	E6 (S)	2	2.05	23.5	104.5	90	2.5 dry	Pass		
47		Friday, 30 October 2015	F6 (SSE)	2	2.02	23.5	104.5	90	2.5 dry	Pass		
48		Monday, 9 November 2015	A6	3	2	21.5	102.5	98.5	0.5 dry	Pass		
49		Wednesday, 18 November 2015	H4 (W)	4	2.05	15.5	102.5	86	2.5 dry	Pass		
50		Thursday, 19 November 2015	G6 (W)	1	1.8	25.5	98.5	88.5	3.0 dry	Pass		
51		Monday, 23 November 2015	G5	2	1.92	33	104.5	106.5	2.0 wet	Pass		
52		Tuesday, 24 November 2015	F6 (SSE)	3	1.82	15	92.5	88.5	2.0 dry	Fail	54	
53		Tuesday, 24 November 2015	G5 (NW)	3	2.11	16	102.5	79	4.0 dry	Fail	55	
54	52	Wednesday, 25 November 2015	F6	3	2.1	19	104	99	OMC	Pass		
55	53	Wednesday, 25 November 2015	G5	3	2.02	19.5	98.5	98	0.5 dry	Pass		
56		Wednesday, 25 November 2015	D6 (SSW)	3	1.88	26.5	98.5	99	OMC	Pass		
57		Thursday, 26 November 2015	G6 (SE)	3	2.16	18	105.5	87	2.5 dry	Pass		
58		Thursday, 26 November 2015	H5 (W)	2	2.08	24	102	90	2.5 dry	Pass		
59		Monday, 30 November 2015	A6 (N)	1	2.01	21.5	101	100	OMC	Pass		
60		Tuesday, 1 December 2015	A6 (N)	2	2.1	21	104	89.5	2.5 dry	Pass		
61		Tuesday, 1 December 2015	A5 (N)	4	1.97	17.5	98.5	88	2.5 dry	Pass		
62		Tuesday, 8 December 2015	A6 (N)	3	2.14	9	98	81	2.0 dry	Pass		
63		Wednesday, 9 December 2015	D5 (W)	3	2.07	21.5	106.5	89	2.5 dry	Pass		
64		Wednesday, 9 December 2015	C6 (S)	3	1.93	23	100	89.5	2.5 dry	Pass		
65		Wednesday, 9 December 2015	C5 (W)	3	1.85	20	96.5	89.5	2.5 dry	Pass		
66		Wednesday, 6 January 2016	B6 (SE)	3	1.84	26	95.5	100	OMC	Pass		
67		Wednesday, 6 January 2016	B5	3	1.83	25.5	100.5	85	4.5 dry	Fail	68	
68	67	Saturday, 7 January 2017	B5	3	1.89	28	98	99.5	OMC	Pass		
69		Monday, 23 May 2016	D6	1	1.88	19.2	92	100	OMC	Fail	72	
70		Monday, 23 May 2016	D6	1	1.86	24.4	98.5	91	2.5 Dry	Pass		
71		Tuesday, 24 May 2016	E6 (N)	1	1.94	23.8	102	89.5	2.5 dry	Pass		
72	69	Tuesday, 24 May 2016	D6 (S)	1	1.94	22.6	96	98.5	0.5 dry	Pass		
R73		Wednesday, 25 May 2016	D6	1	2.03	19.1	103.5	87.5	2.5 dry	Pass		
74		Wednesday, 25 May 2016	D6	2	1.8	19.5	99	81	4.5 Dry	Pass^		^Passed by project manager (Shaun)
75		Wednesday, 25 May 2016	F6	1	1.82	24.4	99	88.5	3.0 Dry	Pass		
76		Thursday, 21 July 2016	G4	5	2.01	24.7	101	110	2.0 Wet	Pass		
77		Thursday, 21 July 2016	H4	5	2.01	23.6	101.5	102.2	0.5 wet	Pass		
78		Thursday, 28 July 2016	G6	1	1.96	21.4	100.5	96	1.0 Dry	Pass		
79		Thursday, 28 July 2016	E6	1	1.98	20.4	103	92.5	1.5 Dry	Pass		
80		Friday, 29 July 2016	F6	1	1.98	22.3	100.5	96.5	1.0 Dry	Pass		
81		Friday, 29 July 2016	G6	2	1.95	24.2	99.5	100	OMC	Pass		
82		Friday, 29 July 2016	F6	2	1.95	20.6	99	103	0.5 Wet	Pass		
83		Friday, 29 July 2016	E6	2	1.99	20.4	102	101	OMC	Pass		
84		Friday, 29 July 2016	D6	1	2.02	20.3	102	100	OMC	Pass		
85		Friday, 29 July 2016	B6	1	2.02	21.4	103	100.5	OMC	Pass		

86		Saturday, 30 July 2016	G6	3	2.03	22.9	102.5	100	OMC	Pass		
87		Saturday, 30 July 2016	F6	3	2.06	21	106	90.5	2.0 Dry	Pass		
88		Saturday, 30 July 2016	E6	3	1.99	21	99.5	100.5	OMC	Pass		
89		Saturday, 30 July 2016	D6	2	1.98	24.3	101	101.5	0.5 Wet	Pass		
90		Saturday, 30 July 2016	C6	2	2.02	27.6	104	105.5	0.5 Wet	Pass		
91		Tuesday, 16 August 2016	C6	3	1.99	20.3	98.5	99.5	OMC	Pass		
92		Tuesday, 16 August 2016	D6	3	2.04	19.6	102.5	99	OMC	Pass		
93		Thursday, 25 August 2016	A5	1	1.9	23	98	99	OMC	Pass		
94		Thursday, 25 August 2016	A6	1	1.9	24.5	98	92.5	2.0 Dry	Pass		
95		Thursday, 25 August 2016	A6	2	1.84	26.8	98.5	97.5	0.5 Dry	Pass		
96		Thursday, 25 August 2016	A5	2	1.9	23.9	101	90.5	2.5 Dry	Pass		
97	95	Thursday, 25 August 2016	A6	2	1.97	24.5	100.5	100.5	OMC	Pass		
98		Friday, 26 August 2016	A6	3	1.92	22.1	99.5	99	0.5 Dry	Pass		
99		Friday, 26 August 2016	A5 North	3	1.9	24.1	95	98.5	0.5 Dry	Pass		
100		Friday, 26 August 2016	A5 South	1	1.89	23.9	97.5	109	2.0 Wet	Pass		
101		Friday, 26 August 2016	A5 North	1	1.97	21.8	103	90.5	2.0 Dry	Pass		
102		Friday, 26 August 2016	A5 South	1	1.9	20.6	97.5	98	0.5 Dry	Pass		
103		Friday, 26 August 2016	A6	4	1.91	25.6	95	99.5	OMC	Pass		
104		Friday, 26 August 2016	A5 North	4	1.99	16.4	102	88	2.0 Dry	Pass		
105		Monday, 29 August 2016	A5	2	1.93	24	100.5	92	2.0 Dry	Pass		
106		Monday, 29 August 2016	A4	2	1.9	22.2	101	80.5	5.0 Dry	Fail		^Passed by project manager (Shaun)
107		Wednesday, 31 August 2016	H6 West	1	1.88	21.5	101	87	3.0 Dry	Pass		
108		Wednesday, 31 August 2016	H6 East	1	1.9	19.4	104.5	79.5	5.0 Dry	Fail	111	
109		Thursday, 1 September 2016	H6 West	2	1.99	25.6	103.5	93.5	1.5 Dry	Pass		
110		Thursday, 1 September 2016	H6 East	2	1.9	24	98	97.5	0.5 Dry	Pass		
111	108	Thursday, 1 September 2016	H6 East	1	1.94	23.5	100	98	0.5 Dry	Pass		
112		Tuesday, 6 September 2016	H6 West	3	1.9	24.5	100.5	103.5	1.0 Wet	Pass		
113		Tuesday, 6 September 2016	H6 East	3	1.96	15.6	101	110	1.5 Wet	Pass		
114		Wednesday, 7 September 2016	G6 West	2	1.96	16.3	98	85	2.5 Dry	Pass		
115		Wednesday, 7 September 2016	G6 East	2	1.94	22.7	103	89.5	2.5 Dry	Pass		
116		Wednesday, 7 September 2016	H6	4	1.96	17.8	101.5	87	2.5 Dry	Pass		
117		Tuesday, 27 September 2016	G5 North	2	1.87	25.6	99.5	89.5	3.0 Dry	Fail	X	Area excavated and reworked
118		Tuesday, 27 September 2016	F6 South	2	1.9	22.6	105.5	81	5.0 Dry	Fail	X	Area excavated and reworked
119		Thursday, 6 October 2016	F6 South	1	2.02	18.9	104.5	87.5	2.5 Dry	Pass		
120		Thursday, 6 October 2016	F5 North	1	1.98	19	100.5	88	2.5 Dry	Pass		
121		Thursday, 6 October 2016	G5 North	1	1.97	17.3	100.5	88	2.5 Dry	Pass		
122		Thursday, 6 October 2016	F6 South	2	1.98	22.6	101.5	90	2.5 Dry	Pass		
123		Thursday, 6 October 2016	F5 North	2	1.96	23.2	104.5	87	3.5 Dry	Fail	129	
124		Thursday, 6 October 2016	G5 North	2	1.93	20.1	103.5	85	3.5 Dry	Fail	128	
125		Friday, 7 October 2016	F6 South	3	1.96	18.9	105.5	79.5	4.5 Dry	Fail	130	
126		Friday, 7 October 2016	F5 North	3	1.96	20.4	104	88	2.5 Dry	Pass		
127		Friday, 7 October 2016	G5 North	3	1.98	19.7	102	87	3.0 Dry	Pass		
128	124	Tuesday, 18 October 2016	G5	2	1.97	21.5	99.5	99	OMC	Pass		
129	123	Tuesday, 18 October 2016	F5-North	2	1.99	20.9	99	99	OMC	Pass		
130	125	Tuesday, 18 October 2016	F6-South	3	1.99	21	102.5	88.5	2.5 Dry	Pass		
131		Tuesday, 18 October 2016	F5-North	3	2.02	19.2	104	87.5	2.5 Dry	Pass		

132	Tuesday, 18 October 2016	G5	3	1.99	20.8	104	93.5	1.5 Dry	Pass	
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Note:


^ As these results are either on a verge or batter and not part of an actual lot. The project manager passed these tests on the basis that they are well above compaction and only lacking in moisture.
* Due to some reconditioning being done in the effected area, the project manager passed these tests as the moisture variation was only slightly out. They were confident that that was sufficient remediation.

Appendix A - Laboratory Results

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 28/09/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: Submitted by Client
Source: Imported
Material:

Sample Data

Sample ID	ABTM15S-03507	ABTM15S-03508
Field Sample ID	1	2
Date Tested	25/09/2015	25/09/2015
Time Tested	14:40	14:55
Location	Stage 3	Stage 3
	Grid B4	Grid B5
	Layer 1	Layer 1

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	28.0	23.0
Field Wet Density (t/m ³)	1.90	1.93
Field Dry Density (t/m ³)	1.48	1.57
Peak Converted Wet Density* (t/m ³)	1.98	1.99
Optimum Moisture Content (%)	31.0	25.5
Compactive Effort	Standard	Standard
Moisture Ratio (%)	90.5	90.0
Moisture Variation (%)	2.5 dry	2.5 dry
Hilf Density Ratio (%)	96.0	96.5


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**


 Accredited for compliance with ISO/IEC 17025.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 29/09/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: Submitted by Client
Source: Imported
Material:

Sample Data

Sample ID	ABTM15S-03521	ABTM15S-03522
Field Sample ID	3	4
Date Tested	28/09/2015	28/09/2015
Time Tested	15:20	15:36
Location	Stage 3	Stage 3
	Grid B6	Grid B5
	Layer 1	Layer 1
		(South)

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	16.5	17.0
Field Wet Density (t/m ³)	1.99	2.01
Field Dry Density (t/m ³)	1.71	1.71
Peak Converted Wet Density* (t/m ³)	2.03	2.03
Optimum Moisture Content (%)	19.0	20.0
Compactive Effort	Standard	Standard
Moisture Ratio (%)	86.5	86.5
Moisture Variation (%)	2.5 dry	2.5 dry
Hilf Density Ratio (%)	98.0	98.5


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
G. Samaradiwakara
 Approved Signatory: G. Samaradiwakara
 (Associate Engineering Technician)
 NATA Accredited Laboratory Number: 431
 Date of Issue: 5/10/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material:

Sample Data

Sample ID	ABTM15S-03554	ABTM15S-03555	ABTM15S-03556	ABTM15S-03557
Field Sample ID	5	6	7	8
Client Sample ID	A5 (WSW)	D5 (WSW)	D6 (SSW)	D4 (N)
Date Tested	1/10/2015	1/10/2015	1/10/2015	1/10/2015
Time Tested	14:24	14:33	14:43	14:59
Location	A5 (WSW)	D5 (WSW)	D6 (SSW)	D4 (N)

Field and Laboratory Data

Depth of Test (mm)	250	250	250	250
Depth of Layer (mm)	275	275	275	275
Oversize Wet (%)	8	2	1	7
Field Moisture Content (%)	14.5	15.0	15.0	16.0
Field Wet Density (t/m ³)	1.90	1.96	1.97	2.08
Field Dry Density (t/m ³)	1.65	1.70	1.71	1.80
Peak Converted Wet Density* (t/m ³)	2.00	1.88	2.02	1.92
Optimum Moisture Content (%)	17.0	20.0	17.5	19.5
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Ratio (%)	86.0	75.5	84.5	80.5
Moisture Variation (%)	2.0 dry	5.0 dry	2.5 dry	3.5 dry
Hilf Density Ratio (%)	95.0	104.0	97.5	108.5


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shawn Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 12/10/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: Submitted by Client
Source:
Material:

Sample Data

Sample ID	ABTM15S-03625	ABTM15S-03626
Field Sample ID	9	10
Date Tested	9/10/2015	9/10/2015
Time Tested	14:20	14:30
Location	Grid E5 (North)	Grid D4 (North-East)

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	17.5	15.0
Field Wet Density (t/m ³)	2.04	2.09
Field Dry Density (t/m ³)	1.74	1.82
Peak Converted Wet Density* (t/m ³)	2.11	2.08
Optimum Moisture Content (%)	17.5	15.0
Compactive Effort	Standard	Standard
Moisture Ratio (%)	100.5	99.0
Moisture Variation (%)	0.0	0.0
Hilf Density Ratio (%)	97.0	100.5


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 14/10/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-03636	ABTM15S-03637	ABTM15S-03638	ABTM15S-03639
Field Sample ID	11	12	13	14
Date Tested	12/10/2015	12/10/2015	12/10/2015	12/10/2015
Time Tested	14:03	14:23	14:41	15:01
Location	Grid E4	Grid F4	Grid E6	Grid F5
	(North)	(North)	(South)	(North)

Field and Laboratory Data

Depth of Test (mm)	275	275	275	275
Depth of Layer (mm)	300	300	300	300
AS Sieve Size (mm)	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0
Field Moisture Content (%)	17.5	19.0	21.0	22.5
Field Wet Density (t/m ³)	2.00	2.07	2.00	1.82
Field Dry Density (t/m ³)	1.70	1.74	1.65	1.49
Peak Converted Wet Density* (t/m ³)	1.88	1.92	1.89	1.82
Optimum Moisture Content (%)	22.5	23.5	24.0	25.5
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Ratio (%)	77.0	81.5	87.5	87.0
Moisture Variation (%)	5.0 dry	4.0 dry	3.0 dry	3.5 dry
Hilf Density Ratio (%)	106.0	108.0	105.5	100.0


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**


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Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 14/10/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-03645	ABTM15S-03646
Field Sample ID	15	16
Date Tested	13/10/2015	13/10/2015
Time Tested	14:16	14:31
Location	Stage 3	Stage 3
	Grid F5	Grid F6
	(WSW)	(SSE)

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	13.0	15.0
Field Wet Density (t/m ³)	2.12	2.12
Field Dry Density (t/m ³)	1.88	1.84
Peak Converted Wet Density* (t/m ³)	2.09	2.05
Optimum Moisture Content (%)	15.0	17.5
Compactive Effort	Standard	Standard
Moisture Ratio (%)	87.5	87.5
Moisture Variation (%)	2.0 dry	2.0 dry
Hilf Density Ratio (%)	101.5	103.5


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



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 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 16/10/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-03693	ABTM15S-03694	ABTM15S-03695	ABTM15S-03696	ABTM15S-03697	ABTM15S-03698
Field Sample ID	17	18	19	20	21	22
Date Tested	15/10/2015	15/10/2015	15/10/2015	15/10/2015	15/10/2015	15/10/2015
Time Tested	12:53	13:24	13:36	14:02	14:25	14:44
Location	Stage 3	Stage 3	Stage 3	Stage 3	Stage 3	Stage 3
	Grid F4	Grid E4	Grid E5	Grid O5	Grid B6	Grid C6
	(NE)	(NNE)	(N)	(NE)	(S)	(W)

Field and Laboratory Data

Depth of Test (mm)	275	275	275	275	275	275
Depth of Layer (mm)	300	300	300	300	300	300
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	6	10	2	3	2	3
Field Moisture Content (%)	21.0	19.0	25.5	20.0	23.0	16.5
Field Wet Density (t/m³)	2.13	2.17	1.98	1.93	1.90	1.89
Field Dry Density (t/m³)	1.76	1.83	1.58	1.61	1.55	1.62
Peak Converted Wet Density* (t/m³)	2.00	2.02	1.92	1.89	1.89	1.91
Optimum Moisture Content (%)	20.5	19.5	26.5	23.0	26.0	19.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	100.5	97.0	96.5	87.0	88.5	85.0
Moisture Variation (%)	0.0	0.5 dry	1.0 dry	3.0 dry	3.0 dry	3.0 dry
Hilf Density Ratio (%)	106.5	107.5	103.5	102.0	101.0	99.0


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.
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Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 19/10/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-03730	ABTM15S-03731	ABTM15S-03732
Field Sample ID	23	24	25
Date Tested	15/10/2015	15/10/2015	15/10/2015
Time Tested	14:35	14:55	15:00
Location	Grid C4	Grid B4	Grid D5
	Layer 2	Layer 2	Layer 1
			Retest of No 6

Field and Laboratory Data

Depth of Test (mm)	275	275	275
Depth of Layer (mm)	300	300	300
AS Sieve Size (mm)	19.0	19.0	19.0
Oversize Wet (%)	0	0	0
Field Moisture Content (%)	17.5	18.0	24.5
Field Wet Density (t/m ³)	1.99	1.98	2.00
Field Dry Density (t/m ³)	1.70	1.68	1.60
Peak Converted Wet Density* (t/m ³)	1.89	1.91	1.97
Optimum Moisture Content (%)	21.0	21.5	28.0
Compactive Effort	Standard	Standard	Standard
Moisture Ratio (%)	83.0	83.5	88.0
Moisture Variation (%)	3.5 dry	3.5 dry	3.0 dry
Hilf Density Ratio (%)	105.0	104.0	101.5


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**


 Accredited for compliance with ISO/IEC 17025.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 21/10/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-03775	ABTM15S-03776
Field Sample ID	26	27
Date Tested	20/10/2015	20/10/2015
Time Tested	14:20	14:30
Location	Stage 3	Stage 3
	Grid G4	Grid H4
	Layer 1	Layer 1

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	23.0	19.5
Field Wet Density (t/m ³)	1.95	1.97
Field Dry Density (t/m ³)	1.59	1.64
Peak Converted Wet Density* (t/m ³)	1.97	1.97
Optimum Moisture Content (%)	23.0	22.0
Compactive Effort	Standard	Standard
Moisture Ratio (%)	99.0	89.5
Moisture Variation (%)	0.0	2.0 dry
Hilf Density Ratio (%)	99.0	100.0

legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: SPIIRE/AMEX CORPORATION
Project No.: INFOABTM00385AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1
Lot No.: **TRN:**



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Ketankumar Patel
 Approved Signatory: Ketankumar Patel
 (Senior Geotechnician)
 NATA Accredited Laboratory Number: 431
 Date of Issue: 22/10/2015

Sample Details

Location: Little Green Estate, Tarneit, Vic
Client Request ID:
Specification Requirements:
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material:

Sample Data

Sample ID	ABTM15S-03786	ABTM15S-03787			
Field Sample ID	28	29			
Client Sample ID	B6 (Centre)	B5 (Centre)			
Date Tested	21/10/2015	21/10/2015			
Time Tested	02:40	02:50			
Location	B6 (Centre)	B5 (Centre)			
	Layer 2	Layer 2			

Field and Laboratory Data

Depth of Test (mm)	275	275			
Depth of Layer (mm)	300	300			
Oversize Wet (%)	2				
Field Moisture Content (%)	26.0	23.5			
Field Wet Density (t/m ³)	1.89	2.01			
Field Dry Density (t/m ³)	1.50	1.63			
Peak Converted Wet Density* (t/m ³)	1.97	1.92			
Optimum Moisture Content (%)	25.5	25.5			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	102.5	92.0			
Moisture Variation (%)	0.5 wet	2.0 dry			
Hilf Density Ratio (%)	96.0	104.5			


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



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Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 23/10/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-03797	ABTM15S-03798
Field Sample ID	30	31
Date Tested	22/10/2015	22/10/2015
Time Tested	11:00	11:15
Location	Stage 3	Stage 3
	Grid C4	Grid B4 (West)
	Layer 3	Layer 3

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	22.0	23.0
Field Wet Density (t/m ³)	1.96	2.09
Field Dry Density (t/m ³)	1.60	1.70
Peak Converted Wet Density* (t/m ³)	2.00	2.01
Optimum Moisture Content (%)	25.0	25.5
Compactive Effort	Standard	Standard
Moisture Ratio (%)	88.5	89.0
Moisture Variation (%)	2.5 dry	2.5 dry
Hilf Density Ratio (%)	98.0	104.0


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: SPIIRE/AMEX CORPORATION
Project No.: INFOABTM00385AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1
Lot No.: **TRN:**



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 Approved Signatory: Ketankumar Patel
 (Senior Geotechnician)
 NATA Accredited Laboratory Number:431
 Date of Issue: 26/10/2015

Sample Details

Location: Little Green Estate, Tarneit, Vic
Client Request ID:
Specification Requirements:
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material:

Sample Data

Sample ID	ABTM15S-03810	ABTM15S-03811	ABTM15S-03812	ABTM15S-03813
Field Sample ID	32	33	34	35
Client Sample ID	D4	E4	E4	G4
Date Tested	23/10/2015	23/10/2015	23/10/2015	23/10/2015
Time Tested	02:00	02:15	02:25	02:40
Location	D4	E4	E4	G4
	Layer 2	Layer 2	Layer 2	Layer 2

Field and Laboratory Data

Depth of Test (mm)	275	275	275	275
Depth of Layer (mm)	300	300	300	300
Oversize Wet (%)	5	5	6	3
Field Moisture Content (%)	11.5	25.0	21.5	19.5
Field Wet Density (t/m ³)	2.18	1.97	1.91	2.06
Field Dry Density (t/m ³)	1.95	1.58	1.57	1.72
Peak Converted Wet Density* (t/m ³)	2.20	1.91	1.90	2.01
Optimum Moisture Content (%)	11.5	26.5	23.0	20.0
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Ratio (%)	98.5	93.5	92.5	97.5
Moisture Variation (%)	0.0	1.5 dry	1.5 dry	0.5 dry
Hilf Density Ratio (%)	99.0	103.0	100.5	102.5

legend * adjusted for oversize material

Comments


HILF Density Ratio Report

Report No: HDR:ABTM15W01072

 Preliminary Report Issued - Issue No.:1 **Issue No: 2**
This report replaces all previous issues of report no 'HDR:ABTM15W01072'.

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



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G. Samaradiwakara
 Approved Signatory: G. Samaradiwakara
 (Associate Engineering Technician)
 NATA Accredited Laboratory Number:431
 Date of Issue: 28/10/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-03849	ABTM15S-03850	ABTM15S-03851	ABTM15S-03852
Field Sample ID	36	37	38	39
Date Tested	27/10/2015	27/10/2015	27/10/2015	27/10/2015
Time Tested	12:40	12:58	13:15	14:25
Location	Stage 3	Stage 3	Stage 3	Stage 3
	Grid B4 (NNW)	Grid C4 (NW)	Grid G4 (E)	Grid A6 (S)
	Layer 4	Layer 4	Layer 3	Layer 2
Soil Description	General Fill	General Fill	General Fill	General Fill

Field and Laboratory Data

Depth of Test (mm)	275	275	275	275
Depth of Layer (mm)	300	300	300	300
AS Sieve Size (mm)	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0
Field Moisture Content (%)	22.0	20.0	23.0	14.5
Field Wet Density (t/m ³)	2.00	1.87	2.05	1.97
Field Dry Density (t/m ³)	1.64	1.56	1.67	1.72
Peak Converted Wet Density* (t/m ³)	1.89	1.83	2.01	2.07
Optimum Moisture Content (%)	25.0	24.5	23.0	15.0
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Ratio (%)	88.5	80.5	101.5	96.0
Moisture Variation (%)	3.0 dry	4.5 dry	0.5 wet	0.5 dry
Hilf Density Ratio (%)	106.5	102.0	102.0	95.0


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



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 Approved Signatory: Ketankumar Patel
 (Senior Geotechnician)
 NATA Accredited Laboratory Number:431
 Date of Issue: 29/10/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements:
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material:

Sample Data

Sample ID	ABTM15S-03868	ABTM15S-03869			
Field Sample ID	40	41			
Client Sample ID	C4 (NW)	D5 (NW)			
Date Tested	28/10/2015	28/10/2015			
Time Tested	10:40	02:10			
Location	C4 (NW)	D5 (NW)			
	Layer 4	Layer 2			

Field and Laboratory Data

Depth of Test (mm)	275	275			
Depth of Layer (mm)	300	300			
Oversize Wet (%)		2			
Field Moisture Content (%)	22.0	19.5			
Field Wet Density (t/m ³)	1.89	2.13			
Field Dry Density (t/m ³)	1.55	1.78			
Peak Converted Wet Density* (t/m ³)	1.84	2.00			
Optimum Moisture Content (%)	26.5	20.0			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	82.5	98.0			
Moisture Variation (%)	4.5 dry	0.5 dry			
Hilf Density Ratio (%)	102.5	106.5			


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



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 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
 Approved Signatory: Ketankumar Patel
 (Senior Geotechnician)
 NATA Accredited Laboratory Number:431
 Date of Issue: 30/10/2015

Sample Details
Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data					
Sample ID	ABTM15S-03872	ABTM15S-03873	ABTM15S-03874		
Field Sample ID	42	43	44		
Date Tested	29/10/2015	29/10/2015	29/10/2015		
Time Tested	14:10	14:45	15:10		
Location	Stage 3	Stage 3	Stage 3		
	Grid C4 (w)	Grid D5 (NE)	Grid G6 (W)		
	Layer 4	Layer 2	Layer 2		
	Retest of No 40				
Soil Description	General Fill	General Fill	General Fill		

Field and Laboratory Data					
Depth of Test (mm)	275	275	275		
Depth of Layer (mm)	300	300	300		
AS Sieve Size (mm)	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0		
Field Moisture Content (%)	23.0	25.5	23.5		
Field Wet Density (t/m³)	2.00	1.75	1.86		
Field Dry Density (t/m³)	1.63	1.40	1.50		
Peak Converted Wet Density* (t/m³)	1.96	1.92	1.88		
Optimum Moisture Content (%)	25.5	27.0	26.0		
Compactive Effort	Standard	Standard	Standard		
Moisture Ratio (%)	90.0	94.0	90.0		
Moisture Variation (%)	2.5 dry	1.5 dry	2.5 dry		
Hilf Density Ratio (%)	102.0	91.0	98.5		


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



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Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 6/11/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material:

Sample Data

Sample ID	ABTM15S-03920	ABTM15S-03921	ABTM15S-03922
Field Sample ID	46	47	45
Date Tested	30/10/2015	30/10/2015	30/10/2015
Time Tested	12:15	12:35	
Location	E6 (E)	F6 (E)	Retest of #43
	Layer 2	Layer 2	Layer 2

Field and Laboratory Data

Depth of Test (mm)	275	275	275
Depth of Layer (mm)	300	300	300
AS Sieve Size (mm)	19.0	19.0	19.0
Oversize Wet (%)	0	0	0
Field Moisture Content (%)	23.5	23.5	21.0
Field Wet Density (t/m ³)	2.05	2.02	1.85
Field Dry Density (t/m ³)	1.65	1.64	1.53
Peak Converted Wet Density* (t/m ³)	1.95	1.93	1.89
Optimum Moisture Content (%)	26.5	26.0	24.0
Compactive Effort	Standard	Standard	Standard
Moisture Ratio (%)	90.0	90.0	88.0
Moisture Variation (%)	2.5 dry	2.5 dry	3.0 dry
Hilf Density Ratio (%)	104.5	104.5	98.0


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



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Ketankumar Patel
 Approved Signatory: Ketankumar Patel
 (Senior Geotechnician)
 NATA Accredited Laboratory Number: 431
 Date of Issue: 10/11/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements:
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material:

Sample Data

Sample ID	ABTM15S-03985				
Field Sample ID	48				
Client Sample ID	Layer 3				
Date Tested	9/11/2015				
Time Tested	11:30				
Location	Layer 3				
	Stage 3				

Field and Laboratory Data

Depth of Test (mm)	275				
Depth of Layer (mm)	300				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Moisture Content (%)	21.5				
Field Wet Density (t/m ³)	2.00				
Field Dry Density (t/m ³)	1.65				
Peak Converted Wet Density* (t/m ³)	1.95				
Optimum Moisture Content (%)	22.0				
Compactive Effort	Standard				
Moisture Ratio (%)	98.5				
Moisture Variation (%)	0.5 dry				
Hilf Density Ratio (%)	102.5				


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



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Shawn Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number: 431
 Date of Issue: 19/11/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04188
Field Sample ID	49
Date Tested	18/11/2015
Time Tested	12:01
Location	Grid H4 (W)
	Layer 4

Field and Laboratory Data


Depth of Test (mm)	275
Depth of Layer (mm)	300
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	15.5
Field Wet Density (t/m ³)	2.05
Field Dry Density (t/m ³)	1.77
Peak Converted Wet Density* (t/m ³)	2.00
Optimum Moisture Content (%)	18.0
Compactive Effort	Standard
Moisture Ratio (%)	86.0
Moisture Variation (%)	2.5 dry
Hilf Density Ratio (%)	102.5

legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) P.O. Box 40 Kew VIC 3101
Principal:	Spiire
Project No.:	INFOABTM00489AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.:	TRN:



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Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number: 431
 Date of Issue: 20/11/2015

Sample Details

Location:	Little Green Estate, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	
Material:	

Sample Data

Sample ID	ABTM15S-04234
Field Sample ID	50
Date Tested	19/11/2015
Time Tested	11:20
Location	Stage 3
	Grid G6 (S)
	Layer 1

Field and Laboratory Data

Depth of Test (mm)	275
Depth of Layer (mm)	300
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	25.5
Field Wet Density (t/m³)	1.80
Field Dry Density (t/m³)	1.43
Peak Converted Wet Density* (t/m³)	1.83
Optimum Moisture Content (%)	29.0
Compactive Effort	Standard
Moisture Ratio (%)	88.5
Moisture Variation (%)	3.0 dry
Hilf Density Ratio (%)	98.5


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



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 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number: 431
 Date of Issue: 24/11/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04305
Field Sample ID	51
Date Tested	23/11/2015
Time Tested	12:30
Location	Stage 3
	Grid G5
	Layer 2

Field and Laboratory Data

Depth of Test (mm)	275
Depth of Layer (mm)	300
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	33.0
Field Wet Density (t/m ³)	1.92
Field Dry Density (t/m ³)	1.44
Peak Converted Wet Density* (t/m ³)	1.84
Optimum Moisture Content (%)	31.0
Compactive Effort	Standard
Moisture Ratio (%)	106.5
Moisture Variation (%)	2.0 wet
Hilf Density Ratio (%)	104.5



legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**


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 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 25/11/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04354	ABTM15S-04355
Field Sample ID	52	53
Date Tested	24/11/2015	24/11/2015
Time Tested	14:00	14:30
Location	Stage 3	Stage 3
	Grid F6	Grid G5 (NW)
	Layer 3	Layer 3

Field and Laboratory Data

Depth of Test (mm)	225	275
Depth of Layer (mm)	250	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	15.0	16.0
Field Wet Density (t/m ³)	1.82	2.11
Field Dry Density (t/m ³)	1.58	1.82
Peak Converted Wet Density* (t/m ³)	1.96	2.06
Optimum Moisture Content (%)	17.0	20.5
Compactive Effort	Standard	Standard
Moisture Ratio (%)	88.5	79.0
Moisture Variation (%)	2.0 dry	4.0 dry
Hilf Density Ratio (%)	92.5	102.5


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 26/11/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04380	ABTM15S-04381	ABTM15S-04382			
Field Sample ID	54	55	56			
Date Tested	25/11/2015	25/11/2015	25/11/2015			
Location	Stage 3	Stage 3	Stage 3			
	Grid F6	Grid G5	Grid D6			
	Layer 3	Layer 3	Layer 3			
	Retest of No 52	Retest of No 53				

Field and Laboratory Data

Depth of Test (mm)	275	275	275			
Depth of Layer (mm)	300	300	300			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	19.0	19.5	26.5			
Field Wet Density (t/m³)	2.10	2.02	1.88			
Field Dry Density (t/m³)	1.76	1.69	1.49			
Peak Converted Wet Density* (t/m³)	2.01	2.06	1.91			
Optimum Moisture Content (%)	19.5	20.0	27.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	99.0	98.0	99.0			
Moisture Variation (%)	0.0	0.5 dry	0.0			
Hilf Density Ratio (%)	104.0	98.5	98.5			


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number: 431
 Date of Issue: 27/11/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04412	ABTM15S-04413			
Field Sample ID	57	58			
Date Tested	26/11/2015	26/11/2015			
Time Tested	13:00	13:30			
Location	Stage 3	Stage 3			
	Grid G6 (SE)	Grid H5 (W)			
	Layer 3	Layer 2			

Field and Laboratory Data

Depth of Test (mm)	275	275			
Depth of Layer (mm)	300	300			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Moisture Content (%)	18.0	24.0			
Field Wet Density (t/m ³)	2.16	2.08			
Field Dry Density (t/m ³)	1.84	1.68			
Peak Converted Wet Density* (t/m ³)	2.05	2.04			
Optimum Moisture Content (%)	20.5	26.5			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	87.0	90.0			
Moisture Variation (%)	2.5 dry	2.5 dry			
Hilf Density Ratio (%)	105.5	102.0			


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number: 431
 Date of Issue: 1/12/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04493				
Field Sample ID	59				
Date Tested	30/11/2015				
Time Tested	15:00				
Location	Stage 3				
	Grid A6				
	Middle				
	Layer 1				

Field and Laboratory Data

Depth of Test (mm)	275				
Depth of Layer (mm)	300				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Moisture Content (%)	21.5				
Field Wet Density (t/m ³)	2.01				
Field Dry Density (t/m ³)	1.65				
Peak Converted Wet Density* (t/m ³)	1.99				
Optimum Moisture Content (%)	21.5				
Compactive Effort	Standard				
Moisture Ratio (%)	100.0				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	101.0				


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 2/12/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04513	ABTM15S-04514			
Field Sample ID	60	61			
Date Tested	1/12/2015	1/12/2015			
Time Tested	14:00	14:10			
Location	Stage 3	Stage 3			
	Grid A6 (N)	Grid A5 (N)			
	Layer 2	Layer 4			

Field and Laboratory Data

Depth of Test (mm)	275	275			
Depth of Layer (mm)	300	300			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Moisture Content (%)	21.0	17.5			
Field Wet Density (t/m ³)	2.10	1.97			
Field Dry Density (t/m ³)	1.73	1.68			
Peak Converted Wet Density* (t/m ³)	2.01	2.00			
Optimum Moisture Content (%)	23.5	20.0			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	89.5	88.0			
Moisture Variation (%)	2.5 dry	2.5 dry			
Hilf Density Ratio (%)	104.0	98.5			


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.
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Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 9/12/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04679				
Field Sample ID	62				
Date Tested	8/12/2015				
Time Tested	14:30				
Location	Stage 3				
	Grid A6 (N)				
	Layer 3				

Field and Laboratory Data

Depth of Test (mm)	175				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Moisture Content (%)	9.0				
Field Wet Density (t/m ³)	2.14				
Field Dry Density (t/m ³)	1.96				
Peak Converted Wet Density* (t/m ³)	2.18				
Optimum Moisture Content (%)	11.0				
Compactive Effort	Standard				
Moisture Ratio (%)	81.0				
Moisture Variation (%)	2.0 dry				
Hilf Density Ratio (%)	98.0				


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 P.O. Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.
 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 11/12/2015

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04695	ABTM15S-04696	ABTM15S-04697			
Field Sample ID	63	64	65			
Date Tested	9/12/2015	9/12/2015	9/12/2015			
Time Tested	14:45	14:50	14:55			
Location	Layer 3	Layer 3	Layer 3			
	Stage 3	Stage 3	Stage 3			
	Grid D5 (W)	Grid C6 (S)	Grid C5 (W)			

Field and Laboratory Data

Depth of Test (mm)	225	225	225			
Depth of Layer (mm)	250	250	250			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	21.5	23.0	20.0			
Field Wet Density (t/m³)	2.07	1.93	1.85			
Field Dry Density (t/m³)	1.70	1.56	1.54			
Peak Converted Wet Density* (t/m³)	1.95	1.93	1.92			
Optimum Moisture Content (%)	24.0	26.0	22.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	89.0	89.5	89.5			
Moisture Variation (%)	2.5 dry	2.5 dry	2.5 dry			
Hilf Density Ratio (%)	106.5	100.0	96.5			


legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 PO Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**



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 The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
Shaun Price
 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number:431
 Date of Issue: 7/01/2016

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM16S-00025	ABTM16S-00026
Field Sample ID	66	67
Date Tested	6/01/2016	6/01/2016
Time Tested	15:00	15:20
Location	Stage 3	Stage 3
	Grid B6 (SE)	Grid B5
	Layer 3	Layer 3

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	26.0	25.5
Field Wet Density (t/m ³)	1.84	1.83
Field Dry Density (t/m ³)	1.46	1.46
Peak Converted Wet Density* (t/m ³)	1.92	1.82
Optimum Moisture Content (%)	26.0	30.0
Compactive Effort	Standard	Standard
Moisture Ratio (%)	100.0	85.0
Moisture Variation (%)	0.0	4.5 dry
Hilf Density Ratio (%)	95.5	100.5



legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
 PO Box 40
 Kew VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: **TRN:**


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

 Approved Signatory: Shaun Price
 (Laboratory Manager)
 NATA Accredited Laboratory Number: 431
 Date of Issue: 8/01/2016

Sample Details

Location: Little Green Estate, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM16S-00043				
Field Sample ID	68				
Date Tested	7/01/2016				
Time Tested	11:15				
Location	Stage 3				
	Grid B5				
	Layer 3				
	Retest of No 67				

Field and Laboratory Data

Depth of Test (mm)	275				
Depth of Layer (mm)	300				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Moisture Content (%)	28.0				
Field Wet Density (t/m ³)	1.89				
Field Dry Density (t/m ³)	1.47				
Peak Converted Wet Density* (t/m ³)	1.92				
Optimum Moisture Content (%)	28.0				
Compactive Effort	Standard				
Moisture Ratio (%)	99.5				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	98.0				

legend * adjusted for oversize material

Comments

Report No: HDR:ABTM16W00770

Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

K. B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 24/05/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-02617	ABTM16S-02618
Field Sample ID	69	70
Date Tested	23/05/2016	23/05/2016
Time Tested	15:15	15:30
Location	Grid D6	Grid D6
	Back of slots	Reed reserve

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	
Field Moisture Content (%)	19.2	24.4
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.88	1.86
Field Dry Density (t/m ³)	1.57	1.50
Peak Converted Wet Density* (t/m ³)	2.04	1.89
Optimum Moisture Content (%)	19.5	27.0
Compactive Effort	Standard	Standard
Moisture Ratio (%)	100.0	91.0
Moisture Variation (%)	0.0	2.5 dry
Hilf Density Ratio (%)	92.0	98.5

legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

K. B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number: 431
Date of Issue: 25/05/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-02626	ABTM16S-02627
Field Sample ID	71	72
Client Sample ID	71	72
Date Tested	24/05/2016	24/05/2016
Time Tested	15:20	15:40
Location	grid E6	grid D6
	north	south
	road reserve	back of lots
		retest of 69

Field and Laboratory Data

Depth of Test (mm)	175	175
Depth of Layer (mm)	200	200
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	
Field Moisture Content (%)	23.8	22.6
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.94	1.94
Field Dry Density (t/m ³)	1.57	1.58
Peak Converted Wet Density* (t/m ³)	1.91	2.02
Optimum Moisture Content (%)	26.5	23.0
Compactive Effort	Standard	Standard
Moisture Ratio (%)	89.5	98.5
Moisture Variation (%)	2.5 dry	0.5 dry
Hilf Density Ratio (%)	102.0	96.0

legend * adjusted for oversize material

Comments

Report No: HDR:ABTM16W00793

Issue No: 2

This report replaces all previous issues of report no 'HDR:ABTM16W00793'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:

Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

K. B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 31/05/2016



Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 98% of Standard Compaction, +-3% OMC (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source:

Material: General Fill

Sample Data

Sample ID	ABTM16S-02715		
Field Sample ID	R73		
Date Tested	25/05/2016		
Time Tested	08:25		
Location	Road		
	Layer 1		
	Grid D6		

Field and Laboratory Data

Depth of Test (mm)	275		
Depth of Layer (mm)	300		
AS Sieve Size (mm)	19.0		
Oversize Wet (%)	0		
Field Moisture Content (%)	19.1		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	2.03		
Field Dry Density (t/m³)	1.70		
Peak Converted Wet Density* (t/m³)	1.96		
Optimum Moisture Content (%)	21.5		
Compactive Effort	Standard		
Moisture Ratio (%)	87.5		
Moisture Variation (%)	2.5 dry		
Hilf Density Ratio (%)	103.5		

legend * adjusted for oversize material

Comments

Report No: HDR:ABTM16W00794

Issue No: 2

This report replaces all previous issues of report no 'HDR:ABTM16W00794'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

K. B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 31/05/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-02716	ABTM16S-02717
Field Sample ID	74	75
Client Sample ID	74	75
Date Tested	25/05/2016	25/05/2016
Location	Layer 2	Layer 1
	Grid D6	Grid F6

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	19.5	24.4
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.80	1.82
Field Dry Density (t/m ³)	1.50	1.46
Peak Converted Wet Density* (t/m ³)	1.82	1.84
Optimum Moisture Content (%)	24.0	27.5
Compactive Effort	Standard	Standard
Moisture Ratio (%)	81.0	88.5
Moisture Variation (%)	4.5 dry	3.0 dry
Hilf Density Ratio (%)	99.0	99.0

legend * adjusted for oversize material

Comments

Report No: HDR:ABTM16W01031

Issue No: 2

This report replaces all previous issues of report no 'HDR:ABTM16W01031'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

K. B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 27/07/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-03508	ABTM16S-03509
Field Sample ID	76	77
Date Tested	21/07/2016	21/07/2016
Location	Grid G4	Grid H4
	Layer 5	Layer 5

Field and Laboratory Data

Depth of Test (mm)	175	175
Depth of Layer (mm)	200	200
AS Sieve Size (mm)	19.0	19.0
Field Moisture Content (%)	24.7	23.6
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	2.01	2.01
Field Dry Density (t/m ³)	1.61	1.62
Peak Converted Wet Density* (t/m ³)	1.99	1.98
Optimum Moisture Content (%)	22.5	23.0
Compactive Effort	Standard	Standard
Moisture Ratio (%)	110.0	102.0
Moisture Variation (%)	2.0 wet	0.5 wet
Hilf Density Ratio (%)	101.0	101.5

legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:

Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.



K. B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 29/07/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-03593	ABTM16S-03594
Field Sample ID	78	79
Date Tested	28/07/2016	28/07/2016
Time Tested	16:00	16:30
Location	Layer 1	Layer 1
	Grid G6	Grid E6

Field and Laboratory Data

Depth of Test (mm)	225	225
AS Sieve Size (mm)	19.0	19.0
Field Moisture Content (%)	21.4	20.4
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.96	1.98
Field Dry Density (t/m ³)	1.62	1.65
Peak Converted Wet Density* (t/m ³)	1.95	1.93
Optimum Moisture Content (%)	22.5	22.0
Compactive Effort	Standard	Standard
Moisture Ratio (%)	96.0	92.5
Moisture Variation (%)	1.0 dry	1.5 dry
Hilf Density Ratio (%)	100.5	103.0

legend * adjusted for oversize material

Comments

Report No: HDR:ABTM16W01063

Issue No: 2

This report replaces all previous issues of report no 'HDR:ABTM16W01063'.

HILF Density Ratio Report


Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

K. B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 1/08/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-03638	ABTM16S-03639	ABTM16S-03640	ABTM16S-03641	ABTM16S-03642	ABTM16S-03643
Field Sample ID	80	81	82	83	84	85
Date Tested	29/07/2016	29/07/2016	29/07/2016	29/07/2016	29/07/2016	29/07/2016
Time Tested	07:30	13:00	13:30	14:00	14:30	14:45
Location	Layer 1	Layer 2	Layer 2	Layer 2	Layer 1	Layer 1
	Grid F6	Grid G6	Grid F6	Grid E6	Grid D6	Grid B6
Soil Description	Silty CIAY	Silty CIAY	Silty CIAY	Silty CIAY	Silty CIAY	Silty CIAY

Field and Laboratory Data

Depth of Test (mm)	225	225	225	225	225	225
Depth of Layer (mm)	250	250	250	250	250	250
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Field Moisture Content (%)	22.3	24.2	20.6	20.4	20.3	21.4
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.98	1.95	1.95	1.99	2.02	2.02
Field Dry Density (t/m³)	1.62	1.57	1.61	1.65	1.68	1.67
Peak Converted Wet Density* (t/m³)	1.96	1.96	1.96	1.95	1.97	1.97
Optimum Moisture Content (%)	23.0	24.5	20.0	20.0	20.5	21.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	96.5	100.0	103.0	101.0	100.0	100.5
Moisture Variation (%)	1.0 dry	0.0	0.5 wet	0.0	0.0	0.0
Hilf Density Ratio (%)	100.5	99.5	99.0	102.0	102.0	103.0

Legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

K. B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 2/08/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-03649	ABTM16S-03650	ABTM16S-03651	ABTM16S-03652	ABTM16S-03653
Field Sample ID	86	87	88	89	90
Date Tested	30/07/2016	30/07/2016	30/07/2016	30/07/2016	30/07/2016
Time Tested	11:00	11:15	11:30	12:30	12:45
Location	Layer 3	Layer 3	Layer 3	Layer 2	Layer 2
	Grid G6	Grid F6	Grid E6	Grid D6	Grid C6
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Field and Laboratory Data					
Depth of Test (mm)	225	225	225	225	225
Depth of Layer (mm)	250	250	250	250	250
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0
Field Moisture Content (%)	22.9	21.0	25.7	24.3	27.6
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	2.03	2.06	1.99	1.98	2.02
Field Dry Density (t/m ³)	1.65	1.70	1.58	1.59	1.58
Peak Converted Wet Density* (t/m ³)	1.98	1.94	2.00	1.96	1.94
Optimum Moisture Content (%)	23.0	23.0	25.5	24.0	26.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	100.0	90.5	100.5	101.5	105.5
Moisture Variation (%)	0.0	2.0 dry	0.0	0.5 wet	1.5 wet
Hilf Density Ratio (%)	102.5	106.0	99.5	101.0	104.0
Legend * adjusted for oversize material					

Comments

Report No: HDR:ABTM16W01176

Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:

Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

K. B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 17/08/2016



Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-03962	ABTM16S-03963
Field Sample ID	00082	00083
Client Sample ID	91	92
Date Tested	16/08/2016	16/08/2016
Time Tested	11:35	11:40
Location	Grid C6	Grid D6
	Layer 3	Layer 3

Field and Laboratory Data

Depth of Test (mm)	225	225
Depth of Layer (mm)	250	250
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	20.3	19.6
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.99	2.04
Field Dry Density (t/m ³)	1.66	1.71
Peak Converted Wet Density* (t/m ³)	2.02	1.99
Optimum Moisture Content (%)	20.5	19.5
Compactive Effort	Standard	Standard
Moisture Ratio (%)	99.5	99.0
Moisture Variation (%)	0.0	0.0
Hilf Density Ratio (%)	98.5	102.5

legend * adjusted for oversize material

Comments

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire


Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:

Accredited for compliance with ISO/IEC 17025.

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WORLD RECOGNISED ACCREDITATION

Marko Tomasevic
Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 26/08/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04176	ABTM16S-04177	ABTM16S-04178	ABTM16S-04179	ABTM16S-04180
Field Sample ID	00084	00085	00086	00087	00088
Client Sample ID	93	94	95	96	97
Date Tested	25/08/2016	25/08/2016	25/08/2016	25/08/2016	25/08/2016
Time Tested	11:30	12:00	15:00	15:15	15:45
Location	Trench Area South	Trench Area North	Trench Area North	Trench Area South	Trench Area North
	A5	A6	A6	A5	A6
	Layer 1	Layer 1	Layer 2	Layer 2	Layer 2
					Retest of 95

Field and Laboratory Data

Depth of Test (mm)	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200
Oversize Wet (%)	0	1	0	0	1
Field Moisture Content (%)	23.0	24.5	26.8	23.9	24.5
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.90	1.90	1.84	1.90	1.97
Field Dry Density (t/m ³)	1.54	1.53	1.45	1.54	1.58
Peak Converted Wet Density* (t/m ³)	1.93	1.94	1.87	1.89	1.96
Optimum Moisture Content (%)	23.0	26.5	27.5	26.5	24.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	99.0	92.5	97.5	90.5	100.5
Moisture Variation (%)	0.0	2.0 dry	0.5 dry	2.5 dry	0.0
Hilf Density Ratio (%)	98.0	98.0	98.5	101.0	100.5

legend * adjusted for oversize material

Comments


Report No: HDR:ABTM16W01276

Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Marko Tomasevic
Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 29/08/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04208	ABTM16S-04209	ABTM16S-04210	ABTM16S-04211	ABTM16S-04212	ABTM16S-04213
Field Sample ID	00089	00090	00091	00092	00093	00094
Client Sample ID	98	99	100	101	102	103
Date Tested	26/08/2016	26/08/2016	26/08/2016	26/08/2016	26/08/2016	26/08/2016
Time Tested	07:45	08:00	09:45	10:00	10:15	11:15
Location	A6	A5 North	A5 South	A4 North	A4 South	A6
	Layer 3	Layer 3	Layer 1	Layer 1	Layer 1	Layer 4

Field and Laboratory Data

Depth of Test (mm)	175	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200	200
Oversize Wet (%)	0	0	0	0	0	0
Field Moisture Content (%)	22.1	24.1	23.9	21.8	20.6	25.6
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.92	1.90	1.89	1.97	1.90	1.91
Field Dry Density (t/m ³)	1.57	1.53	1.53	1.62	1.57	1.52
Peak Converted Wet Density* (t/m ³)	1.92	2.00	1.94	1.91	1.95	2.01
Optimum Moisture Content (%)	22.5	24.5	22.0	24.0	21.0	25.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	99.0	98.5	109.0	90.5	98.0	99.5
Moisture Variation (%)	0.5 dry	0.5 dry	2.0 wet	2.0 dry	0.5 dry	0.0
Hilf Density Ratio (%)	99.5	95.0	97.5	103.0	97.5	95.0

Legend * adjusted for oversize material

Comments

Report No: HDR:ABTM16W01276

Issue No: 1

HILF Density Ratio Report


Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Marko Tomasevic
Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 29/08/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04214			
Field Sample ID	00095			
Client Sample ID	104			
Date Tested	26/08/2016			
Time Tested	12:30			
Location	A5 North			
	Layer 4			

Field and Laboratory Data

Depth of Test (mm)	175			
Depth of Layer (mm)	200			
Oversize Wet (%)	0			
Field Moisture Content (%)	16.4			
Field Moisture Content Method	AS 1289.2.1.1			
Field Wet Density (t/m ³)	1.99			
Field Dry Density (t/m ³)	1.71			
Peak Converted Wet Density* (t/m ³)	1.95			
Optimum Moisture Content (%)	18.5			
Compactive Effort	Standard			
Moisture Ratio (%)	88.0			
Moisture Variation (%)	2.0 dry			
Hilf Density Ratio (%)	102.0			

Legend * adjusted for oversize material

Comments


Report No: HDR:ABTM16W01279

Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Marko Tomasevic
Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 30/08/2016

WORLD RECOGNISED ACCREDITATION

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04223	ABTM16S-04224			
Field Sample ID	00098	00099			
Client Sample ID	105	106			
Date Tested	29/08/2016	29/08/2016			
Time Tested	08:30	08:50			
Location	A5	A4			
	Layer 2	Layer 2			

Field and Laboratory Data

Depth of Test (mm)	175	175			
Depth of Layer (mm)	200	200			
Oversize Wet (%)	4	0			
Field Moisture Content (%)	24.0	22.2			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m ³)	1.93	1.90			
Field Dry Density (t/m ³)	1.56	1.56			
Peak Converted Wet Density* (t/m ³)	1.92	1.89			
Optimum Moisture Content (%)	26.0	27.5			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	92.0	80.5			
Moisture Variation (%)	2.0 dry	5.0 dry			
Hilf Density Ratio (%)	100.5	101.0			

Legend * adjusted for oversize material

Comments

Report No: HDR:ABTM16W01304

Issue No: 1

HILF Density Ratio Report


Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Marko Tomasevic
Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 1/09/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04334	ABTM16S-04335			
Field Sample ID	00100	00101			
Client Sample ID	107	108			
Date Tested	31/08/2016	31/08/2016			
Time Tested	14:25	14:50			
Location	H6 West	H6 East			
	Layer 1	Layer 1			

Field and Laboratory Data

Depth of Test (mm)	175	175			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	3	0			
Field Moisture Content (%)	21.5	19.4			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m ³)	1.88	1.90			
Field Dry Density (t/m ³)	1.55	1.59			
Peak Converted Wet Density* (t/m ³)	1.87	1.81			
Optimum Moisture Content (%)	25.0	24.5			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	87.0	79.5			
Moisture Variation (%)	3.0 dry	5.0 dry			
Hilf Density Ratio (%)	101.0	104.5			

Legend * adjusted for oversize material

Comments

Report No: HDR:ABTM16W01315

Issue No: 1

HILF Density Ratio Report


Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Marko Tomasevic
Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 2/09/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04401	ABTM16S-04402	ABTM16S-04403
Field Sample ID	00102	00103	00104
Client Sample ID	109	110	111
Date Tested	1/09/2016	1/09/2016	1/09/2016
Time Tested	08:45	09:00	12:20
Location	H6 West	H6 East	H6 East
	Layer 2	Layer 2	Retest of 108 Layer 1

Field and Laboratory Data

Depth of Test (mm)	175	175	175
Depth of Layer (mm)	200	200	200
Oversize Wet (%)	0	0	0
Field Moisture Content (%)	25.6	24.0	23.5
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.99	1.90	1.94
Field Dry Density (t/m ³)	1.59	1.53	1.57
Peak Converted Wet Density* (t/m ³)	1.93	1.94	1.94
Optimum Moisture Content (%)	27.5	24.5	24.0
Compactive Effort	Standard	Standard	Standard
Moisture Ratio (%)	93.5	97.5	98.0
Moisture Variation (%)	1.5 dry	0.5 dry	0.5 dry
Hilf Density Ratio (%)	103.5	98.0	100.0

Legend * adjusted for oversize material

Comments


Report No: HDR:ABTM16W01352

Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Marko Tomasevic
Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number: 431
Date of Issue: 7/09/2016

WORLD RECOGNISED ACCREDITATION

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04466	ABTM16S-04467			
Field Sample ID	00219	00220			
Client Sample ID	112	113			
Date Tested	6/09/2016	6/09/2016			
Time Tested	15:45	16:00			
Location	H6 West	H6 East			
	Layer 3	Layer 3			

Field and Laboratory Data

Depth of Test (mm)	175	175			
Depth of Layer (mm)	200	200			
Oversize Wet (%)	0	0			
Field Moisture Content (%)	24.5	15.6			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m ³)	1.90	1.96			
Field Dry Density (t/m ³)	1.52	1.69			
Peak Converted Wet Density* (t/m ³)	1.88	1.93			
Optimum Moisture Content (%)	23.5	14.0			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	103.5	110.0			
Moisture Variation (%)	1.0 wet	1.5 wet			
Hilf Density Ratio (%)	100.5	101.0			
legend * adjusted for oversize material					

Comments

Report No: HDR:ABTM16W01360

Issue No: 2

This report replaces all previous issues of report no 'HDR:ABTM16W01360'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 8/09/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04485	ABTM16S-04486	ABTM16S-04487			
Field Sample ID	00110	00111	00112			
Client Sample ID	114	115	116			
Date Tested	7/09/2016	7/09/2016	7/09/2016			
Time Tested	10:30	11:00	11:30			
Location	G6 West	G6 East	H6			
	Layer 2	Layer 2	Layer 4			

Field and Laboratory Data

Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	12	0	7			
Field Moisture Content (%)	16.3	22.7	17.8			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m ³)	1.96	1.94	1.96			
Field Dry Density (t/m ³)	1.68	1.58	1.67			
Peak Converted Wet Density* (t/m ³)	2.00	1.89	1.93			
Optimum Moisture Content (%)	19.0	25.5	20.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	85.0	89.5	87.0			
Moisture Variation (%)	2.5 dry	2.5 dry	2.5 dry			
Hilf Density Ratio (%)	98.0	103.0	101.5			

Legend * adjusted for oversize material

Comments


Report No: HDR:ABTM16W01459

Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire
Project No.: INFOABTM00489AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3
Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Marko Tomasevic
Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 28/09/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04738	ABTM16S-04739			
Field Sample ID	00113	00114			
Client Sample ID	117	118			
Date Tested	27/09/2016	27/09/2016			
Time Tested	13:30	13:45			
Location	G5 North	F6 South			
	Layer 2	Layer 2			

Field and Laboratory Data

Depth of Test (mm)	175	175			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Moisture Content (%)	25.6	22.6			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m ³)	1.87	1.90			
Field Dry Density (t/m ³)	1.49	1.55			
Peak Converted Wet Density* (t/m ³)	1.88	1.80			
Optimum Moisture Content (%)	28.5	28.0			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	89.5	81.0			
Moisture Variation (%)	3.0 dry	5.0 dry			
Hilf Density Ratio (%)	99.5	105.5			

Legend * adjusted for oversize material

Comments

Report No: HDR:ABTM16W01500

Issue No: 1

HILF Density Ratio Report


Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:

Project No.: INFOABTM00532AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4

Lot No.: **TRN:**



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Marko Tomasevic
Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 10/10/2016

Sample Details

Location: Little Green, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04807	ABTM16S-04808	ABTM16S-04809	ABTM16S-04810	ABTM16S-04811	ABTM16S-04812
Field Sample ID	00245	00246	00247	00248	00249	00250
Client Sample ID	119	120	121	122	123	124
Date Tested	6/10/2016	6/10/2016	6/10/2016	6/10/2016	6/10/2016	6/10/2016
Time Tested	12:00	12:15	12:30	14:30	15:05	15:20
Location	F6 South Layer 1	F5 North Layer 1	G5 North Layer 1	F6 South Layer 2	F5 North Layer 2	G5 North Layer 2

Field and Laboratory Data

Depth of Test (mm)	175	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0	0
Field Moisture Content (%)	18.9	19.0	17.3	22.6	23.2	20.1
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	2.02	1.98	1.97	1.98	1.96	1.93
Field Dry Density (t/m³)	1.70	1.66	1.68	1.62	1.59	1.61
Peak Converted Wet Density* (t/m³)	1.93	1.97	1.96	1.95	1.87	1.87
Optimum Moisture Content (%)	21.5	21.5	19.5	25.0	26.5	23.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	87.5	88.0	88.0	90.0	87.0	85.0
Moisture Variation (%)	2.5 dry	2.5 dry	2.5 dry	2.5 dry	3.5 dry	3.5 dry
Hilf Density Ratio (%)	104.5	100.5	100.5	101.5	104.5	103.5

Legend * adjusted for oversize material

Comments

Report No: HDR:ABTM16W01509

Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Marko Tomasevic
Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 11/10/2016

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04847	ABTM16S-04848	ABTM16S-04849
Field Sample ID	125	126	127
Date Tested	7/10/2016	7/10/2016	7/10/2016
Time Tested	09:30	09:45	10:00
Location	F6-South	F5-North	G5-North
	Layer 3	Layer 3	Layer 3

Field and Laboratory Data

Depth of Test (mm)	175	175	175
Depth of Layer (mm)	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0
Oversize Wet (%)	0	0	0
Field Moisture Content (%)	18.9	20.4	19.7
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.96	1.96	1.98
Field Dry Density (t/m ³)	1.65	1.63	1.66
Peak Converted Wet Density* (t/m ³)	1.86	1.88	1.94
Optimum Moisture Content (%)	24.0	23.0	22.5
Compactive Effort	Standard	Standard	Standard
Moisture Ratio (%)	79.5	88.0	87.0
Moisture Variation (%)	4.5 dry	2.5 dry	3.0 dry
Hilf Density Ratio (%)	105.5	104.0	102.0

Legend * adjusted for oversize material

Comments

Report No: HDR:ABTM16W01558

Issue No: 2

This report replaces all previous issues of report no 'HDR:ABTM16W01558'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal: Spiire

Project No.: INFOABTM00489AA

Project Name: GEOTABTF09878AA - Little Green Estate - Level 1- Stage 3

Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Shaun Price

Approved Signatory: Shaun Price
(Senior Geotechnical Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 18/01/2017

Sample Details

Location: Little Green Estate, VIC

Client Request ID:

Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)

Field Test procedures: AS 1289.5.8.1

Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: On Site

Material: General Fill

Sample Data

Sample ID	ABTM16S-04969	ABTM16S-04970	ABTM16S-04971	ABTM16S-04972	ABTM16S-04973
Field Sample ID	00115	00116	00117	00118	00119
Client Sample ID	128	129	130	131	132
Date Tested	18/10/2016	18/10/2016	18/10/2016	18/10/2016	18/10/2016
Time Tested	10:55	11:15	12:45	13:00	13:15
Location	G5	F5-North	F6-South	F5-North	G5
	Layer 2	Layer 2	Layer 3	Layer 3	Layer 3

Field and Laboratory Data

Depth of Test (mm)	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0
Field Moisture Content (%)	21.5	20.9	21.0	19.2	20.8
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.97	1.99	1.99	2.02	1.99
Field Dry Density (t/m ³)	1.62	1.64	1.65	1.70	1.65
Peak Converted Wet Density* (t/m ³)	1.98	2.01	1.95	1.94	1.92
Optimum Moisture Content (%)	21.5	21.0	24.0	22.0	22.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	99.0	99.0	88.5	87.5	93.5
Moisture Variation (%)	0.0	0.0	2.5 dry	2.5 dry	1.5 dry
Hilf Density Ratio (%)	99.5	99.0	102.5	104.0	104.0

Legend * adjusted for oversize material

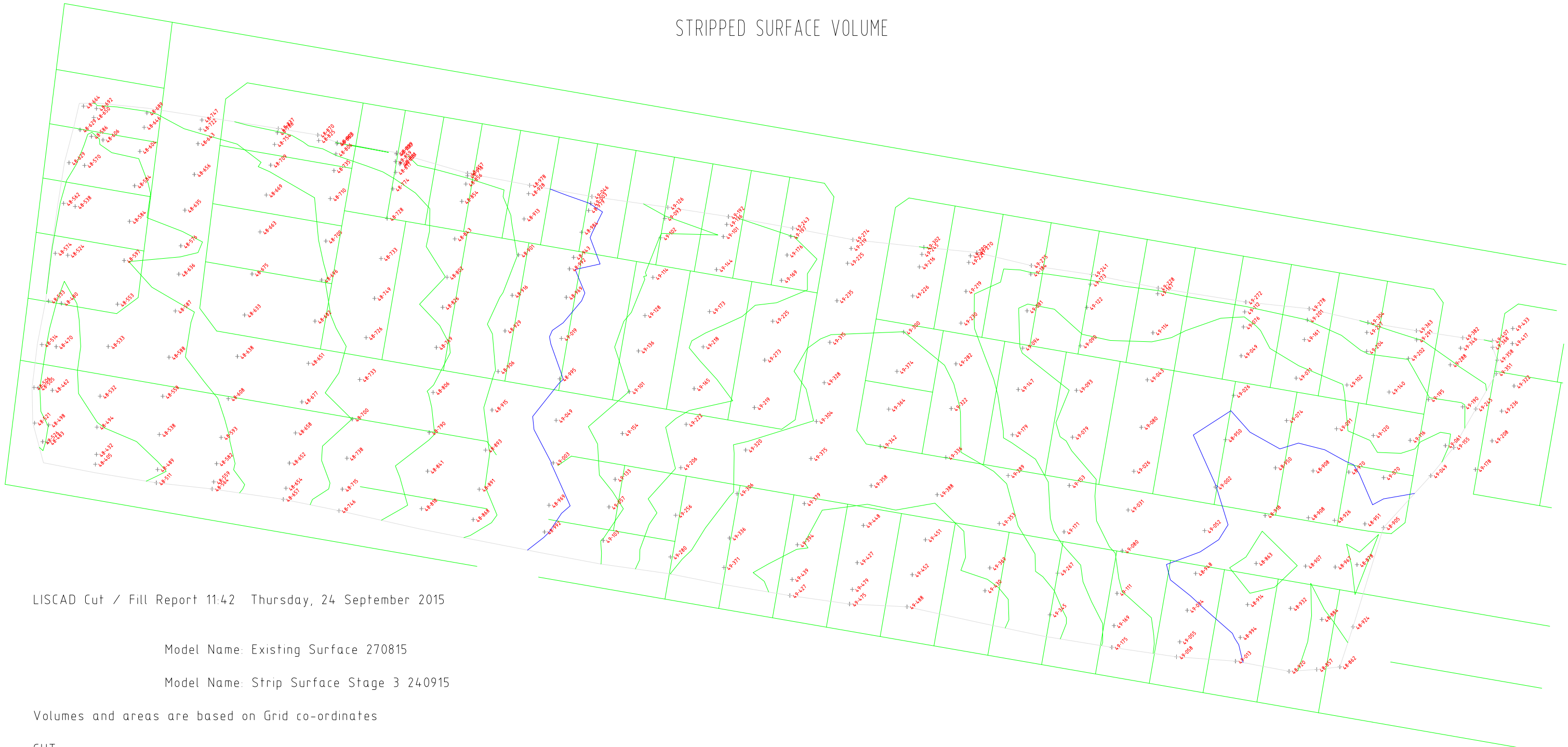
Comments

**Appendix B - “Little Green Residential Precinct 1
Stage 3 - Civil works 5 & 6” civil drawings**

DO NOT SCALE

Little Green - Stage 3 Bulk Earthworks

STRIPPED SURFACE VOLUME



LISCAD Cut / Fill Report 11.42 Thursday, 24 September 2015

Model Name: Existing Surface 270815

Model Name: Strip Surface Stage 3 240915

Volumes and areas are based on Grid co-ordinates

CUT

Volume: 3,035,305 Cubic Metres

REF	ZONE	REVISION	DATE	APP'D
		Two Levels Added	14/01/2017	
		one	24/09/2015	

GENERAL NOTES
 Major Contours 1-0m
 Minor Contours 0-1m

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PLAN REFERENCE		DRAWN	Adam
MELWAY REFERENCE		DRAFT CHECK	
DESIGN FILE No.		DESIGNED	
		ENG. CHECK	
		APPROVED	

J·A·C· Surveyors Pty Ltd
 LAND & ENGINEERING SURVEYING
 Unit 4/55 Parer Rd, Airport West
 Victoria 3042
 Telephone (03) 9338 2418
 Email: admin@jacsurveyors.com

CAD FILE NO: **A3** Dwg. No: 150824AC 2 STAGE 3 STRIP SURFACE-see

BMD

Little Green - Stage 3
 Bulk Earthworks
 STRIPPED SURFACE VOLUME

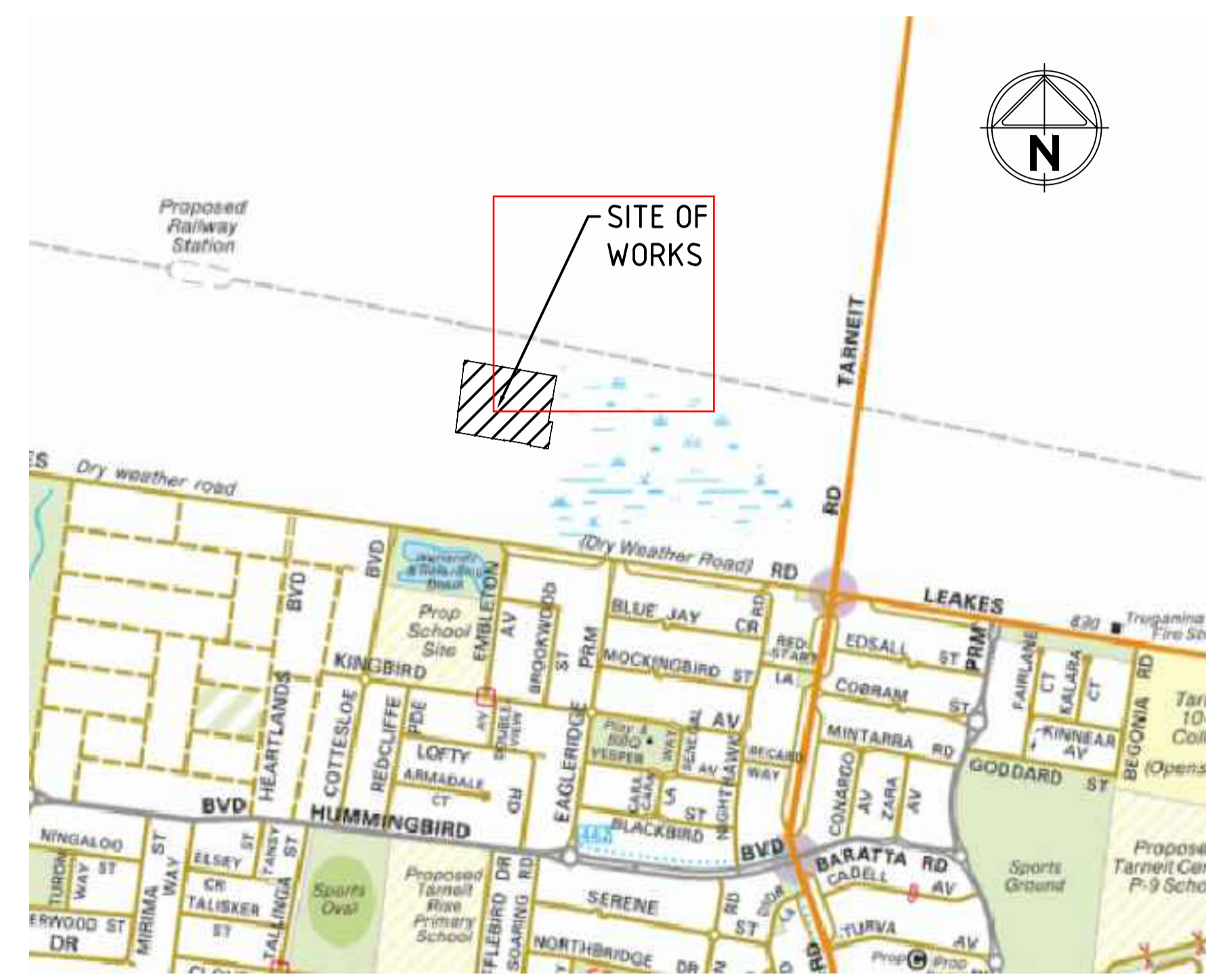
SCALE 1:1000
 SHEET 1 OF 1
 DRAWING NO. 15-1681-002

LITTLE GREEN STAGE 5 PEET NO. 1895 PTY LTD

GENERAL NOTES:

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN $\pm 0.05m$.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, TRENCHES, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
- FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.5m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION.
- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S PERMISSION.
- GAS AND WATER CONDUITS ARE TO BE:
 - Ø50mm . CLASS 12 P.V.C. - SINGLE SERVICE
 - Ø100mm . CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)
 WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
 ROAD PAVEMENT - 0.80m
 VERGE, FOOTPATHS - 0.45m
- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.).
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- WHERE CURVED PIPE ALIGNMENTS ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
- TELSTRA IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF

- SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
- WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
- TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.
- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
- TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.
- THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.



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SHEET NUMBER	SHEET DESCRIPTION	REVISION
01	FACE SHEET	2
02	FACE PLAN	1
03	ROAD LONG SECTIONS	0
05	ROAD CROSS SECTIONS	0
06	ROAD CROSS SECTIONS	1
07	ROAD CROSS SECTIONS	1
08	INTERSECTION DETAILS	0
09	INTERSECTION DETAILS	0
10	DRAINAGE LONG SECTIONS	1
11	DRAINAGE LONG SECTIONS	1
12	DRAINAGE PIT SCHEDULE	1
13	STANDARD DETAILS	0
14	CATCH DRAIN DETAILS	0
15	RETAINING WALL A DETAIL	0
16	RETAINING WALL B DETAIL	0
17	SIGNAGE & LINEMARKING	0

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		RECYCLED WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
									SIDE	OFFSET	SIDE	OFFSET
STYLE WAY	S	3.15	S	2.68	S	2.25	N	1.84	N	1.00x	N	2.55
LIFE STREET	E	3.15	E	2.68	E	2.25	W	1.84	W	1.00x	W	2.40
MODERN CRESCENT (12.5m WIDE ROAD SECTION)	S	4.15	S	3.70	S	3.30	S	1.84	N	1.00x	S	2.40
MODERN CRESCENT (16m WIDE ROAD SECTION)	W	3.15	W	2.68	W	2.25	E	1.84	E	1.00x	E	2.55

1: TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
 2: GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
 3: * = OFFSET FROM BACK OF KERB

LEGEND

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.



Rev	Amendments	App'd	Date
2	REVISED NORTH RRL FOOTPATH AND MODERN CRESCENT X-SECTIONS	M.Z.	1/06/16
1	REVISED PIPE DEPTHS & GRADES TO MAKE CLASS 4	M.Z.	23/05/16
0	ISSUED FOR CONSTRUCTION	M.Z.	13/05/16
B	REVISED PLANS AS PER COUNCIL & VALIDATION COMMENTS	M.Z.	12/05/16
A	ISSUED FOR APPROVAL	M.Z.	28/03/16

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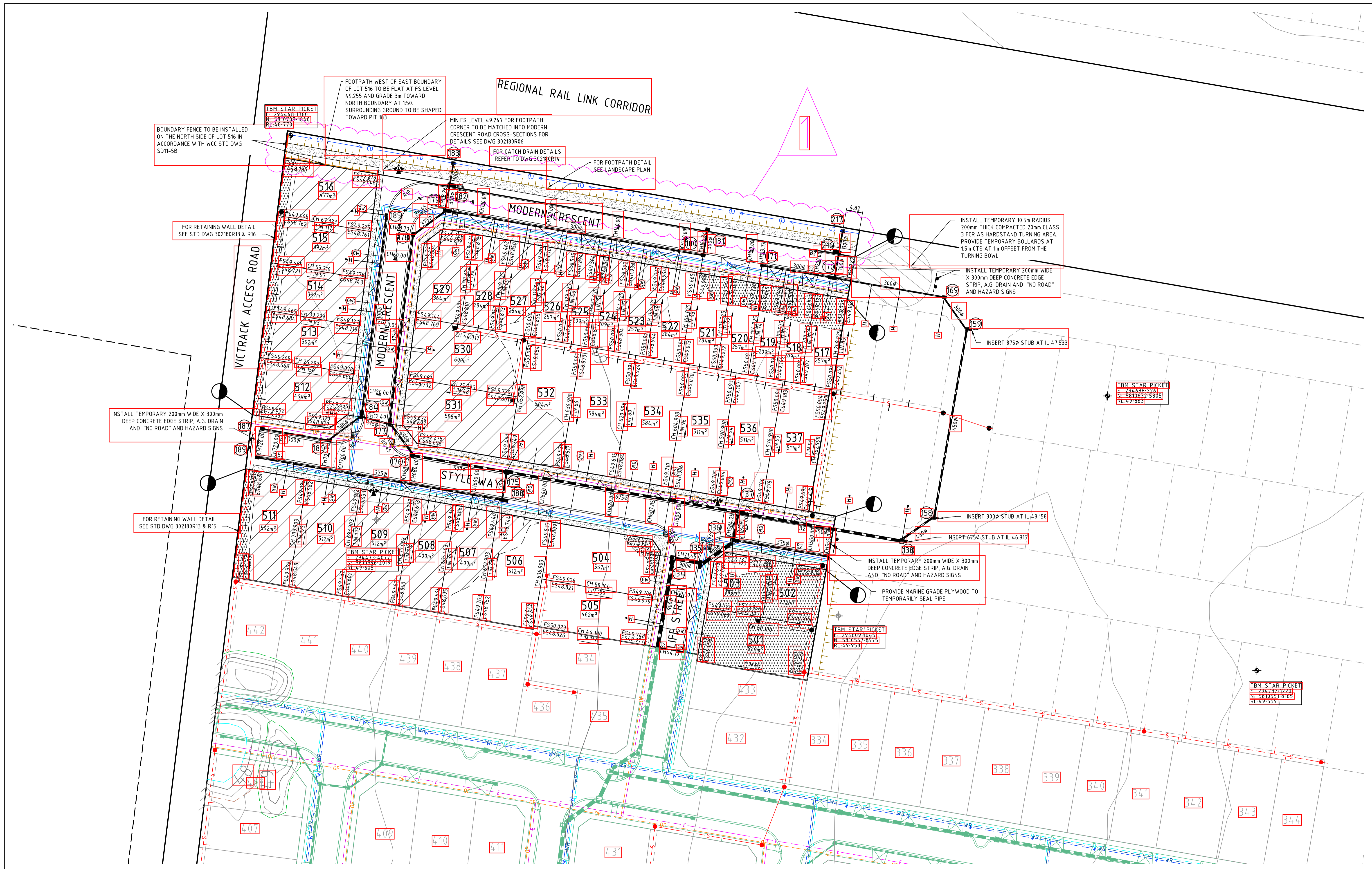
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B. IBBS
Authorised MAR 2016
M. ZAMMATARO

PEET
Map Reference MELWAY 220 K12 (Ed. 42)
Sheet Number 01
Drg Status PRELIMINARY

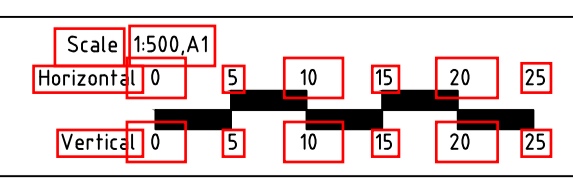
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**LITTLE GREEN
STAGE 5
FACE SHEET**
PEET NO. 1895 PTY LTD
WYNDHAM CITY COUNCIL
Rev 2
Drg No 302180R01



Rev	Amendments	App'd	Date
1	REVISED FOOTPATH WIDTH TO 2.5m AND OFFSET FROM BACK OF KERB TO 1.8m	M.Z.	1/06/16
0	ISSUED FOR CONSTRUCTION	M.Z.	13/05/16
B	REVISED FS LEVELS 517-537, FILL CONTOURS, NW FOOTPATH & PRAM CROSSING	M.Z.	12/05/16
A	ISSUED FOR APPROVAL	M.Z.	28/03/16

file name 302180R2-FP.dwg layout name R2-1
 file location G:\302180\ACAD
 plotted by Simon Davies plot date 1/6/2016 9:22 AM
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 B. IBBS
 Authorised MAR 2016
 M. ZAMMATARO

Map Reference MELWAY 220 K12 (Ed. 42)
 Sheet Number 02
 Drg Status PRELIMINARY

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**LITTLE GREEN
 STAGE 5
 FACE PLAN**

PEET NO. 1895 PTY LTD
 WYNDHAM CITY COUNCIL

Rev 1
 Drg No 302180R02

LITTLE GREEN STAGE 6 PEET NO. 1895 PTY LTD

GENERAL NOTES:

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, TRENCHES, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
- FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- T.B.M.'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.50m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION.
- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S PERMISSION.
- GAS AND WATER CONDUITS ARE TO BE:
 - Ø50mm: CLASS 12 P.V.C. - SINGLE SERVICE
 - Ø100mm: CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)
 WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
 - ROAD PAVEMENT: - 0.80m
 - VERGE, FOOTPATHS: - 0.45m
- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.).
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- WHERE CURVED PIPE ALIGNMENTS ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
- TELSTRA IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF

SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.

WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.

WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.

LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.

ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.

TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.

CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.

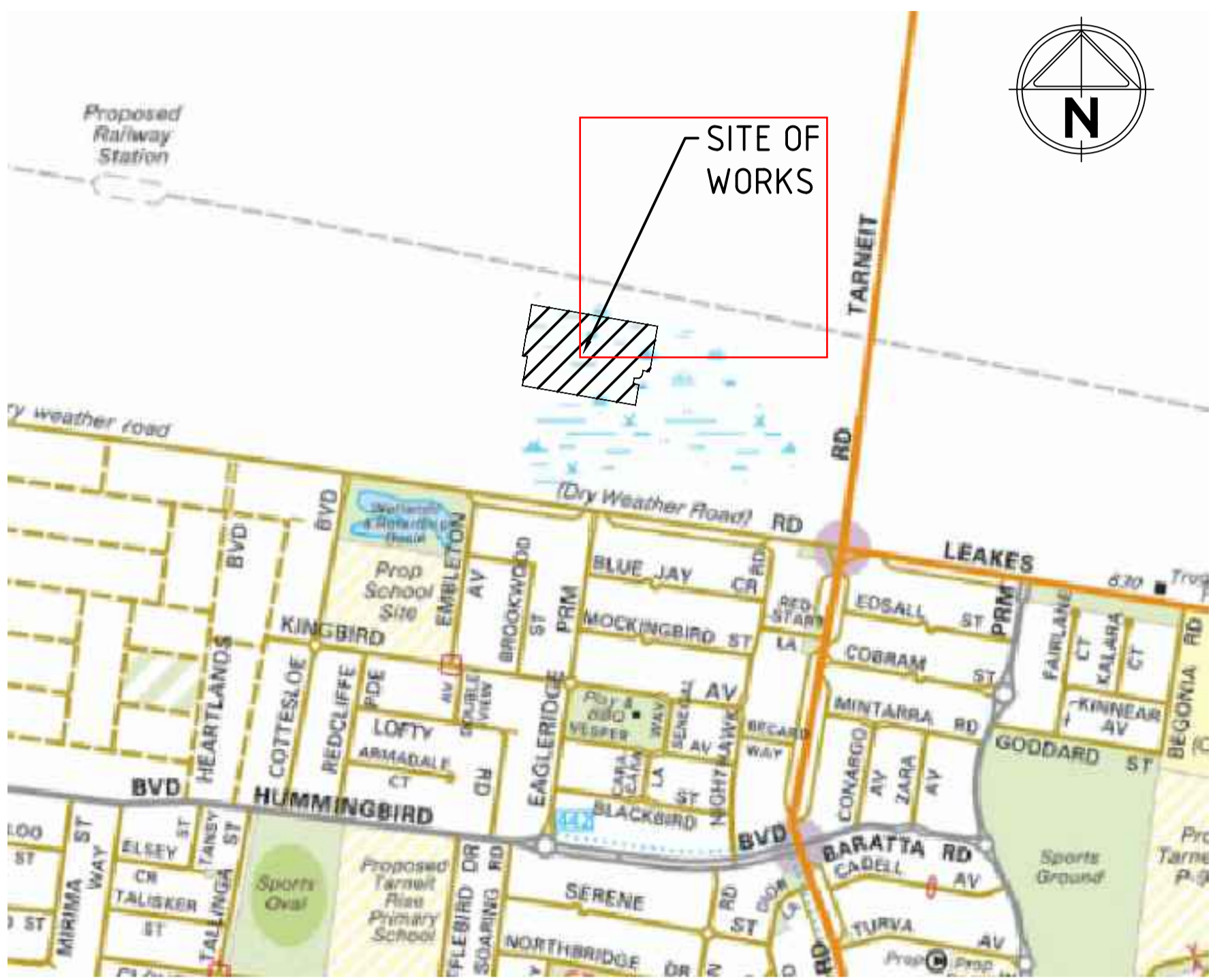
ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.

TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.

THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.

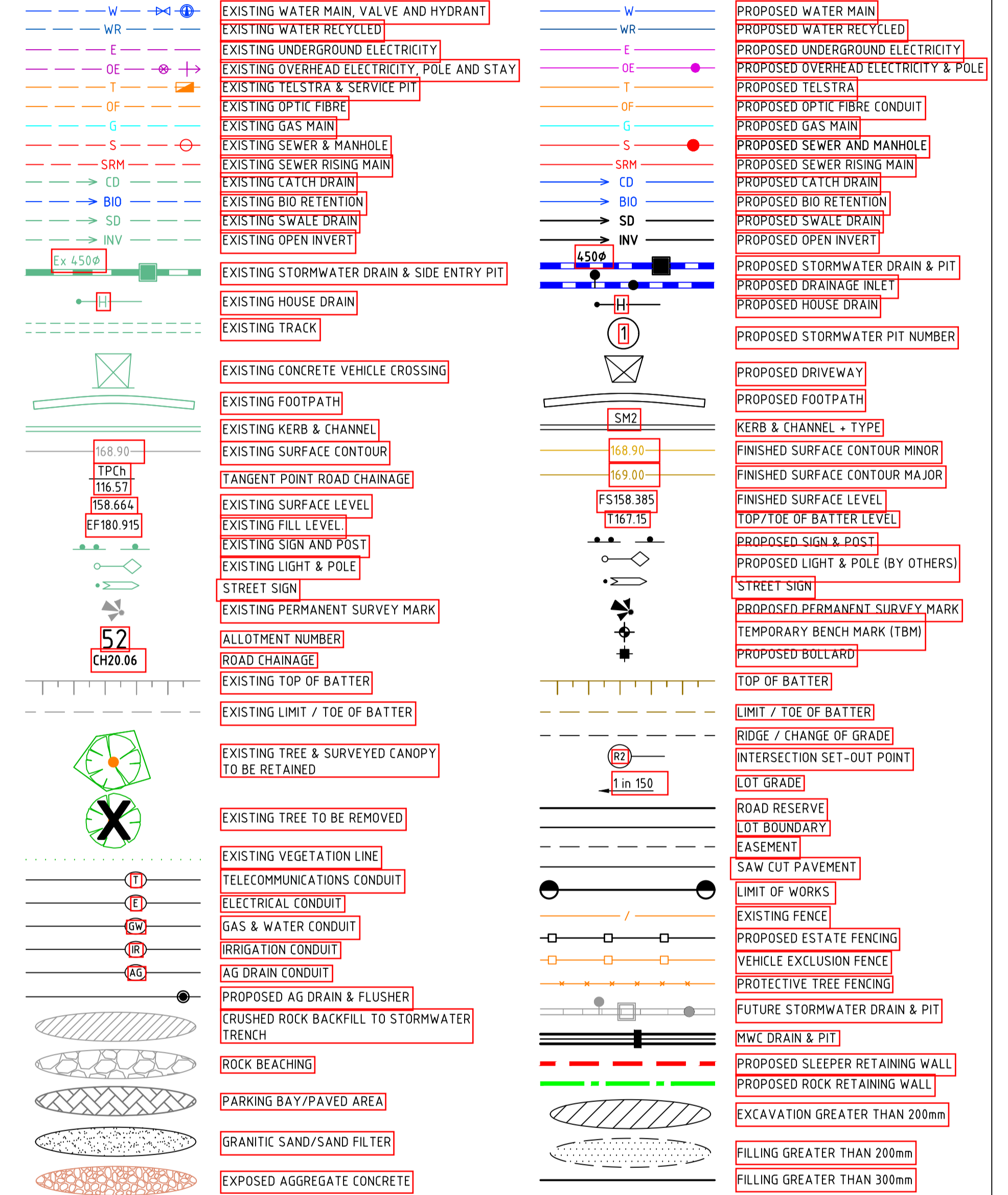
INDEX TO SHEETS

SHEET NUMBER	DETAILS	REVISION
01	FACE SHEET	1
02	FACE PLAN	1
03	ROAD LONG SECTIONS	0
04	ROAD LONG SECTIONS	0
05	ROAD CROSS SECTIONS	0
06	ROAD CROSS SECTIONS	0
07	ROAD CROSS SECTIONS	0
08	INTERSECTION DETAILS	0
09	INTERSECTION DETAILS	0
10	DRAINAGE LONG SECTIONS	0
11	DRAINAGE LONG SECTIONS	0
12	DRAINAGE PIT SCHEDULE	0
13	STANDARD DETAILS	0
14	RAISED PAVEMENT DETAIL	0
15	CATCH DRAIN DETAIL	0
16	SIGNAGE AND LINEMARKING	0



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LEGEND



SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		RECYCLED WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
STYLE WAY	S	3.15	S	2.68	S	2.25	N	1.84	N	1.00x	N	2.55
PEACHTREE TERRACE	S	3.15	S	2.68	E	2.25	W	1.84	W	1.00x	W	2.55
MODERN CRESCENT	S	4.15	S	3.70	S	3.30	S	1.84	N	1.00x	S	2.40
PLUMTREE TERRACE	E	3.15	E	2.68	E	2.25	W	1.84	W	1.00x	W	2.55

1. TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.

2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.

3. X = OFFSET FROM BACK OF KERB

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES

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Rev	Amendments	App'd	Date
1	REMOVED DW & NDW MAINS IN PEACHTREE TERRACE	M.Z.	21/07/16
0	ISSUED FOR CONSTRUCTION	M.Z.	18/07/16
C	RAISED INTERSECTION CONSTRUCTION MATERIAL	M.Z.	27/06/16
B	REVISED PLANS AS PER COUNCIL COMMENTS	M.Z.	17/06/16
A	ISSUED FOR APPROVAL	M.Z.	20/04/16

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Designed S. DAVIES JUN 16
Checked B. IBBS JUN 16
Authorised M. ZAMMATARO JUN 16

Map Reference MELWAY 359 A12 (Ed.12)
Sheet Number 01
Drg Status PRELIMINARY

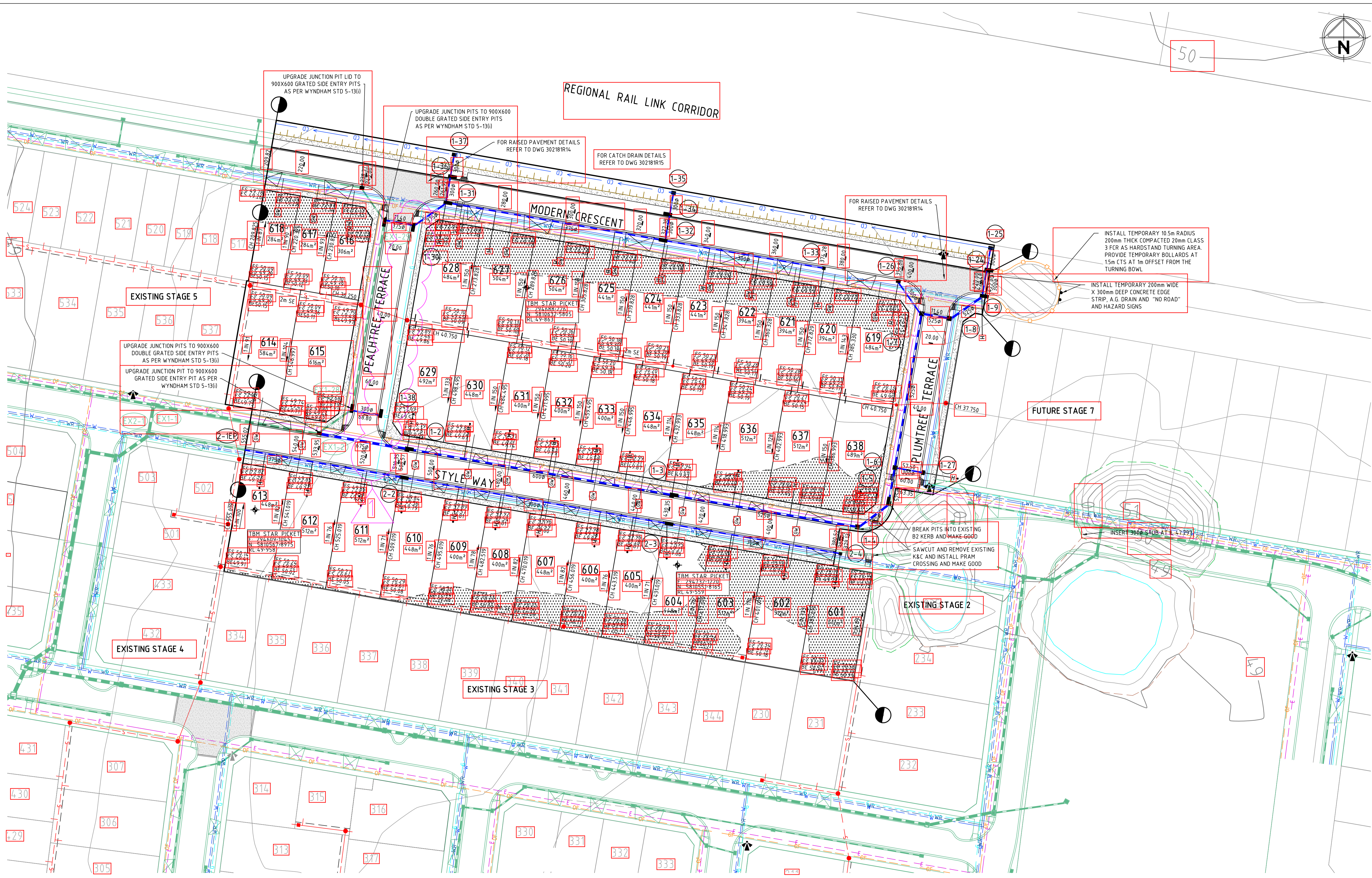
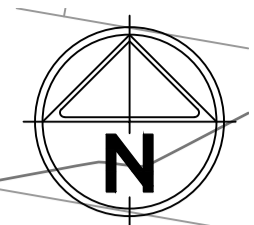


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LITTLE GREEN STAGE 6 FACE SHEET

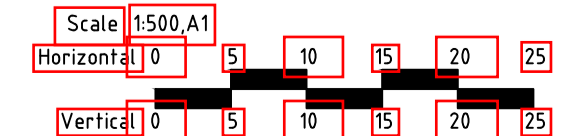
PEET NO. 1895 PTY LTD
WYNDHAM CITY COUNCIL

Rev 1
Drg No 302181R01



Rev	Amendments	App'd	Date
1	REMOVED DW & NDW MAINS IN PEACHTREE TERRACE	M.Z.	21/07/16
0	ISSUED FOR CONSTRUCTION	M.Z.	18/07/16
B	REVISED DGEP PITS, FS LEVELS 614-618, FOOTPATH, FILL & SE PRAM CROSSING	M.Z.	17/06/16
A	ISSUED FOR APPROVAL	M.Z.	20/04/16

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**LITTLE GREEN
 STAGE 6
 FACE PLAN**

PEET NO. 1895 PTY LTD
 WYNDHAM CITY COUNCIL

Rev 1
 Drg No 302181R02

Appendix C - Summary of imported fill material

GEOTABTF09878AA - LITTLE GREEN - IMPORT MATERIAL SUMMARY

Fill source	Dates observed	Estimated volume (m3) by Coffey	Volume (m3)	Stage placed
Ravenshall Prison	25/09/2015	1250		3
Ravenshall Prison	28/09/2015	1000		3
Ravenshall Prison	30/09/2015	1500		3
Ravenshall Prison	1/10/2015	950		3
Caroline Springs	6/10/2015	150		3
Werribee, Caroline Springs	7/10/2015	210		3
St Albans, Caroline Springs,	8/10/2015	880		3
St Albans, Caroline Springs,	9/10/2015	820		3
St Albans, Werribee	10/10/2015	1500		3
St Albans, Werribee	12/10/2015	1400		3
St Albans, Vinedex Sunshine	13/10/2015	650		3
St Albans, Vinedex Sunshine, Ravenshall Prison	14/10/2015	2300		3
St Albans, Werribee	15/10/2015	x		3
St Albans, Vinedex Sunshine	16/10/2015	x		3
Vinedex Sunshine, St Albans	20/10/2015	160		3
Ravenshall Prison, St Albans	21/10/2015	2190		3
South Yarra, Ravenshall Prison, St Albans	22/10/2015	810		1 & 3
South Yarra, Ravenshall Prison	23/10/2015	550		1 & 3
South Yarra, Ravenshall Prison, Werribee	26/10/2015	1900		1 & 3
Coburg, South Melbourne, Werribee Plaza	27/10/2015	1150		1 & 3
Coburg, South Melbourne	28/10/2015	1150		1 & 3
Altona, South Melbourne, Werribee	29/10/2015	2020		1 & 3
Altona, Coburg, On-site (Stage 1 only)	30/10/2015	1040		1 & 3
Coburg, South Melbourne, On-site (Stage 1 only)	4/11/2015	740		1 & 3
St Albans, Coburg, South Melbourne, On-site (Stage 1 only)	10/11/2015	1380		1 & 3
Ravenshall Prison, Ivanhoe, Laverton, On-site (Stage 1 only)	16/11/2015	940		1 & 3
Ivanhoe, Ravenshall Prison,	18/11/2015	2180		1 & 3
Melton, South Melbourne, Ravenshall Prison	19/11/2015	3000		3
Coburg, South Melbourne, Ravenshall Prison	20/11/2015	2880		3
Coburg	23/11/2015	840		3
South Melbourne, Ravenshall Prison, on-site (Stage 1 only)	24/11/2015	940		1 & 3
South Melbourne, Ravenshall Prison, on-site (Stage 1 only)	25/11/2015	1340		1 & 3
South Melbourne, Ravenshall Prison, on-site (Stage 1 only)	26/11/2015	1840		1 & 3
Ravenshall Prison, Niddrie	27/11/2015	1680		3
Ravenshall Prison	28/11/2015	600		3

Fill source	Dates observed	Estimated volume (m3) by Coffey	Volume (m3)	Stage placed
Galvin Park, Ravenhall Prison	30/11/2015	2060		3 & 4
Ravenhall Prison	1/12/2015	1460		3 & 4
Coburg, Ravenhall Prison	2/12/2015	1810		3 & 4
South Yarra, St Albans	8/12/2015	1100		3 & 4
Coburg	11/12/2015	530		3 & 4
Coburg, St Albans	15/12/2015	230		3 & 4
Ravenhall Prison, St Albans	16/12/2015	1550		3 & 4
St Albans	4/01/2016	60		3 & 4
St Albans	5/01/2016	20		4
Coburg, St Albans	6/01/2016	790		3 & 4
Coburg	7/01/2016	1080		3 & 4
Coburg	8/01/2016	200		3 & 4

GEOTABTF09878AA - LITTLE GREEN - IMPORT MATERIAL SUMMARY (DRAFT)

Fill source	Dates observed	Estimated volume (m3) by Coffey	Stage placed	Environmental report	Geotech report	Comment
x	1/05/2015	x	x			
	2/05/2015					
x	3/05/2015	x	x			
Werribee Plaza, Point Cook	4/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit	5/05/2015	2500-3000	1			
Epping, Werribee plaza, Point Cook, Truganina, Broadmedows, Tarneit	6/05/2015	2500-3000	1			
Epping, Werribee plaza, Point Cook, Truganina, Broadmedows, Tarneit	7/05/2015	x	1			
x	8/05/2015	x	1			
	9/05/2015					
x	10/05/2015	x	1			
Epping, Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, Preston	11/05/2015	x	1			
x	12/05/2015	x	1			
Epping, Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, Preston, Werribee Hospital	13/05/2015	2900	1			
x	14/05/2015	x	1			
	15/05/2015					
	16/05/2015					
Epping, Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, Preston, Werribee Hospital	17/05/2015	x	1			
x	18/05/2015	x	1			
Epping, Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, Preston, Werribee Hospital	19/05/2015	x	1			
x	20/05/2015	x	1			
Werribee Plaza, Point Cook	21/05/2015	1980	1			
Tarneit, Broadmeadows	22/05/2015	x	1			
	23/05/2015					
Tarneit, Broadmeadows	24/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	25/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	26/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	27/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	28/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	29/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	30/05/2015	x	1			
	31/05/2015					
	1/06/2015					
x	2/06/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	3/06/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	4/06/2015	x	1			
	5/06/2015					
	6/06/2015					
	7/06/2015					
	8/06/2015					
	9/06/2015					
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	10/06/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	11/06/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	12/06/2015	x	1			
	13/06/2015					
	14/06/2015					
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	15/06/2015	x	1			
x	16/06/2015	x	1			
x	17/06/2015	x	1			
	18/06/2015					
	19/06/2015					
	20/06/2015					
	21/06/2015					
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	22/06/2015	x	1			
BMD roadworks (parallel road)	23/06/2015	x	1			
BMD roadworks (parallel road)	24/06/2015	x	1			
BMD roadworks (parallel road)	25/06/2015	x	1			
BMD roadworks (parallel road)	26/06/2015	x	1			
	27/06/2015					
	28/06/2015					
BMD roadworks (parallel road)	29/06/2015	x	1			
BMD roadworks (parallel road)	30/06/2015	x	1			
BMD roadworks (parallel road)	1/07/2015	x	1			
BMD roadworks (parallel road), local BMD project	2/07/2015	x	1			
BMD roadworks (parallel road), local BMD project	3/07/2015	x	1			
	4/07/2015					
	5/07/2015					
	6/07/2015					
	7/07/2015					
BMD roadworks (parallel road), local BMD project	8/07/2015	x	1			

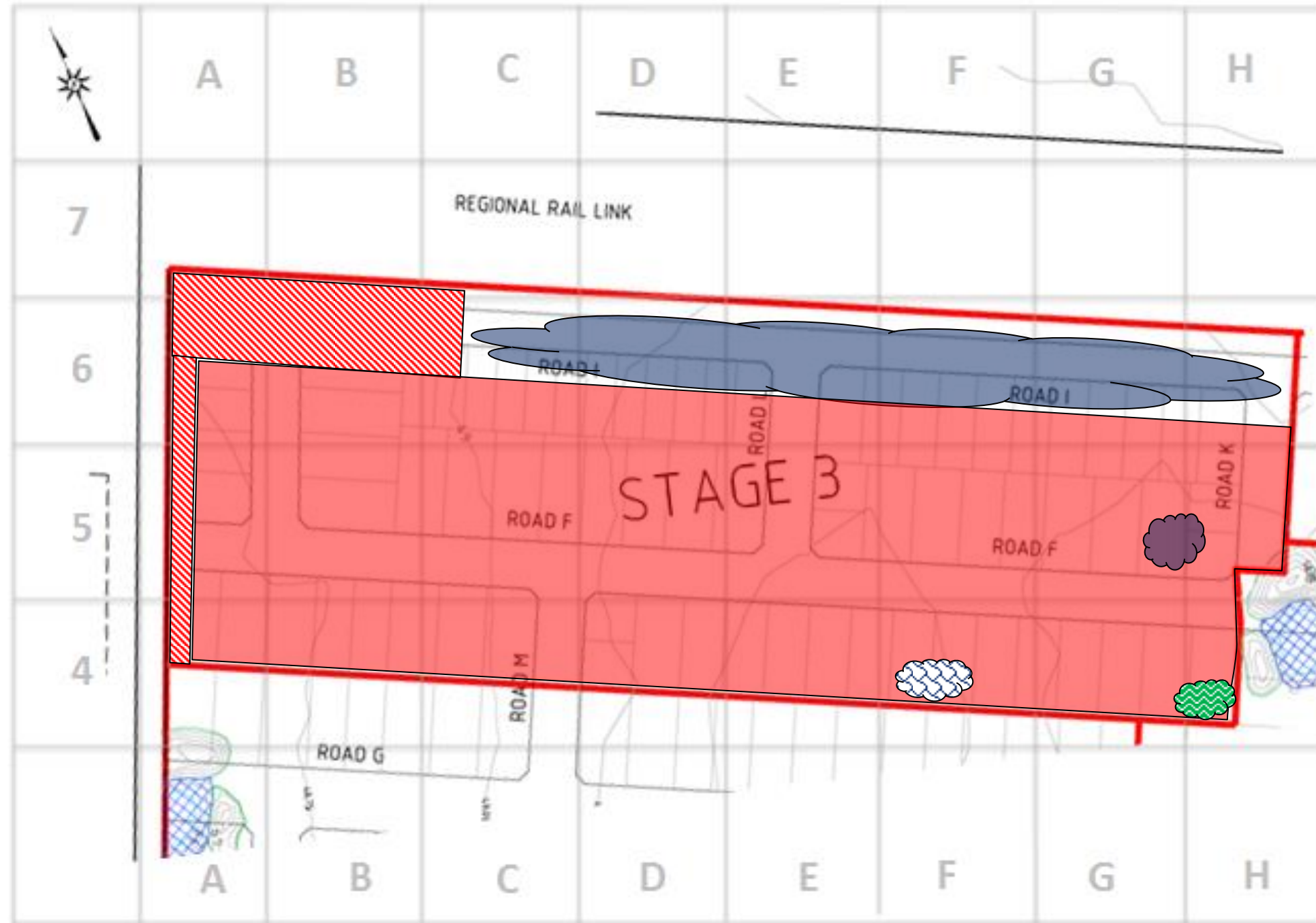
BMD roadworks (parallel road), local BMD project	9/07/2015	x	1
BMD roadworks (parallel road), local BMD project	10/07/2015	x	1
	11/07/2015		
	12/07/2015		
	13/07/2015		
	14/07/2015		
	15/07/2015		
	16/07/2015		
	17/07/2015		
	18/07/2015		
	19/07/2015		
	20/07/2015		
	21/07/2015		
	22/07/2015		
	23/07/2015		
Wootten road (local BMD project)	24/07/2015	x	1 & 2
	25/07/2015		
	26/07/2015		
Wootten road (local BMD project)	27/07/2015	x	2
Wootten road (local BMD project)	28/07/2015	x	2
Wootten road (local BMD project)	29/07/2015	x	2
Ivanhoe, Ravenhall Prison	30/07/2015	1640	2
x	31/07/2015	x	2
	1/08/2015		
	2/08/2015		
x	3/08/2015	x	2
Werribee Plaza	4/08/2015	2520	2
x	5/08/2015	x	2
Werribee Plaza	6/08/2015	1970	2
Werribee Plaza	7/08/2015	2300	2
	8/08/2015		
	9/08/2015		
Werribee Plaza, Ivanhoe	10/08/2015	1700	2
Werribee Plaza, Ivanhoe	11/08/2015	200	2
Werribee Plaza, Ivanhoe	12/08/2015	920	2
Werribee Plaza, Ivanhoe, South Yarra (Landtrack)	13/08/2015	840	2
Werribee Plaza, Ivanhoe, South Yarra (Landtrack)	14/08/2015	940	2
	15/08/2015		
	16/08/2015		
Leakes roadworks	17/08/2015	1534.5	1 & 2
Leakes roadworks, Werribee Plaza, Essendon	18/08/2015	2163	1 & 2
Leakes roadworks, Werribee Plaza, Essendon	19/08/2015	2704	2
Leakes roadworks, Werribee Plaza	20/08/2015	3721	2
Leakes roadworks, Ravenhall Prison	21/08/2015	2620	2
	22/08/2015		
	23/08/2015		
Werribee Plaza, South Yarra (Landtrack)	24/08/2015	2530	2
Werribee Plaza, Ivanhoe Prison	25/08/2015	1330	2
Glen Iris (Chappell street), Leakes roadworks	26/08/2015	1000	2
Glen Iris (Chappell street), Leakes roadworks	27/08/2015	1000	2
Glen Iris (Chappell street), Leakes roadworks	28/08/2015	730	2
	29/08/2015		
	30/08/2015		
South Yarra, Ravenhall Prison, Wootten road	31/08/2015	780	2
Werribee Plaza, Ravenhall Prison	1/09/2015	1740	2
Werribee Plaza, South Yarra (Chapel street)	2/09/2015	1430	2
x	3/09/2015	x	x
x	4/09/2015	x	x
	5/09/2015		
	6/09/2015		
x	7/09/2015	x	x
	8/09/2015		
x	9/09/2015	x	2
x	10/09/2015	x	2
	11/09/2015		
	12/09/2015		
	13/09/2015		
	14/09/2015		
	15/09/2015		
	16/09/2015		
	17/09/2015		
	18/09/2015		
	19/09/2015		
	20/09/2015		
	21/09/2015		
	22/09/2015		

	23/09/2015		
x	24/09/2015	x	3
Ravenhall Prison	25/09/2015	1250	3
	26/09/2015		
	27/09/2015		
Ravenhall Prison	28/09/2015	1000	3
	29/09/2015		
Ravenhall Prison	30/09/2015	1500	3
Ravenhall Prison	1/10/2015	950	3
	2/10/2015		
	3/10/2015		
	4/10/2015		
	5/10/2015		
Caroline Springs	6/10/2015	150	3
Werribee, Caroline Springs	7/10/2015	210	3
St Albans, Caroline Springs,	8/10/2015	880	3
St Albans, Caroline Springs,	9/10/2015	820	3
St Albans, Werribee	10/10/2015	1500	3
	11/10/2015		
St Albans, Werribee	12/10/2015	1400	3
St Albans, Vinedex Sunshine	13/10/2015	650	3
St Albans, Vinedex Sunshine, Ravenhall Prison	14/10/2015	2300	3
St Albans, Werribee	15/10/2015	x	3
St Albans, Vinedex Sunshine	16/10/2015	x	3
	17/10/2015		
	18/10/2015		
x	19/10/2015	x	3
Vinedex Sunshine, St Albans	20/10/2015	160	3
Ravenhall Prison, St Albans	21/10/2015	2190	3
South Yarra, Ravenhall Prison, St Albans	22/10/2015	810	1 & 3
South Yarra, Ravenhall Prison	23/10/2015	550	1 & 3
	24/10/2015		
	25/10/2015		
South Yarra, Ravenhall Prison, Werribee	26/10/2015	1900	1 & 3
Coburg, South Melbourne, Werribee Plaza	27/10/2015	1150	1 & 3
Coburg, South Melbourne	28/10/2015	1150	1 & 3
Altona, South Melbourne, Werribee	29/10/2015	2020	1 & 3
Altona, Coburg, On-site (Stage 1 only)	30/10/2015	1040	1 & 3
	31/10/2015		
	1/11/2015		
	2/11/2015		
	3/11/2015		
Coburg, South Melbourne, On-site (Stage 1 only)	4/11/2015	740	1 & 3
	5/11/2015		
	6/11/2015		
	7/11/2015		
	8/11/2015		
On-site (Stage 1 only)	9/11/2015		
St Albans, Coburg, South Melbourne, On-site (Stage 1 only)	10/11/2015	1380	1 & 3
On-site (Stage 1 only)	11/11/2015		
On-site (Stage 1 only)	12/11/2015		
On-site (Stage 1 only)	13/11/2015		
	14/11/2015		
	15/11/2015		
Ravenhall Prison, Ivanhoe, Laverton, On-site (Stage 1 only)	16/11/2015	940	1 & 3
On-site (Stage 1 only)	17/11/2015		3
Ivanhoe, Ravenhall Prison,	18/11/2015		1 & 3
Melton, South Melbourne, Ravenhall Prison	19/11/2015	3000	3
Coburg, South Melbourne, Ravenhall Prison	20/11/2015	2880	3
	21/11/2015		
	22/11/2015		
Coburg	23/11/2015	840	3
South Melbourne, Ravenhall Prison, on-site (Stage 1 only)	24/11/2015	940	1 & 3
South Melbourne, Ravenhall Prison, on-site (Stage 1 only)	25/11/2015	1340	1 & 3
South Melbourne, Ravenhall Prison, on-site (Stage 1 only)	26/11/2015	1840	1 & 3
Ravenhall Prison, Niddrie	27/11/2015	1680	3
Ravenhall Prison	28/11/2015	600	3
	29/11/2015		
Galvin Park, Ravenhall Prison	30/11/2015	2060	3 & 4
Ravenhall Prison	1/12/2015	1460	3 & 4
Coburg, Ravenhall Prison	2/12/2015	1810	3 & 4
South Yarra, St Albans	3/12/2015	1310	4
South Yarra, Ravenhall Prison	4/12/2015	1760	4
	5/12/2015		
	6/12/2015		
	7/12/2015		






South Yarra, St Albans	8/12/2015	1100	3 & 4
Werribee Plaza, St Albans, Coburg	9/12/2015	2370	4
Werribee Plaza, St Albans, Coburg	10/12/2015	1590	4
Coburg	11/12/2015	530	3 & 4
	12/12/2015		
	13/12/2015		
Coburg, St Albans	14/12/2015	630	4
Coburg, St Albans	15/12/2015	230	3 & 4
Ravenhall Prison, St Albans	16/12/2015	1550	3 & 4
South Yarra, South Melbourne	17/12/2015	1580	4
Werribee Plaza, Essendon, South Melbourne, South Yarra, St Albans	18/12/2015	5160	4
	19/12/2015		
	20/12/2015		
Port Melbourne, South Yarra	21/12/2015	1950	4
Ravenhall Prison, South Melbourne	22/12/2015	2020	4
	23/12/2015		
	24/12/2015		
	25/12/2015		
	26/12/2015		
	27/12/2015		
	28/12/2015		
	29/12/2015		
	30/12/2015		
	31/12/2015		
	1/01/2016		
	2/01/2016		
	3/01/2016		
St Albans	4/01/2016	60	3 & 4
St Albans	5/01/2016	20	4
Coburg, St Albans	6/01/2016	790	3 & 4
Coburg	7/01/2016	1080	3 & 4
Coburg	8/01/2016	200	3 & 4
	9/01/2016		
	10/01/2016		
South Melbourne	11/01/2016	430	4
South Melbourne	12/01/2016	750	4
	13/01/2016	0	
South Yarra, Werribee	14/01/2016	1120	4
Ravenhall Prison	15/01/2016	740	4
	16/01/2016		
	17/01/2016		
Ravenhall Prison, South Melbourne	18/01/2016	1050	4
Ravenhall Prison, South Melbourne, South Yarra, onsite BMD	19/01/2016	2210	4
	20/01/2016	0	
Ravenhall Prison, South Yarra, onsite BMD	21/01/2016	1350	4
Ravenhall Prison	22/01/2016	320	4
	23/01/2016		
	24/01/2016		
	25/01/2016		
	26/01/2016		
Ravenhall Prison, St. Albans	27/01/2016	2320	4
	28/01/2016	0	
	29/01/2016	0	
	30/01/2016		
	31/01/2016		
	1/02/2016		
Essendon, South Melbourne, South Yarra	2/02/2016	1810	4
Onsite BMD, Werribee, South Melbourne	3/02/2016	1230	4
Onsite BMD, St. Albans, South Melbourne	4/02/2016	2990	4
Onsite BMD, St. Albans, Boral processed St. Albans	5/02/2016	1880	4
	6/02/2016		
BMD onsite	8/02/2016	180	4
Onsite BMD, St. Albans, South Melbourne, Werribee, Essendon	9/02/2016	1490	4
	10/02/2016		
	11/02/2016		
Onsite BMD, St. Albans, South Melbourne, Essendon	12/02/2016	1240	4
Essendon, onsite BMD, St. Albans	15/02/2016	1120	4
Essendon	16/02/2016	1700	4
Essendon, St. Albans	17/02/2016	630	4
Onsite BMD	18/02/2016	350	4
Onsite BMD	19/02/2016	1640	4

Appendix D – Level 1 Daily Reports

Date	Day	Time on Site	Personnel	Weather	Mobile plant
24/09/2015	Thursday	7:30 – 11:00	James Loucas Sotir Stojcevski- 1 hour	Clearing showers, Max 15°	1 x 623G Scraper



Legend

	Subgrade inspected
	Area excluded
	Topsoil stockpile
	Boulders Stockpile
	Water Pooling

revision	description	drawn	approved	date		drawn	JL		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 1		
						date	24.09.2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Subgrade Inspection	<ul style="list-style-type: none"> Majority of stage 3 indicated on drawing was stripped, free from foreign substances, proof rolled and approved for filling. Once topsoil stockpile is removed from row 6. The area will need to be stripped and proof rolled before fill placement. Grid rows 4, 5 and partially 6 were proof rolled with 623G Scraper. No soft spots were observed. Minor vegetation was found throughout the subgrade which will be removed during the ripping process.
Filling/Compaction	<ul style="list-style-type: none"> No filling took place.
Material	<ul style="list-style-type: none"> No material was carted to site.
Test	<ul style="list-style-type: none"> No tests were conducted.
Comments	<ul style="list-style-type: none"> Rock stockpile located in grid F4 will have to be removed when this area is ready for filling. Water pooling occurring in H4 will need to dry out prior to filling.



Image 1: Scraper proof rolling stage 3



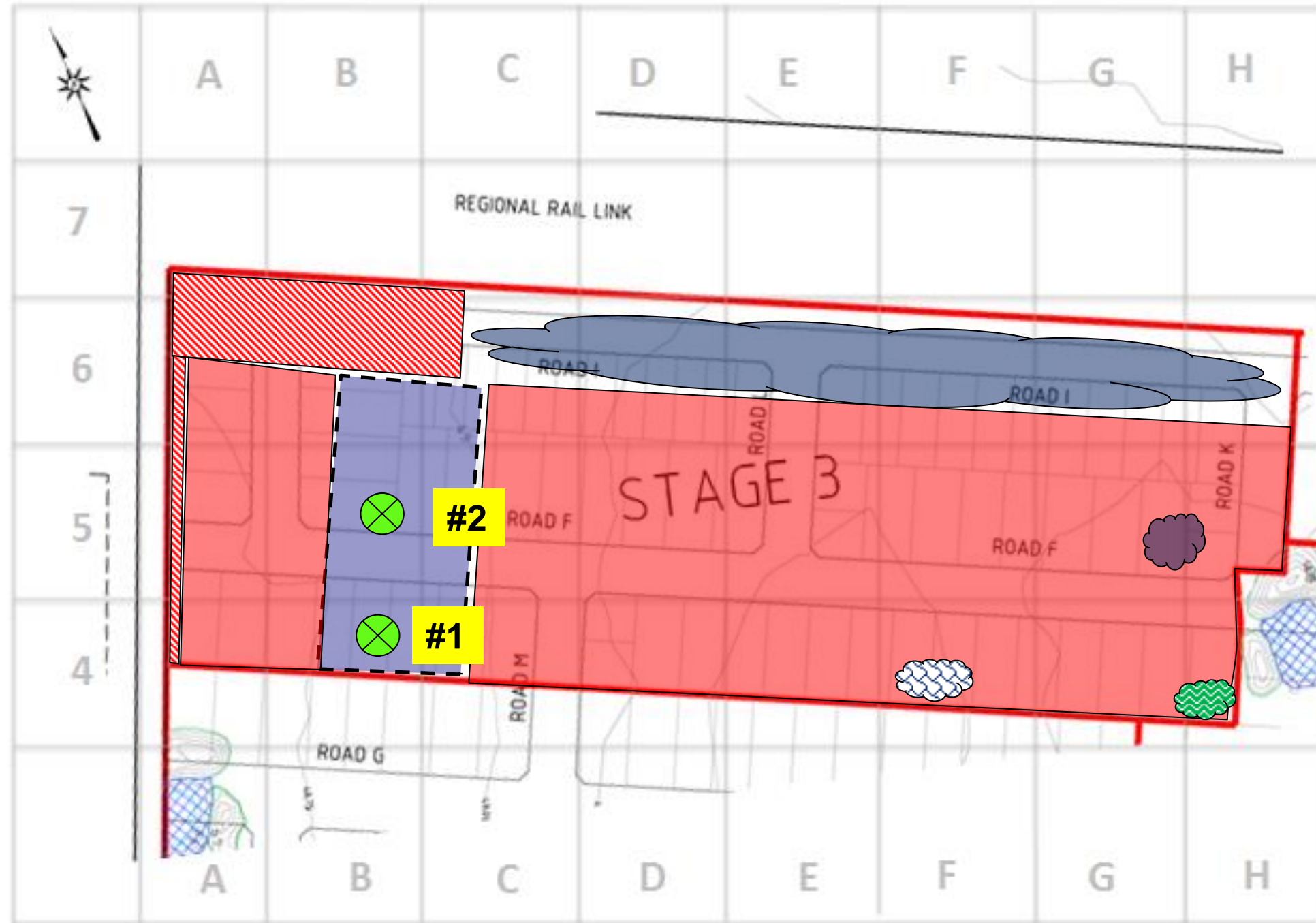
Image 2: Overview of stage 3 (facing west)



Image 3: Water pooling in grid H4

revision	description	drawn	approved	date	drawn	JL		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 1		
					date	24.09.2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
25/09/2015	Friday	7:30 – 15:00	James Loucas- All day	Mostly Sunny, Max 17°	1 x 623G Scraper 1 x 815 Compactor 1 x Water Truck



Legend

	Subgrade inspected
	Layer 1
	Layer placed today
	Area excluded
	Approximate test location
	Topsoil stockpile
	Boulders Stockpile
	Water Pooling

revision	description	drawn	approved	date		drawn	JL		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 1		
						date	25.09.2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Subgrade Inspection	<ul style="list-style-type: none"> Vegetation was removed with compactor over grid column B.
Filling/Compaction	<ul style="list-style-type: none"> Layer one was placed between grid column B and C. Area was compacted grid column B Prior to placing, subgrade was compacted and moisture conditioned.
Material	<ul style="list-style-type: none"> Material was carted from Ravenhall prison. Approximately 1250 m³ compacted was placed.
Test	<ul style="list-style-type: none"> Two tests were conducted on layer 1.
Comments	

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
1	x	B4	1	1.90	28.0	96.0	2.5 Dry	Pass
2	x	B5	1	1.93	23.0	96.5	2.5 Dry	Pass

revision	description	drawn	approved	date	drawn	JL		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 1		
					date	25.09.2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Image 1: Compactor placing layer 1 over grid column C



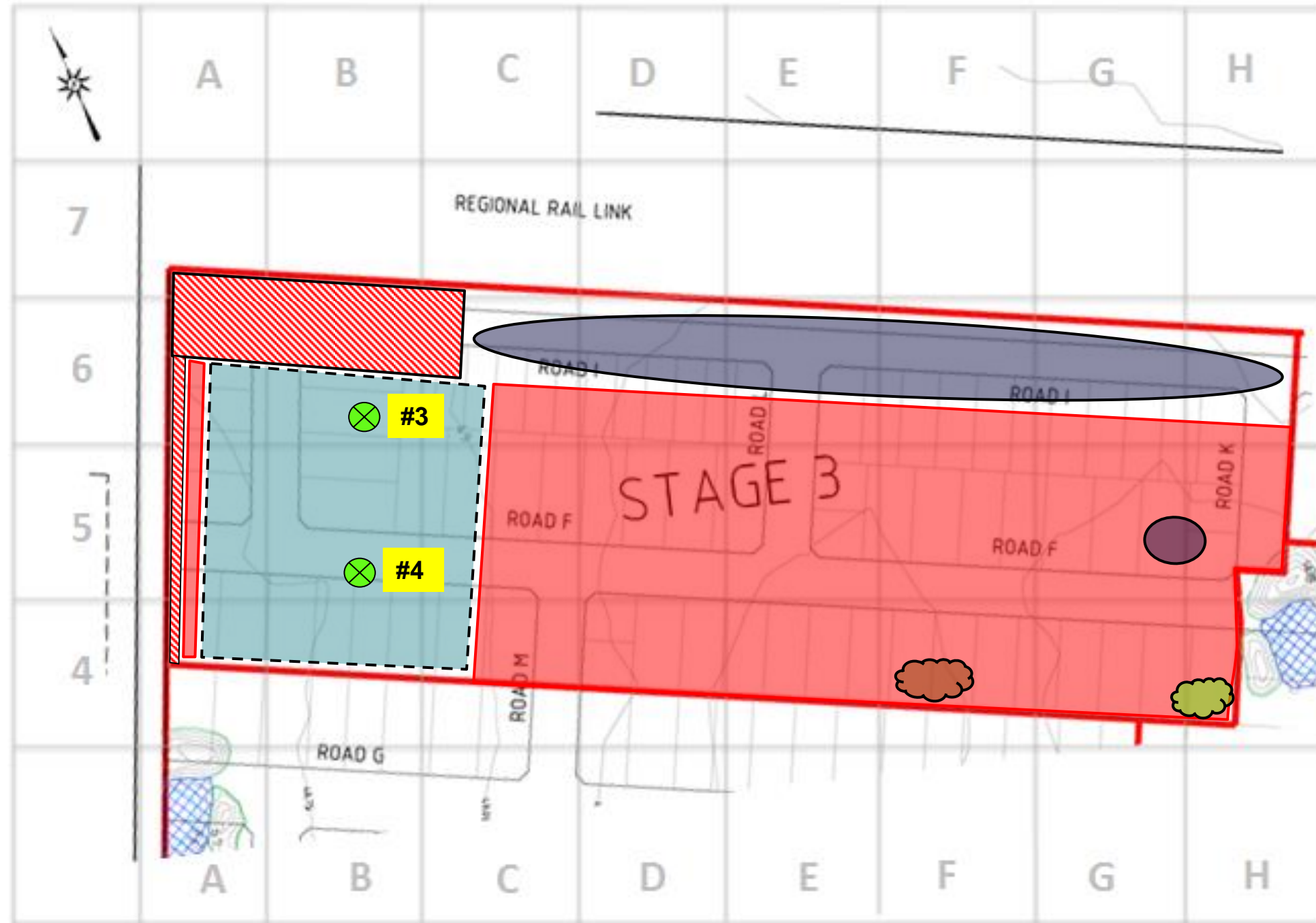
Image 3: Organic roots removed from subgrade with compactor



Image 2: Water truck moisture conditioning subgrade

revision	description	drawn	approved	date		drawn	JL		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 1		
						date	25.09.2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
28/09/2015	Monday	7:30 – 16:00	James Loucas (morning,) Philip Martin (all day)	Partly cloudy, Max 19°	1 x Pad foot roller 1 x 815 Compactor 1 x Water Truck ~10 x Dump trucks



Legend

	Subgrade
	Layer 1
	Layer placed today
	Excluded/un-worked area
	Approximate test location
	Topsoil stockpile
	Boulders Stockpile
	Water Pooling

revision	description	drawn	approved	date		drawn	PM		client:	SPIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 1	
						date	28/09/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Subgrade Inspection	
Filling/Compaction	<ul style="list-style-type: none"> • Compactor and Water Truck compacted and moisture conditioned subgrade in grid column B and A (east). • Compactor placed layer 1 in grid column B and A (east). • Pad-foot Roller compacted grid column B.
Fill/Material	<ul style="list-style-type: none"> • Approximately 10 dump trucks carted fill/material from Ravenhall prison. • Approximately 1000 m³ of fill was placed.
Test	<ul style="list-style-type: none"> • Two tests undertaken on layer 1: one in B6 (south), the other in B5 (south).
Comments	

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
3	x	B6	1	1.99	16.5	98.0	2.5 Dry	Pass
4	x	B5	1	2.01	17.0	98.5	2.5 Dry	Pass

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 1		
					date	28/09/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Compactor placing layer 1 - grid column B



Pad-foot roller compacting layer 1 - grid column B



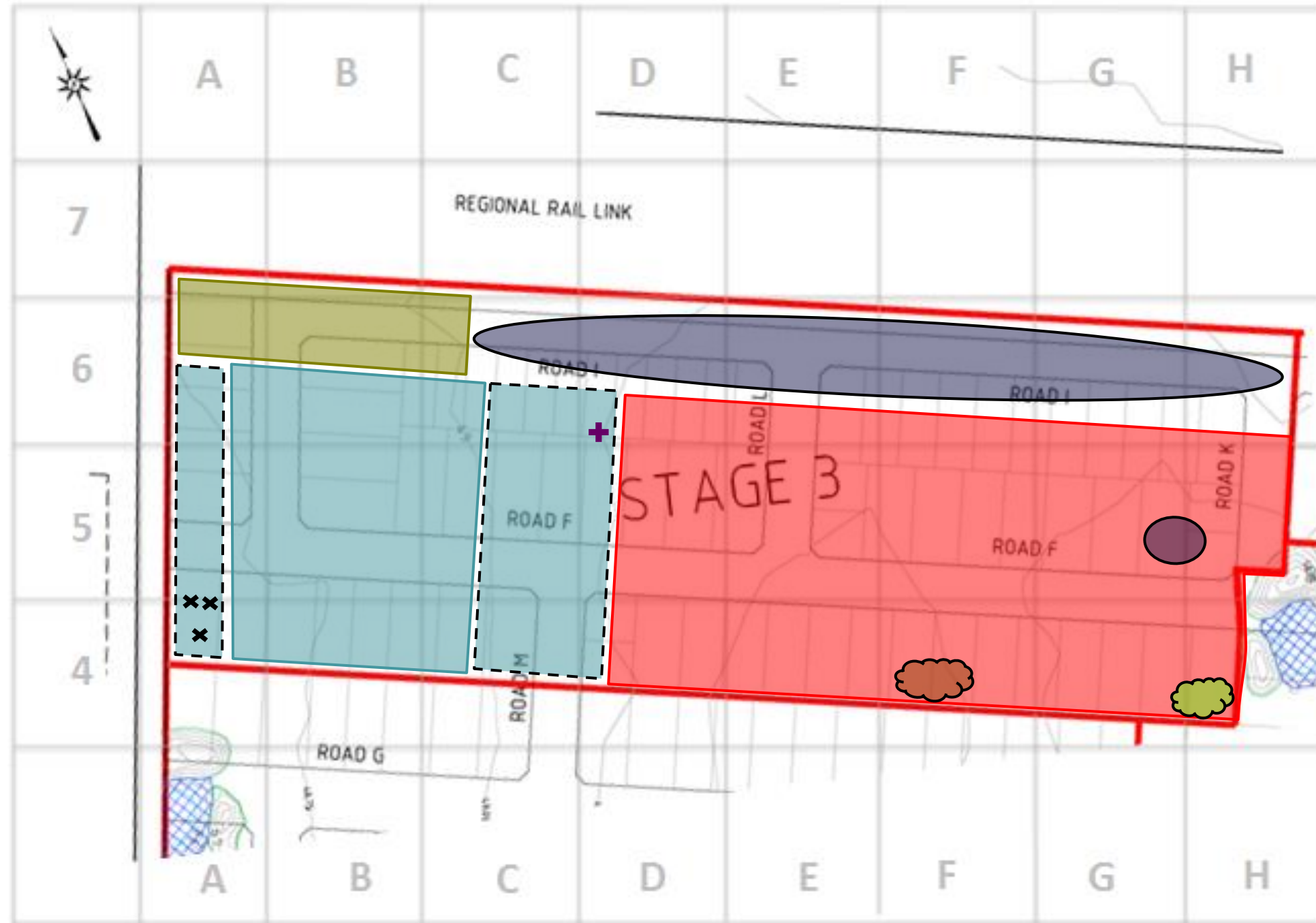
Dump Truck with trailer dumping imported fill ready for placement - grid column B



Water truck moisture conditioning subgrade – grid column B

revision	description	drawn	approved	date		drawn	PM		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 1		
						date	28/09/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
30/09/2015	Wednesday	7:30 – 14:50	Philip Martin (all day)	Scattered showers in the morning then partly cloudy, max 14°	1 x Pad-foot Roller 1 x 815F Compactor 1 x Water Cart ~13 x Dump Trucks



Legend

	Subgrade
	Layer 1
	Layer placed today
	Grassed area
	Topsoil stockpile
	Boulders Stockpile
	Water Pooling
	Removed Tree
	Oversized Boulders

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	30/09/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Subgrade Inspection	<ul style="list-style-type: none"> Minor tree root removed from subgrade in D6 (west-south-west).
Filling/Compaction	<ul style="list-style-type: none"> Compactor prepared/compacted subgrade in Column C and placed layer 1 in Column A and C. Water Cart moisture conditioned subgrade in Column C and layer 1 in Column A and C. Pad-foot Roller partially compacted Column A (2x passes).
Fill/Material	<ul style="list-style-type: none"> Dump trucks carted fill/material from Ravenhall prison. Approximately 1500 m³ of fill was placed. Imported fill to Column A was relatively rocky (some boulders ~300-400mm³) whilst imported fill to Column C was clean (well sorted material with minimal rocks). Majority of boulders (~300-400mm) from Column A (layer 1) were removed, with some boulders still awaiting removal.
Test	<ul style="list-style-type: none"> No tests undertaken.
Comments/On-site Communication	<ul style="list-style-type: none"> Foreman (Paul) notified that some oversize boulders were present/requiring removal in column A. Foreman assured that compactor would remove oversize fill in Column A. Foreman (Paul) notified to presence of organic material/tree root within subgrade in Column D6 (west-south-west).



Boulder in layer 1- A4 (north)



Some oversize boulders (>200mm³) present in fill – Column A



Compactor placing layer 1 – Column A

revision	description	drawn	approved	date	drawn	PM		client:	SPIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	30/09/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Tree root within subgrade – D6 (south-south-west)



Compactor placing layer 1 - Column C



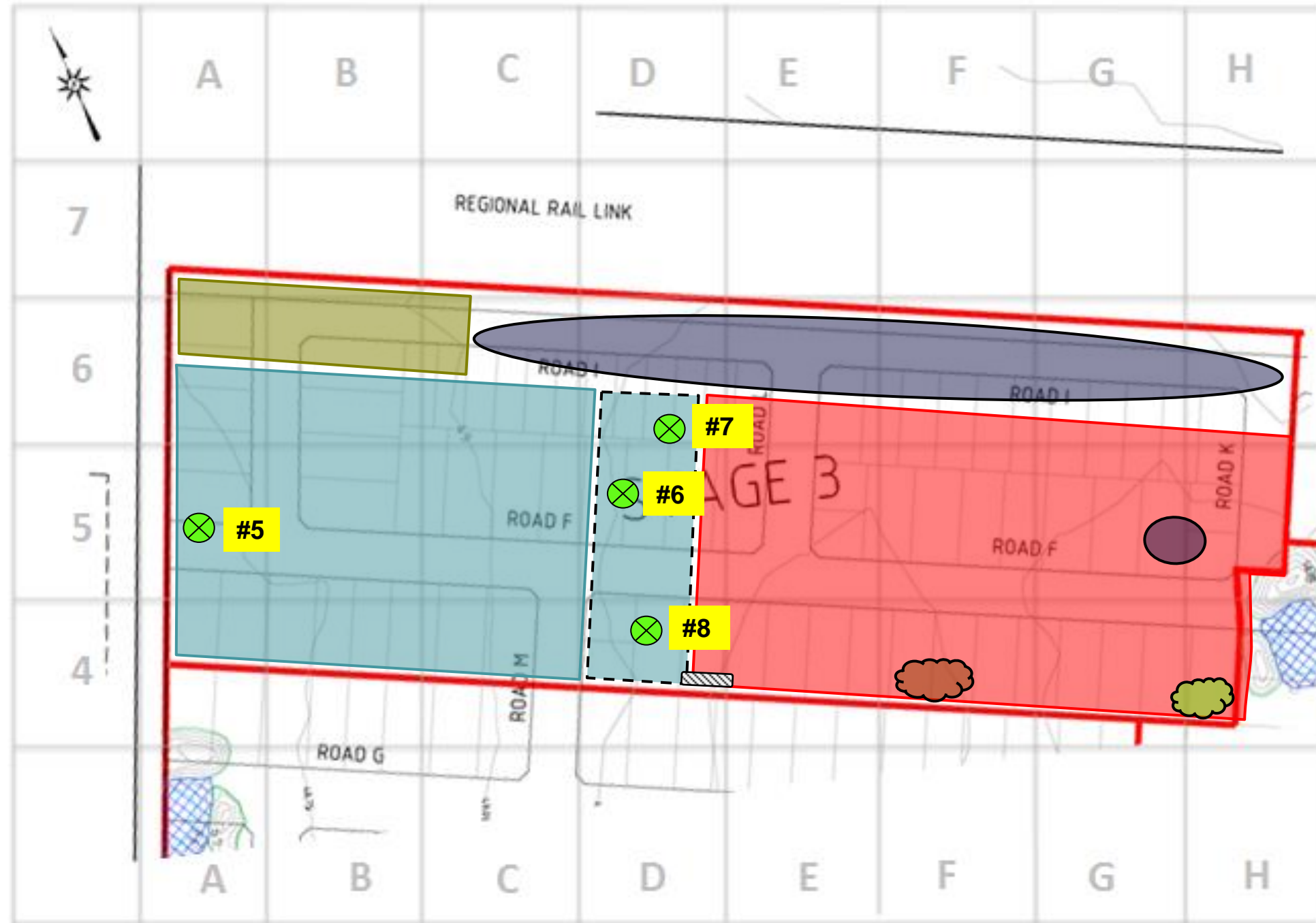
Removed tree root – D6 (west-south-west)



Water truck moisture conditioning subgrade – Column C

revision	description	drawn	approved	date		drawn	PM		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	30/09/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
01/10/2015	Thursday	7:30 – 14:50	Sotir Stojcevski (morning), Philip Martin (all day)	Sunny, max 22°C	1 x Pad-foot Roller 1 x 815F Compactor 1 x Water Cart ~10 x Dump Trucks



Legend

	Subgrade
	Layer 1
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Water pooling
	Removed boulders

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	01/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Subgrade Inspection	
Filling/Compaction	<ul style="list-style-type: none"> • Compactor and Water Cart roughed-up/compacted and moisture conditioned subgrade in grid column D. • Compactor placed layer 1 in grid column D. • Pad-foot Roller compacted layer 1 in grid column A (west-south-west) and D. • Compactor removed boulders from grid column D during layer 1 placement. Boulders were placed on south-western boundary.
Fill/Material	<ul style="list-style-type: none"> • Approximately 10 dump trucks with trailers carted fill/material from Ravenhall prison. • Approximately 950m³ of fill/material was placed.
Test	<ul style="list-style-type: none"> • A total of 4 tests were undertaken on layer 1. Tests were undertaken in A5 (west-south-west), D5 (west-south-west), D6 (south-south-west), and D4 (north).
Comments/On-site Communication	<ul style="list-style-type: none"> • Foreman (Paul) was notified that subgrade in grid column D required more roughing-up/passes by Compactor prior to layer 1 placement.

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
5	x	A5 (WSW)	1	1.90	1.65	14.5	95.0	2.0 Dry	Pass
6	x	D5 (WSW)	1	1.96	1.70	15.0	104.0	5.0 Dry	Fail
7	x	D6 (SSW)	1	1.97	1.71	15.0	97.5	2.5 Dry	Pass
8	x	D4 (N)	1	2.08	1.80	16.0	108.5	3.5 Dry	Fail

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	01/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Dump trucks unloading fill – column D



Compactor roughing-up/compacting subgrade prior to layer 1 placement - column D



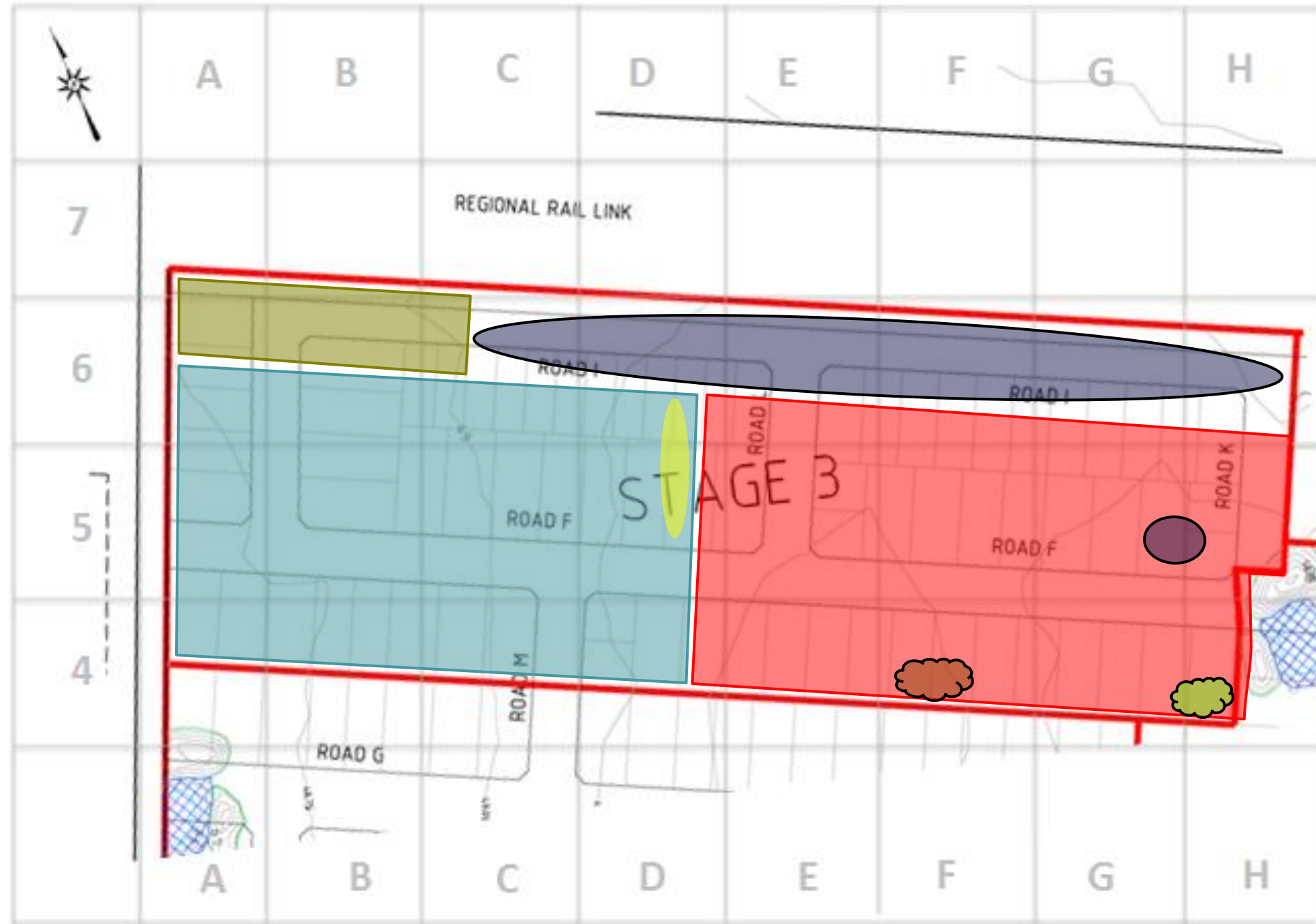
Pad-foot Roller compacting layer 1 – column A



Water Cart moisture conditioning subgrade prior to/during layer 1 placement – column D

revision	description	drawn	approved	date		drawn	PM		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	01/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
06/10/2015	Tuesday	7:30 – 13:20	Philip Martin (all day)	Sunny with strong hot northerly winds, max 35°C	4 x Dump Trucks



Legend

	Subgrade
	Layer 1
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Water pooling
	Fill stockpile

revision	description	drawn	approved	date		drawn	PM		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	06/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Subgrade Inspection	
Filling/Compaction	
Fill/Material	<ul style="list-style-type: none"> • 4 Dump Trucks (2 with trailers, 2 without) imported a dry gravelly clay fill/material from Caroline Springs. • Approximately 150ton of loose fill/material was stockpiled in D5 (east-north-east) and D6 (south).
Test	<ul style="list-style-type: none"> • No tests undertaken.
Comments/On-site Communication	

revision	description	drawn	approved	date		drawn	PM		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	06/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				



Strong dry winds blowing fill/material off-site




Stockpiled fill - column D



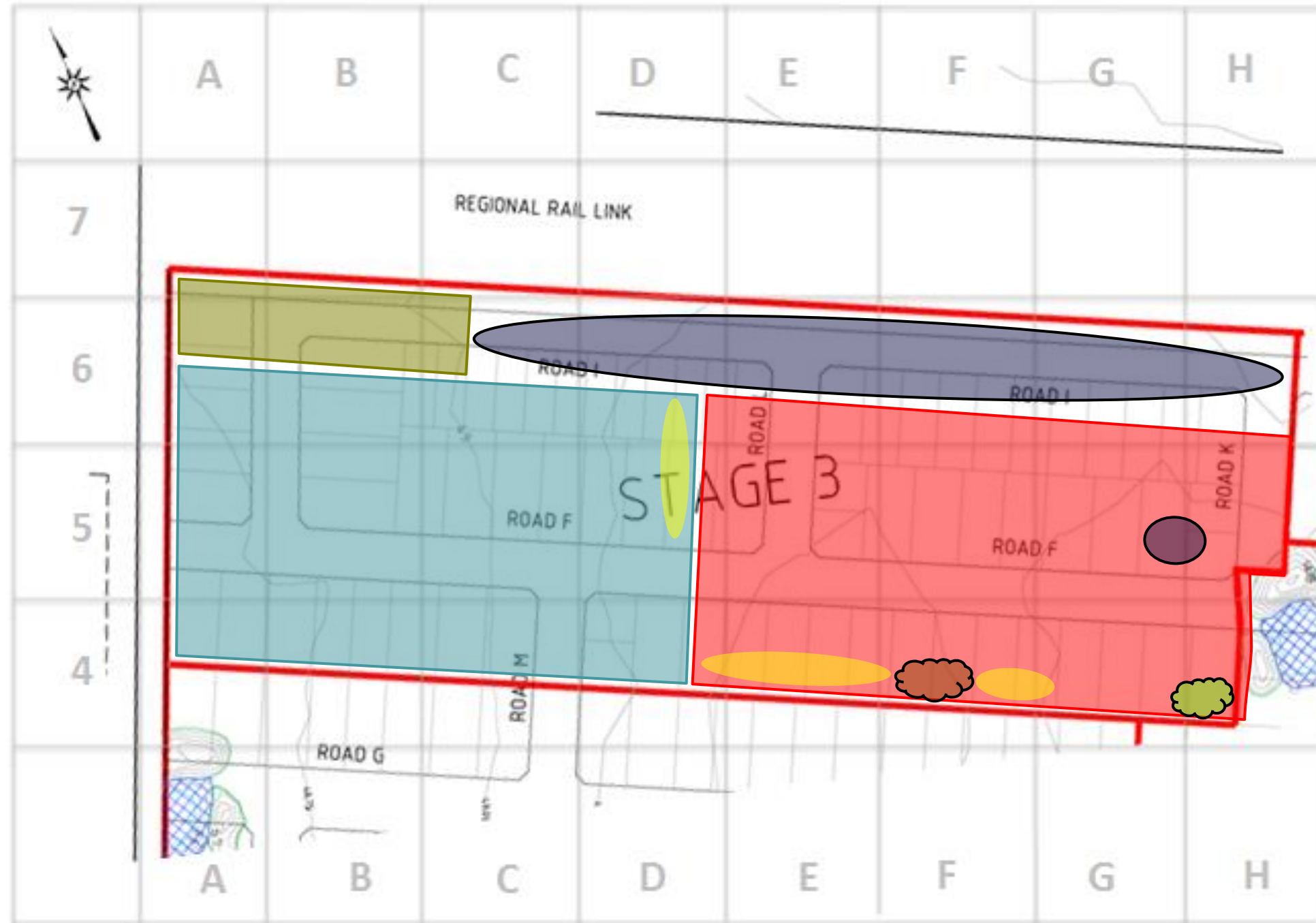
Stockpiled fill – column D











Dump Trucks importing/unloading fill – column D

revision	description	drawn	approved	date		drawn	PM		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	06/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
07/10/2015	Wednesday	7:30 – 13:30	Philip Martin	Partly cloudy with moderate to strong southerly winds, max 17°C	2 x Dump Truck 3 x Dump Truck with trailer 1 x Water Cart



Legend

	Subgrade
	Layer 1
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Water pooling
	Stockpiled fill

revision	description	drawn	approved	date		drawn	PM		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	07/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Subgrade Inspection	
Placing/Compaction	<ul style="list-style-type: none"> Water Cart moisture conditioned stockpiled fill in D5 (north-east), D6 (south-west), E4 and F4 (east-south-east).
Fill/Material	<ul style="list-style-type: none"> Dump Trucks imported dry gravelly clay fill from Caroline Springs. Dump Trucks with trailers imported dry gravelly clay fill from Werribee. Werribee fill had a high volume of oversize boulders present (>200mm). Approximately 210ton of loose fill was stockpiled on the subgrade in E4 and F4 (east-south-east).
Test	<ul style="list-style-type: none"> No tests undertaken.
Comments/On-site Communication	<ul style="list-style-type: none"> At 11:20AM, foreman (Paul) stopped importing fill from Werribee due to high volume of oversize boulders (>200mm).

revision	description	drawn	approved	date	drawn	PM		client:	SPIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	07/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Dry gravelly clay fill (imported from Caroline Springs) - F4 (east-south-east)




Dry gravelly clay fill with oversize boulders present (imported from Werribee) - E4



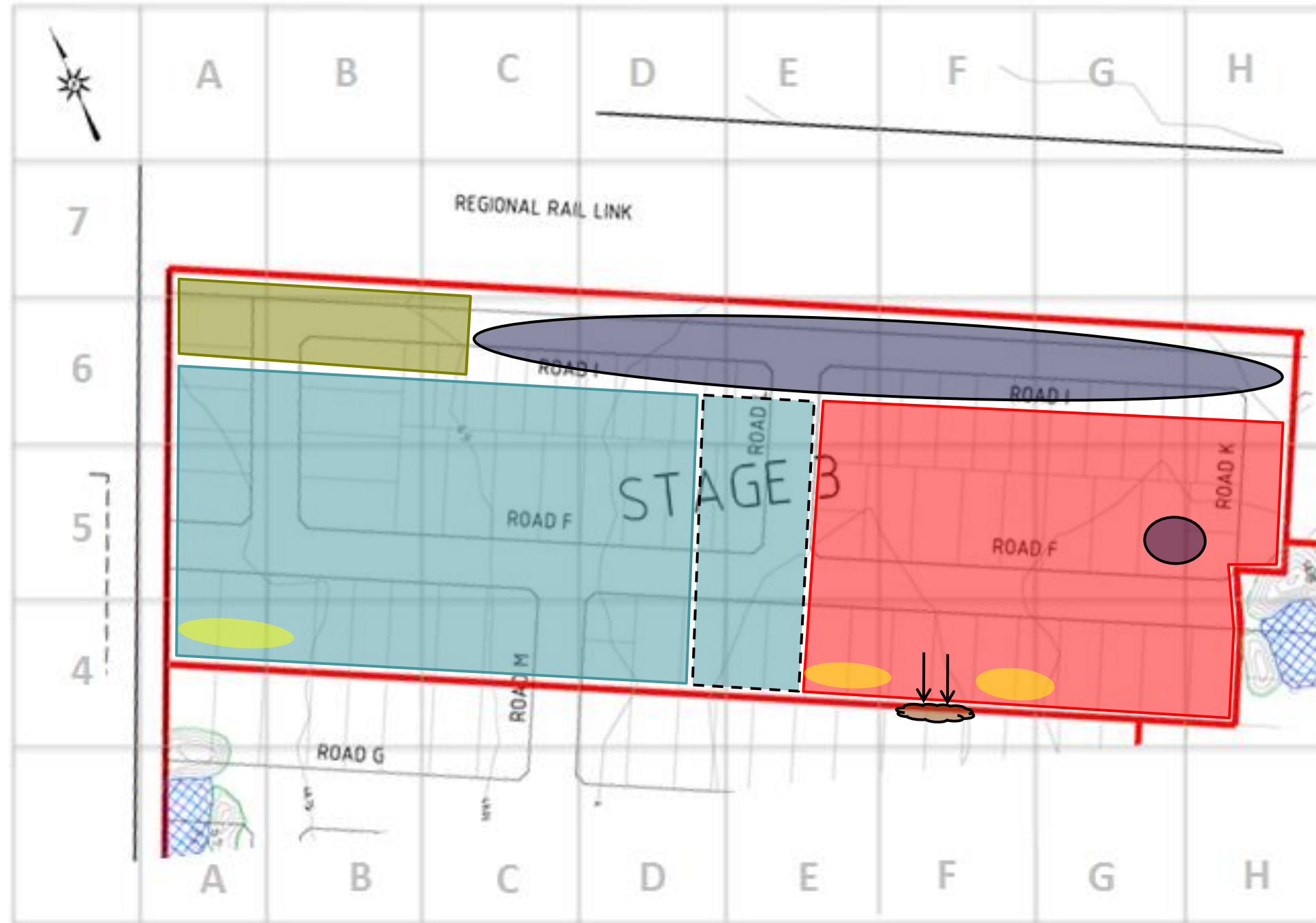
Dump truck unloading/stockpiling fill – E4 (west-north-west)



Water Cart moisture conditioning stockpiled fill - D5 (north-east)

revision	description	drawn	approved	date		drawn	PM		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	07/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
08/10/2015	Thursday	7:30 – 15:00	Philip Martin	Mostly sunny, max 22°C	5 x Dump Truck (tandem) 3 x Dump Truck with trailer 1 x Water Cart 1 x Compactor



Legend

	Subgrade
	Layer 1
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill

revision	description				drawn	approved	date	drawn	PM		client:	SPIRE	
								approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	08/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection	
Placing/Compaction	<ul style="list-style-type: none"> Water Cart moisture conditioned subgrade and fill stockpile in grid column D (east-south-east) and E (west-north-west). Compactor roughed-up/compacted subgrade in grid column D (east-south-east) and E (west-north-west) prior to placement of layer 1. Compactor placed layer 1 in grid column D (east-south-east) and E (west-north-west). Placement involved a 2 stage process: <ol style="list-style-type: none"> 1) Pushing-out 100mm sublayer, moisture conditioning, compaction. 2) Pushing-out 200mm sublayer (ontop of 100mm layer), moisture conditioning, compaction. Compactor pushed-out boulders in grid column F4 (south-south-west).
Fill/Material	<ul style="list-style-type: none"> Dump Trucks (tandem) imported clay fill from St Albans. Dump Trucks with trailers imported gravelly clay fill from Caroline springs. Approximately 870m³ of fill/material was placed in grid column D (east-south-east) and E (west-north-west) using imported and stockpiled fill. Approximately 880ton of loose fill was imported onto site. Fill was stockpiled in A4 (north-east) and grid column D (east-south-east).
Test	<ul style="list-style-type: none"> No tests undertaken.
Comments/On-site Communication	<ul style="list-style-type: none"> 10:00AM: St Albans fill quality assessed and passed by foreman and Level 1. 11:15AM: Dump Trucks (tandem) stopped importing fill from St Albans (due to presence of ballast rock at quarry).



Dump Truck unloading fill – E5 (south-west)



Gravelly clay fill (imported from Caroline Springs) – E6 (south-south-west)



Clay fill (imported from St Albans) – A4 (north-west)

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	08/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Water Cart moisture conditioning - column D (east-south-east) and E (west-north-west).



Compactor roughing-up/compacting subgrade - column D (east-south-east) and E (west-north-west).



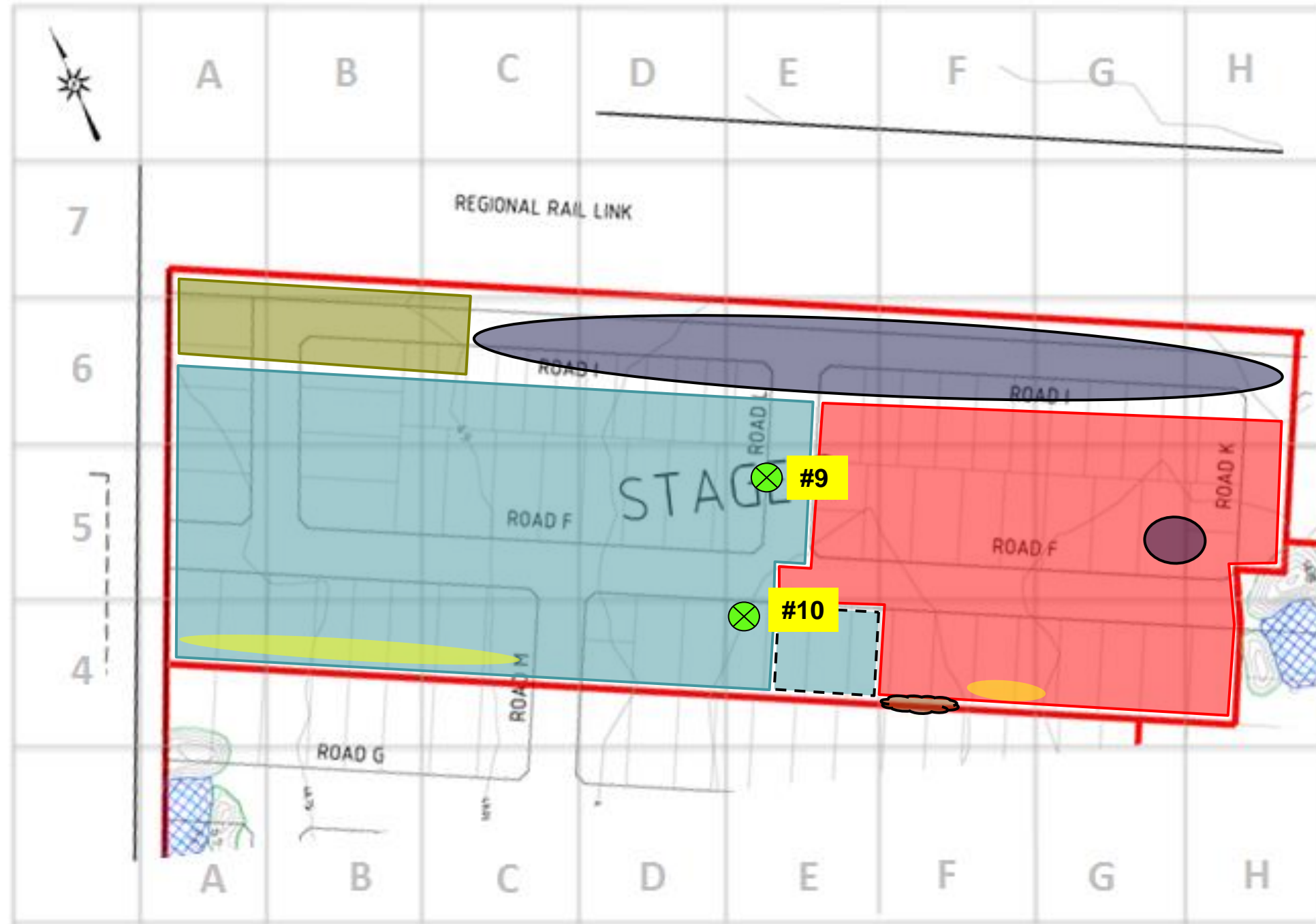
Compactor pushing-out boulders - F4 (south-south-west).



Compactor placing layer 1 - column D (east-south-east) and E (west-north-west).

revision	description	drawn	approved	date		drawn	PM		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	08/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
09/10/2015	Friday	7:30 – 15:00	Sotir Stojcevski (early morning), Philip Martin (all day)	Mostly sunny, max 29°C	5 x Dump Truck (tandem) 3 x Dump Truck with trailer 1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	09/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Subgrade Inspection	
Placing/Compaction	<ul style="list-style-type: none"> Water Cart moisture conditioned subgrade and layer 1 in grid E4 (west-north-west). Compactor roughed-up/compacted subgrade in grid E4 (west-north-west) prior to placement of layer 1. Compactor placed layer 1 in grid E4 (west-north-west). Padfoot Roller compacted layer 1 in grid column D (east-south-east) and E (west-north-west).
Fill/Material	<ul style="list-style-type: none"> Dump Trucks (tandem) imported clay fill from St Albans. Dump Trucks with trailers imported gravelly clay fill from Caroline Springs. Approximately 300 m³ of fill was placed in grid E4 (west-north-west). Approximately 820 m³ of loose fill was imported onto site. Fill was stockpiled in E4 (north), B4 and C4 (west-north-west). Compactor removed foreign material from St Albans fill.
Test	<ul style="list-style-type: none"> A total of 2 tests were undertaken on layer 1. Tests were undertaken in E4 (north) and E5 (north).
Comments/On-site Communication	<ul style="list-style-type: none"> 10:00AM: Foreman notified St Albans of the unsuitable quality of their fill (due to presence of foreign material). Contaminants/foreign material was removed from lot.

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
9	x	E5 (N)	1	2.04	1.74	17.5	97.0	0.0	Pass
10	x	E4 (N)	1	2.09	1.82	15.0	100.5	0.0	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	09/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Compactor roughing-up/compacting subgrade – E4 (west-north-west)



Compactor placing layer 1- E4 (west-north-west).



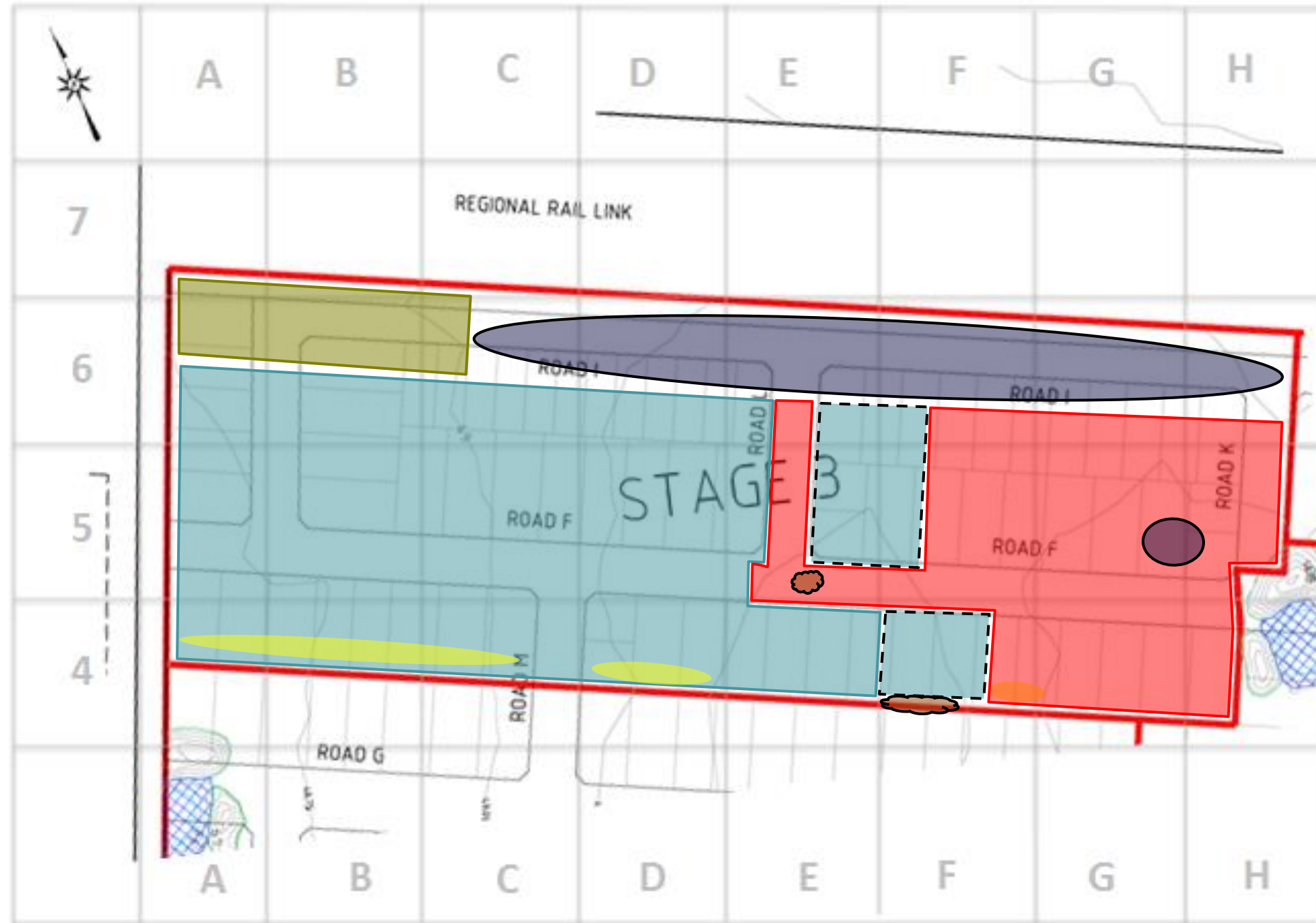
Padfoot Roller compacting layer 1 - column D (east-south-east) and E (west-north-west).



Stockpiled clean fill (A) – C4 (west-north-west), and contaminated fill (B) - E4 (south-east).

revision	description	drawn	approved	date		drawn	PM		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	09/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
10/10/2015	Saturday	7:05 – 12:30	Philip Martin	Mostly sunny, max 30°C	10 x Dump Truck (tandem) 8 x Dump Truck with trailer 1 x Water Cart 1 x Compactor



Legend

	Subgrade
	Layer 1
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill

revision	description	drawn	approved	date		drawn	PM		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	10/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Subgrade Inspection	
Placing/Compaction	<ul style="list-style-type: none"> Water Cart moisture conditioned subgrade and layer 1 in grid E5 (east)/E6 (south-south-east)/F5 (west-north-west)/F6(west-south-west) and F4 (north). Compactor roughed-up/compacted subgrade in grid E5 (east)/E6 (south-south-east)/F5 (west-north-west)/F6(west-south-west) and F4 (north) prior to placement of layer 1. Compactor placed layer 1 in grid E5 (east)/E6 (south-south-east)/F5 (west-north-west)/F6(west-south-west) and F4 (north). Compactor stockpiled oversize fill (boulders >200mm) in E5 (south).
Fill/Material	<ul style="list-style-type: none"> Dump Trucks (tandem) imported clay fill from St Albans (placed in grid F4 (north)/E6 (south-south-east) and stockpiled in D4 (north)). Dump Trucks with trailers imported gravelly clay fill from Werribee (placed in E5 (east)/E6 (south-south-east)/F5 (west-north-west)/F6(west-south-west)). Approximately 660 m³ of fill was placed in E5 (east)/E6 (south-south-east)/F5 (west-north-west)/F6(west-south-west), and 338 m³ in F4 (north). Approximately 1500 m³ of loose fill was imported onto site.
Test	<ul style="list-style-type: none"> No tests undertaken
Comments/On-site Communication	<ul style="list-style-type: none"> 8:30AM: Oversize fill (boulders >200mm) detected in St Albans fill. Oversize fill removed from lot. Foreman (Paul) notified St Albans to reduce oversize material in fill. Foreman (Paul) organised for tandems to stockpile St Albans fill in D4 (west-north-west) to most effectively monitor its quality prior to placement.



St Albans gravelly clay fill with some oversize - E6 (south-south-east)



Poorly sorted gravelly/oversize fill from St Albans - E6 (south-south-east)



St Albans fill stockpiled for quality control D4 (north)

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	10/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Compactor placing layer 1 – F4 (north)



Water Cart moisture conditioning subgrade - E5 (east)/E6 (south-south-east).



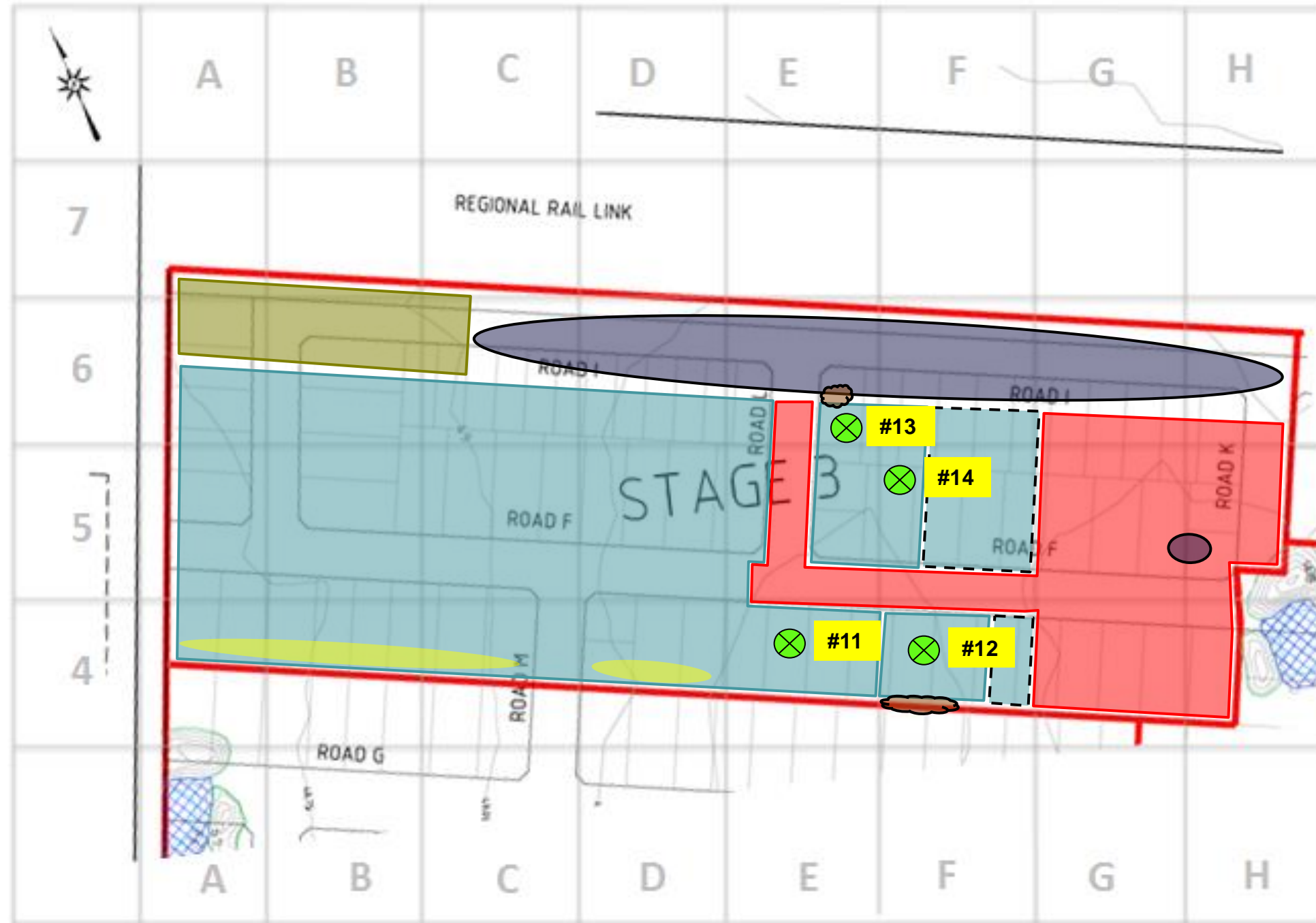
Dump Truck with trailer unloading fill - F6(west-south-west).



Water Cart moisture conditioning subgrade F5 (west-north-west)/F6(west-south-west).

revision	description	drawn	approved	date		drawn	PM		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	10/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
12/10/2015	Monday	7:30 – 15:20	Philip Martin	Cloudy, max 16°C	5 x Dump Truck (tandem) 6 x Dump Truck with trailer 1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Field density test

revision	description	drawn	approved	date		drawn	PM		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	12/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Subgrade Inspection	
Placing/Compaction	<ul style="list-style-type: none"> • Compactor roughed-up/compacted subgrade in grid F6 (south), F5 (north-east) and F4 (north-east) prior to placement of layer 1. • Compactor placed layer 1 in grid F6 (south), F5 (north-east) and F4 (north-east). Placement involved a 2 stage process: <ol style="list-style-type: none"> 1) Pushing-out 100mm sublayer, moisture conditioning, roughing up/compaction. 2) Pushing-out 200mm sublayer (ontop of 100mm sublayer), moisture conditioning, compaction. • Water Cart moisture conditioned subgrade and layer 1 in grid F6 (south), F5 (north-east) and F4 (north-east). • Padfoot Roller compacted layer 1 in grid E4 (north-north-east), F4 (north), E5 (east), E6 (south-south-east), F5 (west-north-west), and F6 (west-south-west).
Fill/Material	<ul style="list-style-type: none"> • Dump Trucks (tandem) imported clay fill from St Albans (placed in grid F4 (north-east)). • Dump Trucks with trailers imported silty clay fill with some fine gravel from Werribee (placed in grid F6 (south) and F5 (north-east)). • Approximately 660 m³ of fill was placed in grid F6 (south), F5 (north-east), and 150 m³ in F4 (north-east). • Approximately 1400 m³ of loose fill was imported onto site.
Test	<ul style="list-style-type: none"> • A total of 4 tests were undertaken on layer 1. Tests were undertaken in E4 (north), F4 (north), F6 (south-south-east), and F5 (north).
Comments/On-site Communication	Test numbers #12 and #14 were marginally outside the specified moisture content limit 3% of OMC. Coffey's PM is approving these 2 test results based on earthworks contractor further moisture conditioning the Layer 1 prior to placement of Layer 2.

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
11	x	E4 (N)	1	2.00	1.70	17.5	106.0	5.0 dry	Fail
12	x	F4 (N)	1	2.07	1.74	19.0	108.0	3.5 dry	Pass*
13	x	E6 (SSE)	1	2.00	1.65	21.0	105.5	3.0 dry	Pass
14	x	F5 (N)	1	1.82	1.49	22.5	100.0	3.5 dry	Pass*

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	12/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Padfoot Roller compacting layer 1 – E5 (east)/E6 (south-south-east)/F5 (west-north-west)/F6(west-south-west).



St Albans clay fill - F4 (north-east).



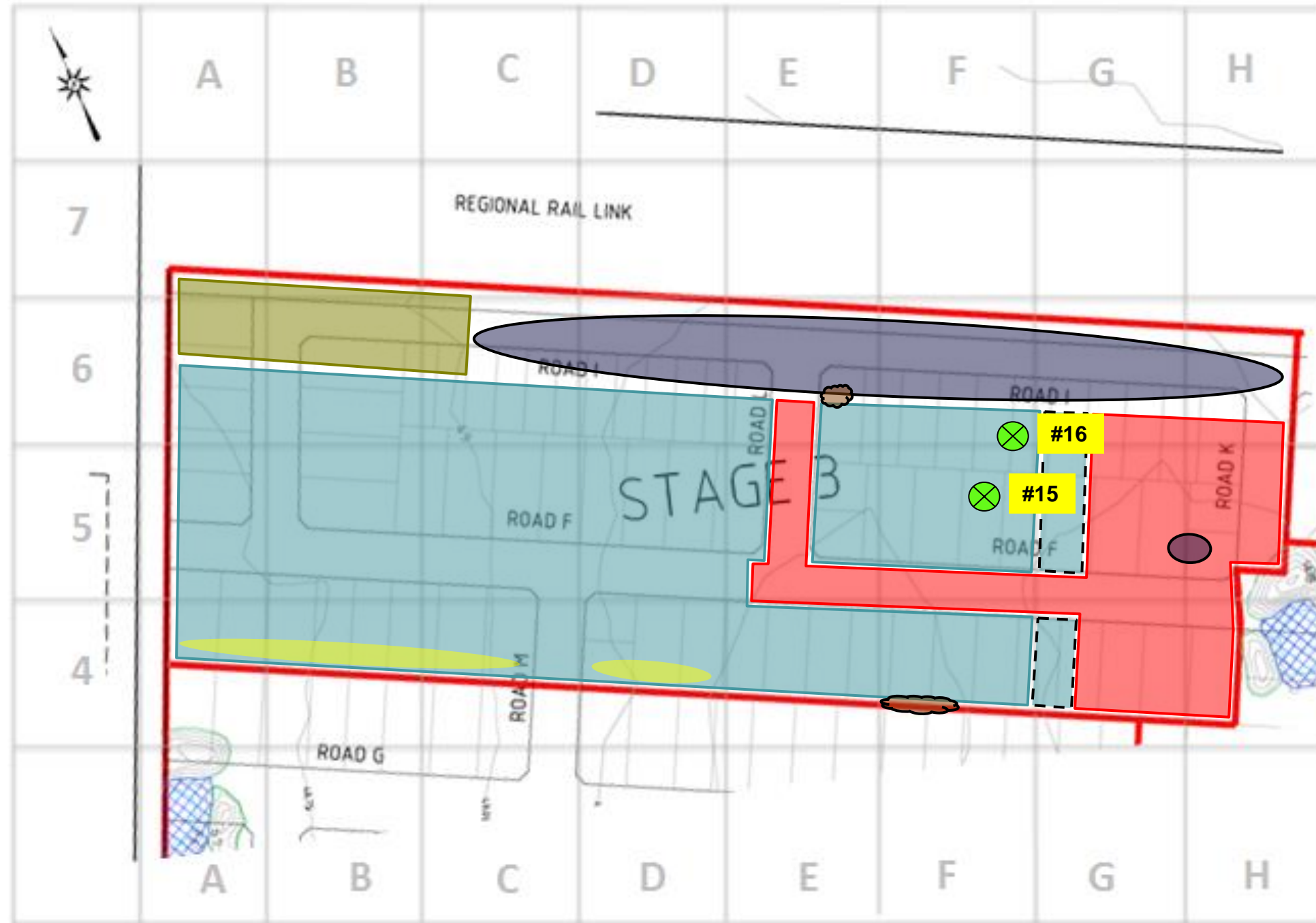
Compactor placing layer 1 – F6 (south)



Compactor roughing up/compacting subgrade (A) and 100mm sublayer (B) - F6 (south), F5 (north-east) and F4 (north-east).

revision	description	drawn	approved	date		drawn	PM		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	12/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
13/10/2015	Tuesday	7:30 – 14:50	Philip Martin	Partly cloudy, max 20°C	3 x Dump Truck (tandem) 8 x Dump Truck with trailer 1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Field density test

revision	description	drawn	approved	date	drawn	PM		client:	SPIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	13/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Subgrade Inspection	
Placing/Compaction	<ul style="list-style-type: none"> • Compactor roughed-up/compacted subgrade in grid G6 (south-west), G5 (west-north-west) and G4 (north-west) prior to placement of layer 1. • Compactor placed layer 1 in grid G6 (south-west), G5 (west-north-west) and G4 (north-west). Placement involved a 2 stage process: <ol style="list-style-type: none"> 1) Pushing-out 100mm sublayer, moisture conditioning, roughing up/compaction. 2) Pushing-out 200mm sublayer (ontop of 100mm sublayer), moisture conditioning, compaction. • Water Cart moisture conditioned subgrade and layer 1 in grid G6 (south-west), G5 (west-north-west) and G4 (north-west). • Padfoot Roller compacted layer 1 in grid F6 (south) and F5 (north-east).
Fill/Material	<ul style="list-style-type: none"> • Dump Trucks (tandem) imported clay fill from St Albans (placed in grid G4 (north-west)). • Dump Trucks with trailers imported silty clay fill with some fine gravel from Vinedex Sunshine (placed in grid G6 (south-west), G5 (west-north-west)). • Approximately 248 m³ of fill was placed in grid G6 (south-west)/G5 (west-north-west), and 113 m³ in G4 (north-west) . • Approximately 650 m³ of loose fill was imported onto site.
Test	<ul style="list-style-type: none"> • A total of 2 tests were undertaken on layer 1. Tests were undertaken in F5 (east) and F6 (south-south-east).
Comments/On-site Communication	<ul style="list-style-type: none"> • Foreman (Paul) informed Level 1 that Vinedex Sunshine had a clean fill certificate.

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
15	x	F5 (east)	1	2.12	1.88	13.0	101.5	2.0 dry	Pass
16	x	F6 (south-south-east)	1	2.12	1.84	15.0	103.5	2.0 dry	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	13/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Compactor roughing up/compacting subgrade - G6 (south-west) and G5 (west-north-west).



Vinedex Sunshine silty clay fill - G6 (south-west).



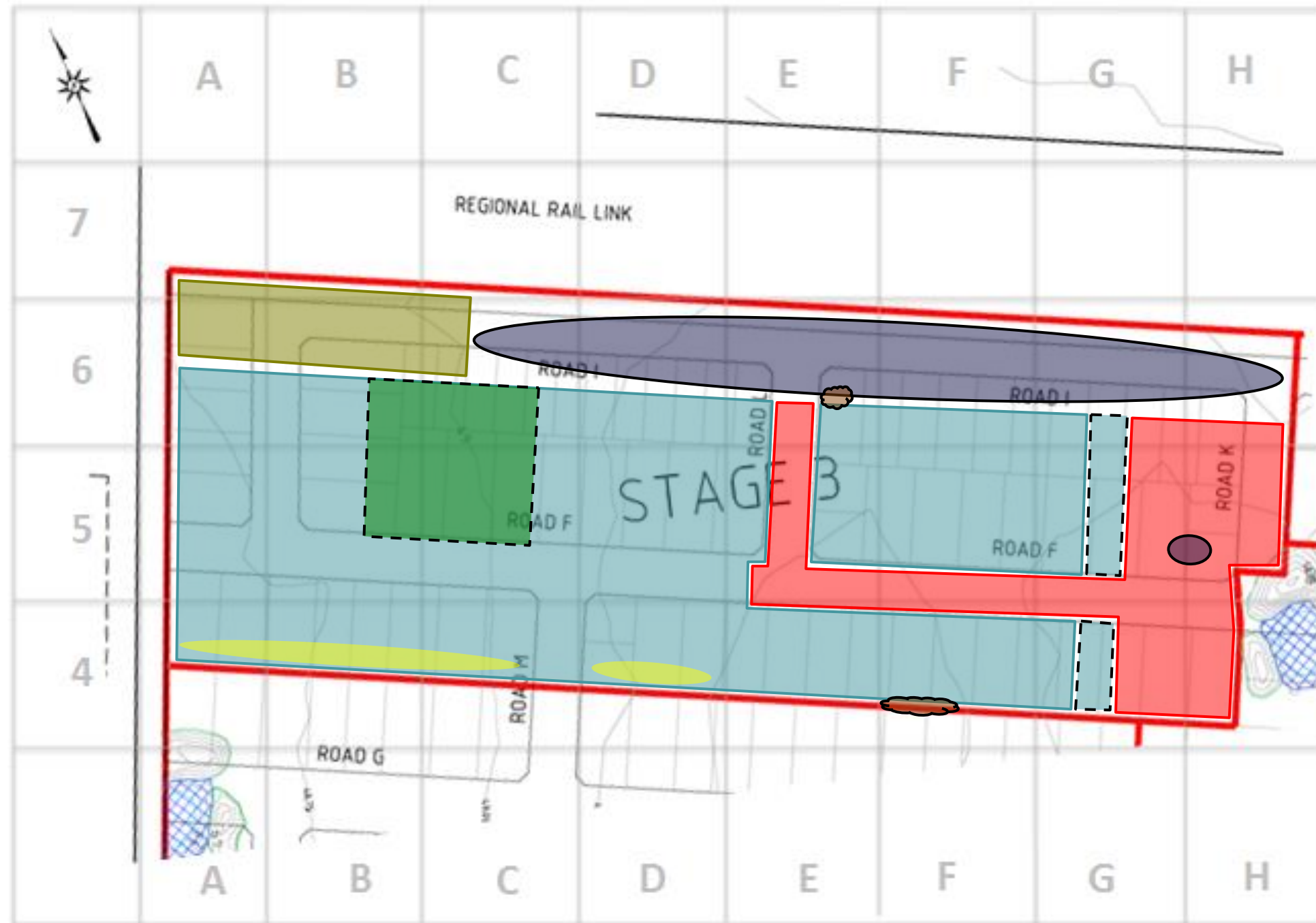
Dump Truck (tandem) unloading St Albans fill- G4 (north-west).



Water Cart moisture conditioning 100mm sublayer (A) - G6 (south-west), and layer 1 (B) F5 (north-east).

revision	description	drawn	approved	date		drawn	PM		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	13/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
14/10/2015	Wednesday	7:30 – 15:00	Philip Martin all day Sotir in morning	Mostly sunny, max 29°C	1 x Dump Truck (tandem) 15 x Dump Truck with trailer 1 x Water Cart 1 x Compactor 1 x Padfoot Roller 1 x Grader



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	14/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	
Placing/Compaction	<ul style="list-style-type: none"> • Compactor roughed-up/compacted layer 1 in grid C5 (north), C6 (south-west), B6 (south-east), and B5 (north-east) prior to placement of layer 2, and subgrade in grid G5 (north-west), G6 (south-west), and G4 (north) prior to placement of layer 1. • Compactor and Grader placed layer 1 in grid C5 (north), C6 (south-west), B6 (south-east), B5 (north-east), G5 (north-west), G6 (south-west), and G4 (north). • Water Cart moisture conditioned subgrade and layer 1 in grid G5 (north-west)/G6 (south-west)/G4 (north), and layer 1 and 2 in grid C5 (north)/C6 (south-west)/B6 (south-east)/B5 (north-east). • Padfoot Roller compacted layer 1 (2-3 passes) in grid E4 (north-north-east), F4 (north-north-east), and G4 (west-north-west). • Grader ripped/reworked layer 1 in grid E4 (north-north-east), F4 (north-north-east), and G4 (west-north-west). Ripping process involved: initial rip, moisture condition, deeper rip, moisture condition.
Fill/Material	<ul style="list-style-type: none"> • Dump Truck (tandem) imported clay fill from St Albans (placed in grid C6 (south-west)). • Dump Trucks with trailers imported silty clay fill with some fine gravel from Vinedex Sunshine and gravelly clay fill from Ravenshall Prison (placed in grid C5 (north), C6 (south-west), B6 (south-east), B5 (north-east)). • Approximately 1122 m³ of fill was placed in grid C5 (north)/C6 (south-west)/B6 (south-east)/B5 (north-east); 198 m³ in G5 (north-west)/G6 (south-west); and 90 m³ in G4 (north). • Approximately 2300 m³ of loose fill was imported onto site.
Test	<ul style="list-style-type: none"> • No tests undertaken.
Comments/On-site Communication	<ul style="list-style-type: none"> • Failed tests 8, 12, and 14 were passed by project manager (Sotir). It was noted that tests being by 0.5% Moisture Variation (e.g. 3.5 dry) were marginally outside the specified moisture limit. Contractor was advised to moisture condition the layers prior to placement of the next layer.



Grader ripping/reworking layer 1 – E4 (north-north-east), F4 (north-north-east), and G4 (west-north-west).



Water Cart moisture conditioning layer 1 – E4 (north-north-east), F4 (north-north-east), and G4 (west-north-west).



Padfoot Roller compacting layer 1 – E4 (north-north-east), F4 (north-north-east), and G4 (west-north-west).

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	14/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Grader placing layer 2 - C5 (north), C6 (south-west), B6 (south-east), and B5 (north-east).



Layer 1 moisture condition assessed - E4 (north-north-east), F4 (north-north-east), and G4 (west-north-west)



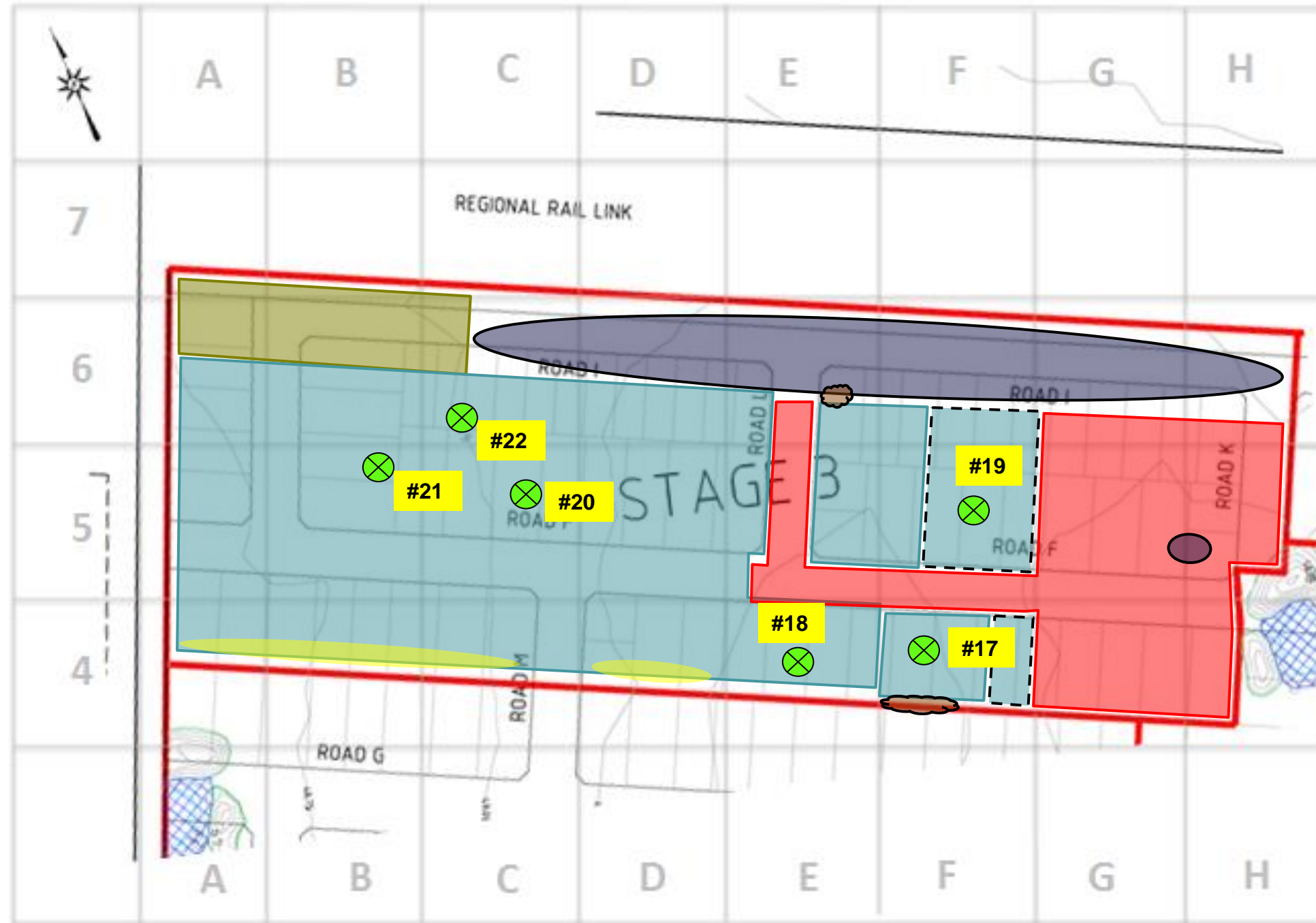
Compactor roughing up/compacting layer 2 - C5 (north), C6 (south-west), B6 (south-east), and B5 (north-east).



Water Cart moisture conditioning subgrade prior to placement of layer 1- G5 (north-west)/G6 (south-west).

revision	description	drawn	approved	date		drawn	PM		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	14/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
15/10/2015	Friday	7:30am – 3.30pm	Philip Martin Hawre Eliassi	Strong northerly winds, max 35°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Field density test

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	12/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Subgrade Inspection	
Placing/Compaction	<ul style="list-style-type: none"> • Compactor roughed-up/compacted subgrade in grid B4 (south), F5 (north-east) and G6 (north-east) prior to placement of layer 2. • Compactor placed layer 2 in grid F+G 6 (south). Placement involved a 2 stage process: <ol style="list-style-type: none"> 1) Pushing-out 100mm sublayer, moisture conditioning, roughing up/compaction. 2) Pushing-out 200mm sublayer (on top of 100mm sublayer), moisture conditioning, compaction. • Water Cart moisture conditioned subgrade and layer 1 in grid F6 (south), F5 (north-east) and F4 (north-east). • Pad foot Roller compacted layer 1 in grid E4 (north-north-east), F4 (north), E5 (east), E6 (south-south-east), F5 (west-north-west), and F6 (west-south-west).
Fill/Material	<ul style="list-style-type: none"> • Dump Trucks (tandem x9 load) imported clay fill from St Albans (placed in grid F4 (north-east)). • Dump Trucks with trailers imported silty clay fill with some fine gravel from Werribee (placed in grid F6 (south) and F5 (north-east)). 20 tonne from the truck and trailer load came onto the site.
Test	<ul style="list-style-type: none"> • A total of 6 tests were undertaken on layer 1. Tests were undertaken in G5 (north), G4 (north), E4 (south-south-east), and C6, 5 and B5 (north).
Comments/On-site Communication	

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
17	x	F4 (NE)	1	2.13	1.76	21.0	106.5	0.0	Pass
18	x	E4 (NNE)	1	2.17	1.83	19.0	107.5	0.5 dry	Pass
19	x	E5 (N)	1	1.98	1.58	25.5	103.5	1.0 dry	Pass
20	x	O5 (NE)	2	1.93	1.61	20.0	102.0	3.0 dry	Pass
21	x	B6 (S)	2	1.90	1.55	23.0	101.0	3.0 dry	Pass
22	x	C6 (W)	2	1.89	1.62	16.5	99.0	3.0 dry	Pass

revision	description	drawn	approved	date	drawn	PM		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	12/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC



Padfoot Roller compacting layer 1 – E5 (east)/E6 (south-south-east)/F5 (west-north-west)/F6(west-south-west).



Grader ripping layer 1- G5-G6 (north-east).



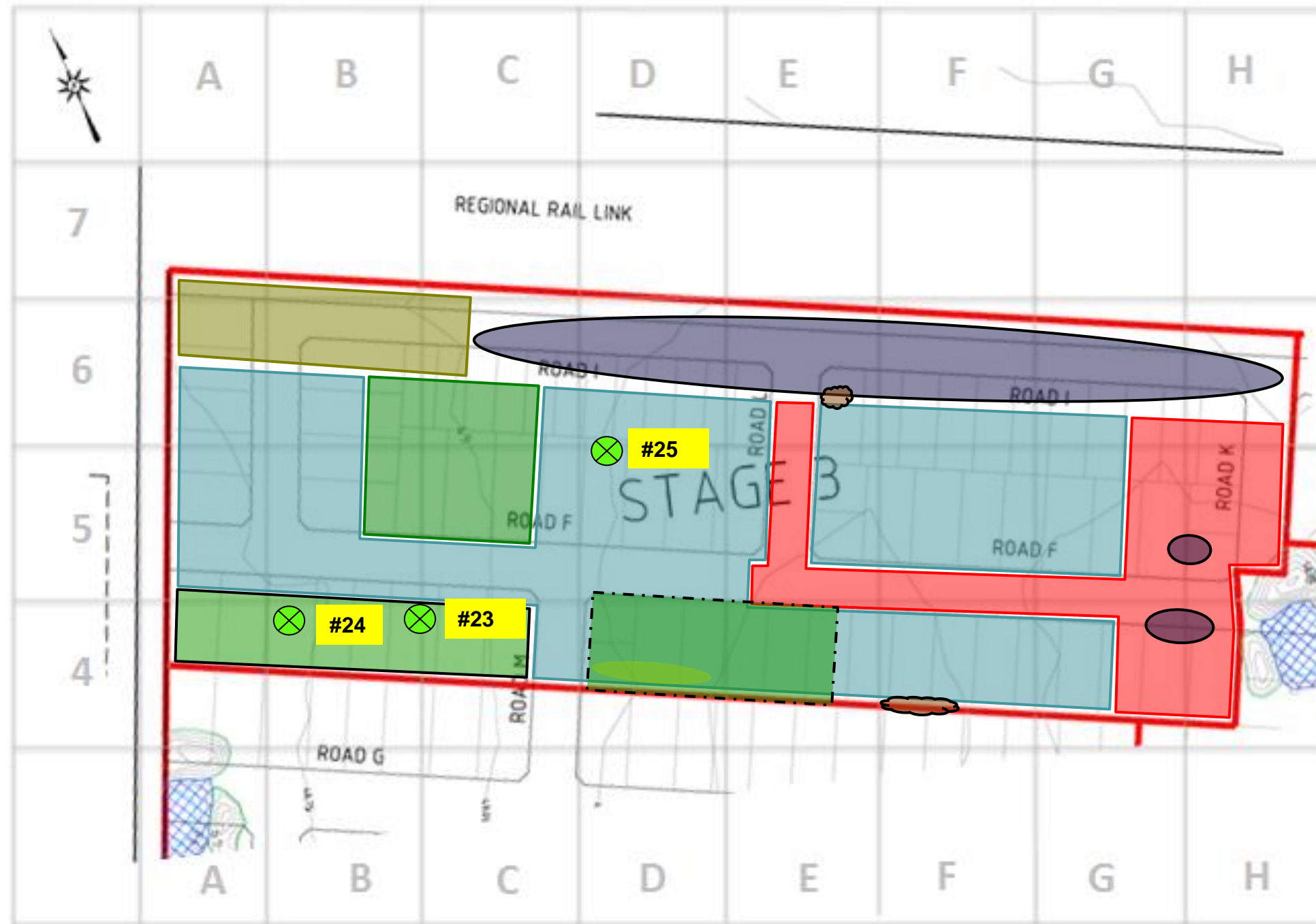
Water Cart moisturing layer 1



Grader playing layer 2

revision	description	drawn	approved	date		drawn	PM		client:	SPIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	12/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
16/10/2015	Friday	7:30 – 15:30	Hawre Eliassi (all day) Tim Couch (afternoon)	Mostly sunny with strong northerly winds, max 18°C	3 x Dump Truck (tandem) 1 x Dump Truck with trailer 1 x Water Cart 1 x Compactor 1 x Padfoot Roller 1 x Grader



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	HE		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	16/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	
Placing/Compaction	<ul style="list-style-type: none"> • Compactor roughed-up/compacted Layer 1 prior to placing layer 2 in D and E 4 • Only 100mm sublayer placed
Fill/Material	<ul style="list-style-type: none"> • Dump Trucks imported clay fill from St Albans • 1 truck and trailer from sunshine
Test	<ul style="list-style-type: none"> • A total of 3 tests were undertaken
Comments/On-site Communication	The Layer 2 in grids B4 and C4 was well moisture conditioned during compaction but due returned results slightly outside the specified moisture limit. PM approved these 2 tests as suitable subject to further moisture conditioning prior to placement of Layer 3.

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
23	x	C4	2	1.99	1.70	21.0	105.0	3.5 dry	Approved by PM
24	x	B4	2	1.98	1.68	21.5	104.0	3.5 dry	Approved by PM
25	6	D5	1	2.00	1.60	28.0	101.5	3.0 dry	Pass

revision	description	drawn	approved	date	drawn	HE		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	16/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



*Water cart moisture conditioning Layer 1.
and*



Grader ripping levelling fill from stockpile in layer 1



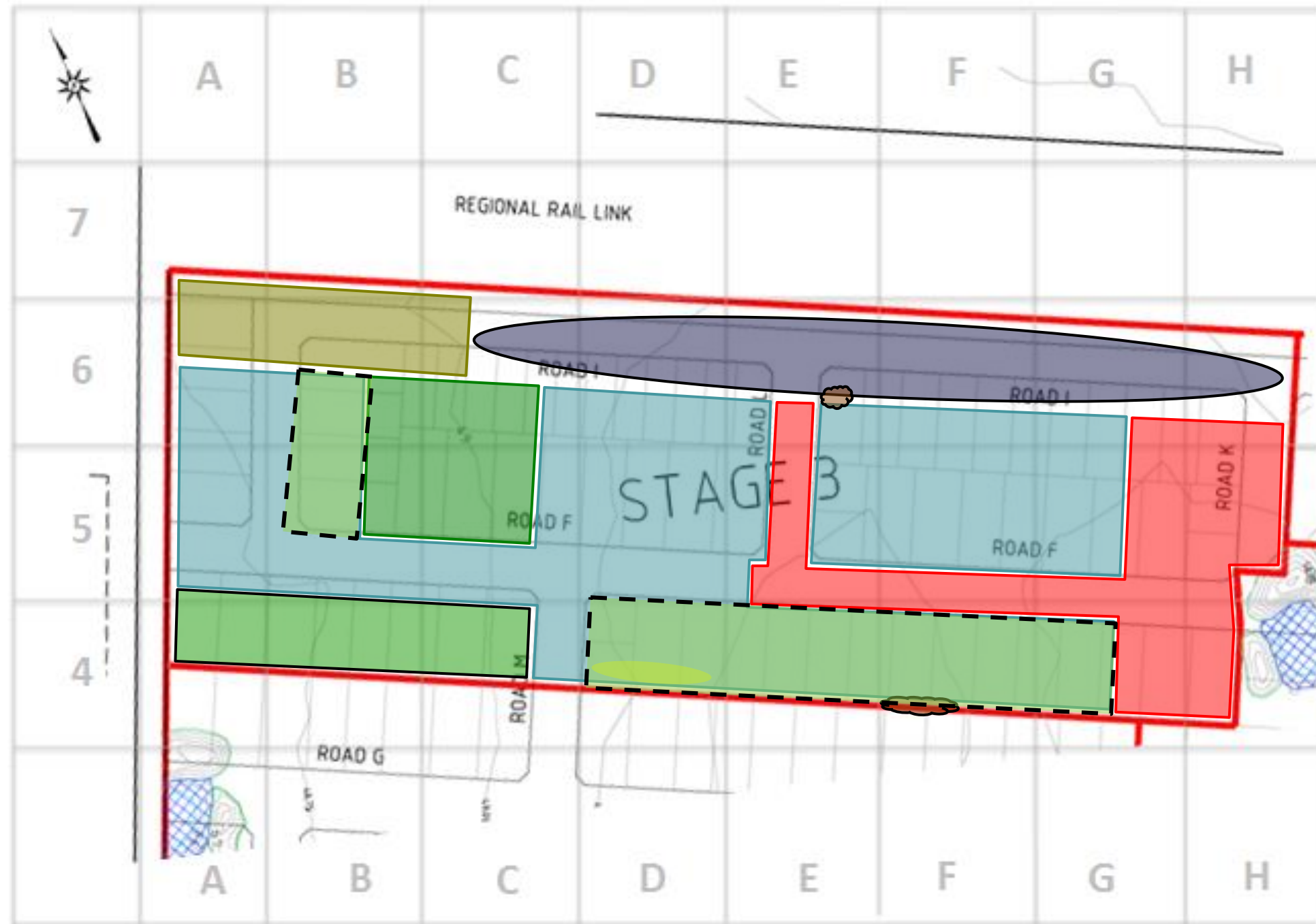
Grader on Layer 1



Water cart moisture conditioning the stockpile

revision	description	drawn	approved	date		drawn	HE		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	16/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
19/10/2015	Monday	7:30 – 15:30	Hawre Eliassi (all day) Sotir in the morning	Mostly sunny with strong northerly winds, max 22°C	1 x Water Cart 1 x Compactor 1 x Grader 1 x excavator



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test Number

revision	description	drawn	approved	date	drawn	HE		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	19/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	<ul style="list-style-type: none"> n/a
Placing/Compaction	<ul style="list-style-type: none"> Excavator sieving large boulders with shaker bucket in grid F4. Stockpile in Grid B6 was pushed on to Layer 2 within Grid B6 and B5. About 100mm of layer 2 completed only. We understand that Layer 2 in grid D4 to G4 comprises only about 75m thickness. Further 225mm of fill to be placed to complete Layer 2 in this area. Water cart moisture conditioning all areas during the day.
Fill/Material	<ul style="list-style-type: none"> No load had come in for the day.
Test	<ul style="list-style-type: none"> No Tests were undertaken today.
Comments/On-site Communication	

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	HE		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	19/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Excavator sieving boulders



Compactor placing layer 2 grid reference B5-B6



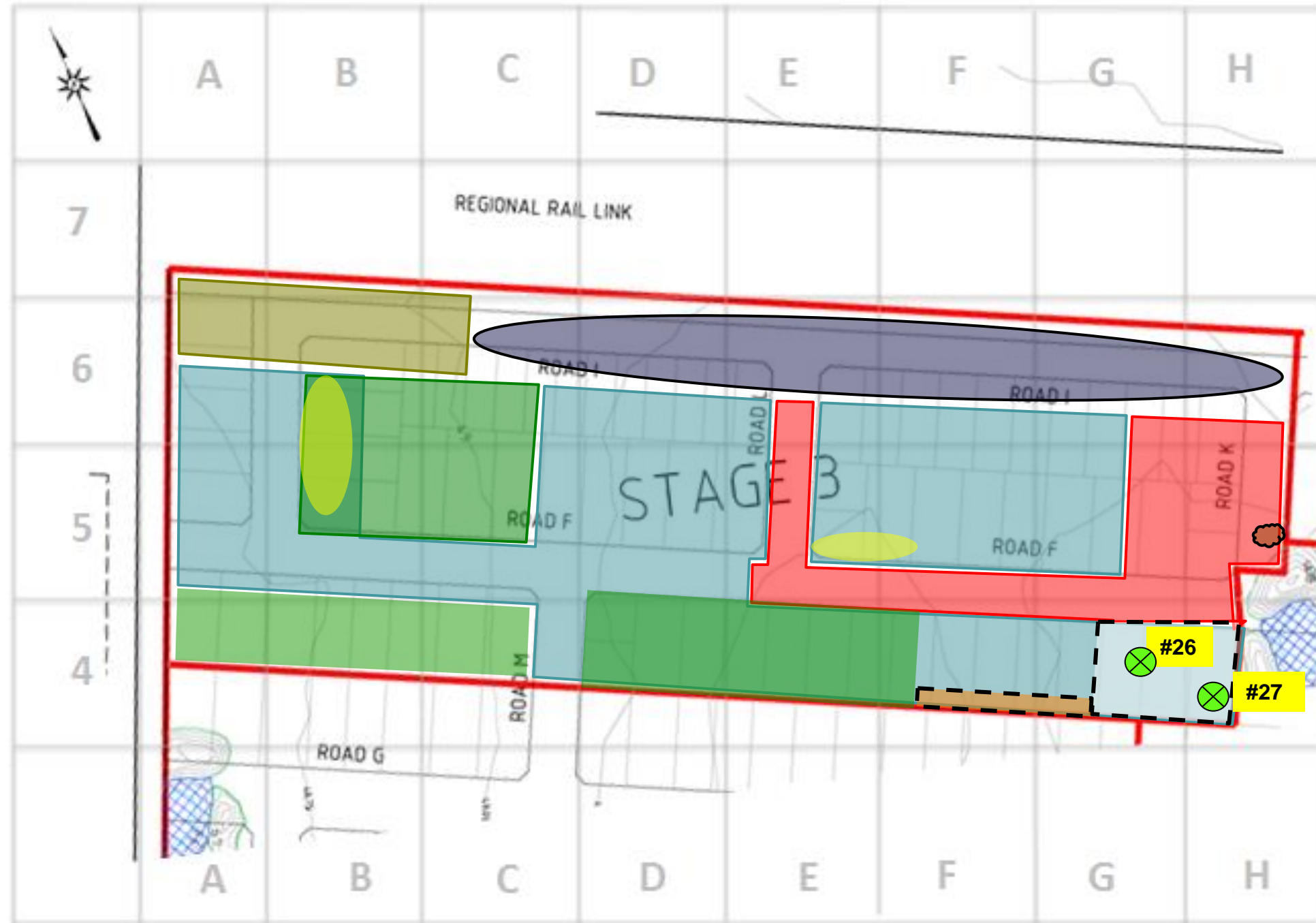
Water cart moisture conditioning grid layer D4-G4



Compactor levelling the fill on grid layer D4-G4

revision	description	drawn	approved	date		drawn	HE		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	19/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
20/10/2015	Tuesday	7:30 – 15:00	Hawre Eliassi (all day) Nirav Patel (all day) Ketan Patel (afternoon)	Mostly sunny with overcast conditions, max 25°C	3 x Dump Truck (tandem) 4 x Dump Truck with trailer 1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend


	Subgrade
	Layer 1
	Layer 2
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location
	Levelling of Layer 1

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	20/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Subgrade Inspection	
Placing/Compaction	<ul style="list-style-type: none"> • Compactor roughed up/compacted subgrade layer in grid G4 (Centre to East) and H4 (West, North-West and South-West) prior to placement of layer 1. • Compactor and Grader was used to place previously stockpiled silty clay fill in Grid G4 (Centre to East) and H4 (West, North-West and South-West) • Water cart was used to moisture condition subgrade and layer 1 in grid G4 (Centre to East) and H4 (West, North-West and South-West). • Water cart was also used to moisture condition stockpiled silty clay fill in grid B6(South in the centre) and B5 (North in the centre). • Water cart was used to moisture condition stockpiled gravelly clay fill in grid E5 (East in the centre) and F5 (West in the centre). • Compactor was used to level layer 1 material in grid F4 (South and South-East) and G4 (South and South-West)
Fill/Material	<ul style="list-style-type: none"> • Dump Trucks imported approximately 60T of silty clay fill from Sunshine and approximately 10T of clay from St Albans and placed in grid G4 (Centre to East) and H4 (West, North-West and South-West). • Dump Trucks imported approximately 40T of silty clay from Sunshine and placed silty clay fill in grid B6(South in the centre) and B5 (North in the centre) on layer 2. • Dump Trucks imported approximately 50T of gravelly clay fill and placed in grid in grid E5 (East in the centre) and F5 (West in the centre).
Test	<ul style="list-style-type: none"> • A total of 2 tests were undertaken on layer 1. Test 26 was taken in grid G4 (North-East) and test 27 undertaken in grid H4 (South-West)
Comments/On-site Communication	

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
26	X	G4 (North-East)	1	1.95	1.59	23.0	99.0	0.0	Pass
27	X	H4 (South-West)	1	1.97	1.64	19.5	100.0	2.0 dry	Pass

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE		
					approved			project:	LITTLE GREEN ESTATE- STAGE 3		
					date	20/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Water cart moisture conditioning Layer 1 in grid G4 (Centre to East) and H4 (West, North-West and South-West)



Compactor levelling fill from stockpile in layer 1 in grid G4 (Centre to East) and H4 (West, North-West and South-West)



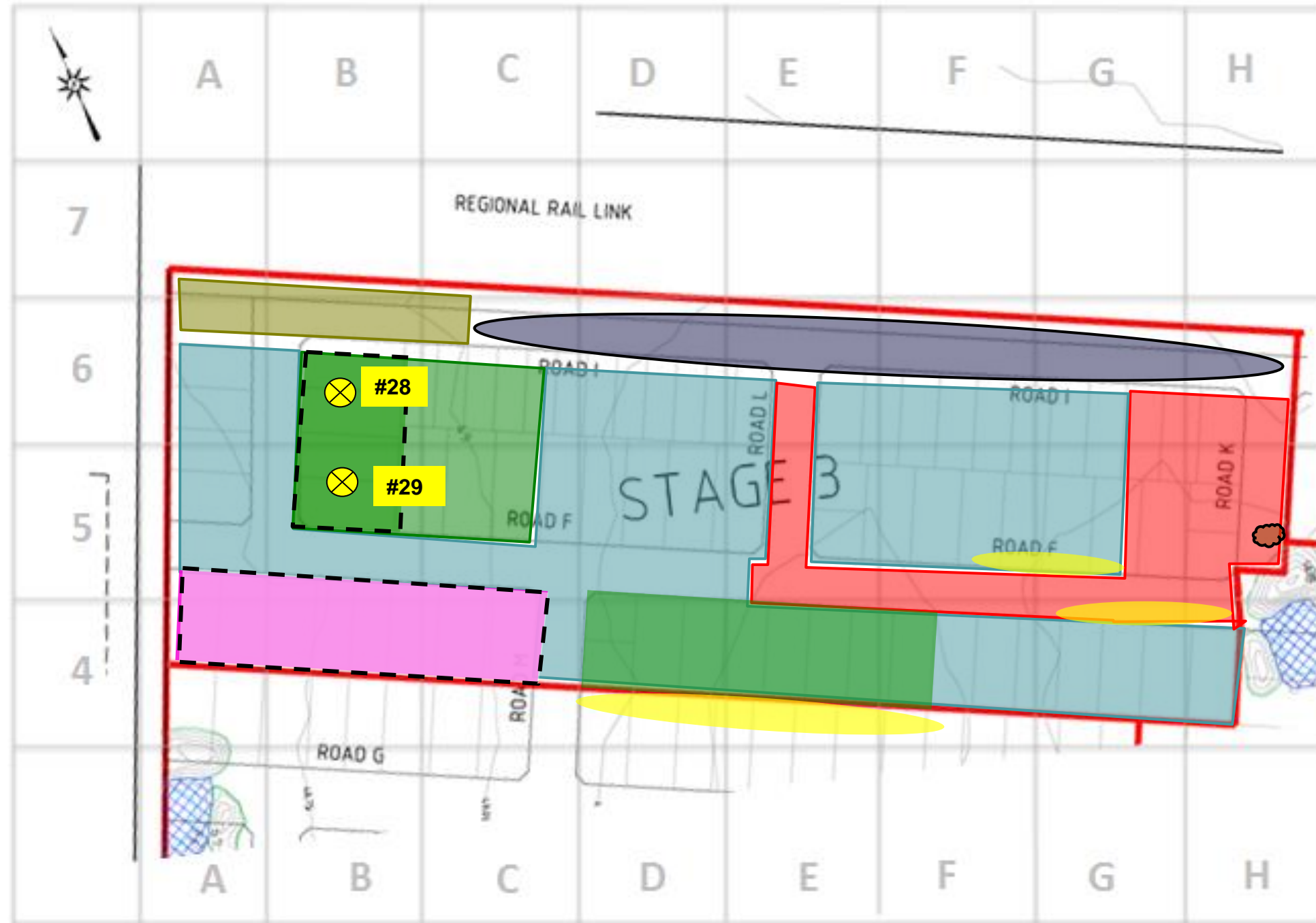
Compactor and Pad foot roller on Layer 1 in grid G4 (Centre to East) and H4 (West, North-West and South-West)



Water cart moisture conditioning the stockpile and compactor levelling layer 1 in grid G4 (Centre to East) and H4 (West, North-West and South-West)

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE		
						approved			project:	LITTLE GREEN ESTATE- STAGE 3		
						date	20/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
21/10/2015	Wednesday	7:30 – 15:00	Nirav Patel (all day)	Mostly overcast with patchy showers, max 22°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	21/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Subgrade Inspection

Placing/Compaction

- Compactor levelled the preceding day's silty clay stockpile and compacted layer 2 in grid B6 and B5.
- Pad foot roller was used (4-5 passes) on Layer 2 in grid B6 and B5/
- Compactor was used to place silty clay fill on layer 3 in grid A4, B4, C4, A5, B5 an C5. Pad foot roller was not used by the time Coffey departed site.
- Water cart was used to moisture condition layer 2 in grid B6 and B5.
- Water cart was also used to moisture condition layer 3 in grid A4, B4, C4, A5, B5 an C5.

Fill/Material

- Dump trucks imported approximately 1520m3 of silty clay from Ravenhall Prison and placed in grid B5, B6, A4, B4, C4, A5, B5, C5.
- Approximately 500m3 of gravelly clay from St Albans was stockpiled in G5, H5, G4, H4
- Dump trucks stockpiled approximately 170m3 of silty clay from Ravenhall Prison in grid D4, E4. F4, G4

Test

- A total of 2 tests were undertaken on layer 2. Test 28 was taken in grid B6 and test 29 undertaken in grid B5.

Comments/On-site Communication

- Site foreman (Paul) was unable to return to site after visiting another site due to a vehicular breakdown.
- A brief conversation was held with Tony from BMD regarding further level 1 and level 2 works required as part of Stage 1. Some areas of Stage 1 require for an 800-900mm lift.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
28	X	B6	2	1.89	1.50	26.0	96	0.5 wet	Pass
29	X	B5	2	2.01	1.63	23.5	104.5	2.0 dry	Pass

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	21/10/2015		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Water cart moisture conditioning layer 2 in grid B5 and B6



Compactor and water cart levelling fill and moisture conditioning layer 3 in grid A4, B4, C4, A5, B5, C5



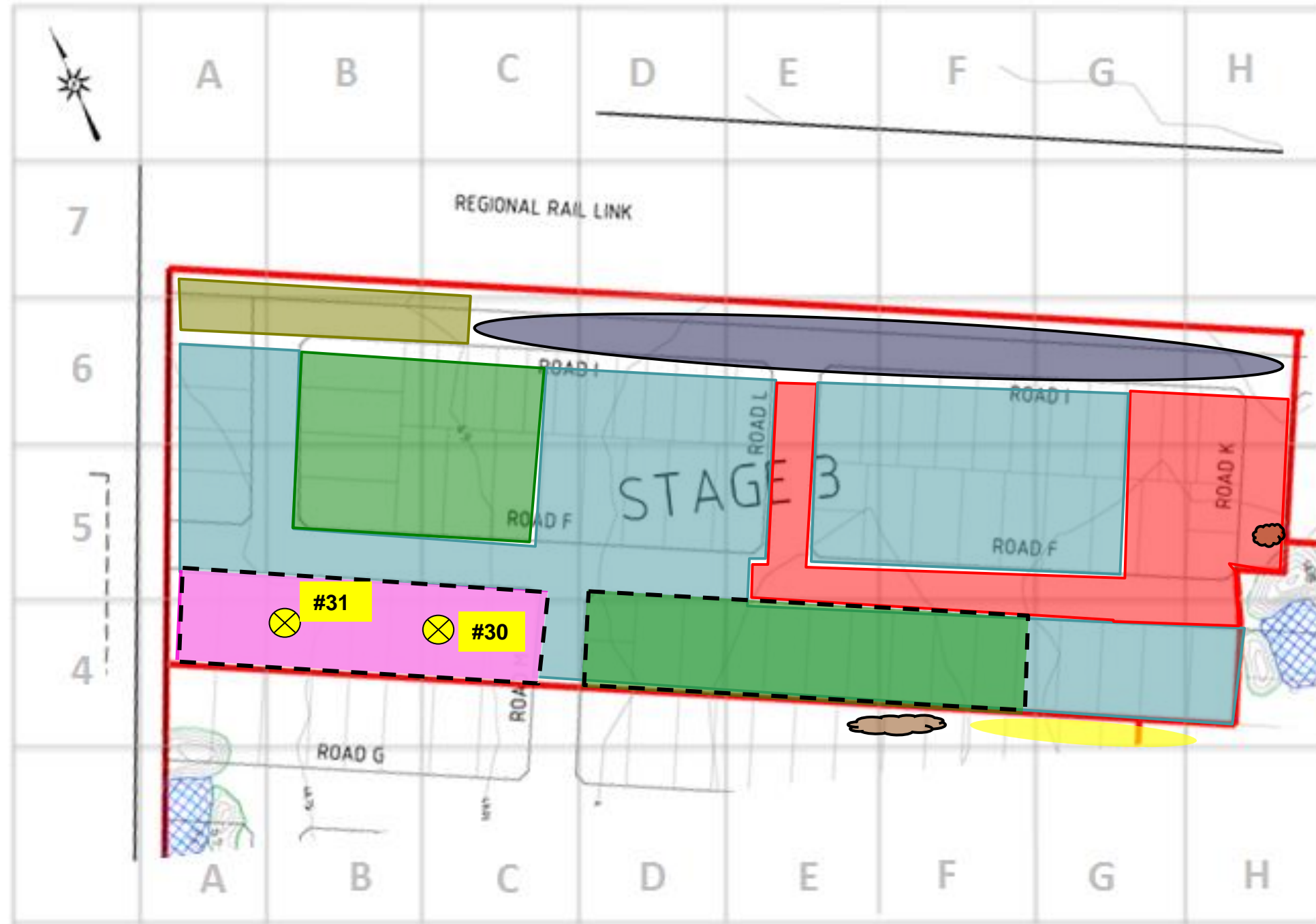
Compactor on Layer 2 in grid B5 and B6



Pad foot roller compacting layer 2 in grid B5 and B6

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	21/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
22/10/2015	Thursday	7:10 – 15:00	Nirav Patel (all day)	Mostly overcast with patchy showers, max 20°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	22/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- Compactor levelled and placed 170m³ of the preceding day's silty clay stockpile (in grid D4, E4, F4, G4 – 21/10/15 Report) and compacted layer 2 in grid D4 (North) E4 (North) and F4 (North).
- Pad foot roller was used (4-5 passes) on Layer 3 in grid A4, B4, C4, A5, B5 and C5.
- Water cart was used to moisture condition layer 2 in grid D4 (North) E4 (North) and F4 (North).
- Water cart was also used to moisture condition layer 3 prior to pad foot roller in grid A4, B4, C4, A5, B5 and C5.

Stage 1

- Layer 6 was ripped and moisture conditioned in grid O1 (North) and O2 (North)
- Pad foot roller was used to compact layer 7 silty clay material that was dry prior to moisture conditioning in grid O1 (North) and O2 (North).
- On-site stockpiled fill was used for Layer 7 and was obtained from digging the trenches in Stage 1.

Fill/Material

- Dump trucks imported approximately 240m³ of sandy clay from South Yarra and placed in grid D4 (North). 30m³ of this same fill was stockpiled in G4 (South-West)
- Approximately 450m³ of gravelly clay from St Albans was spread across road edges in E6 (West), E5 (West), F5 (South), G5 (South).
- Approximately 60m³ of stockpiled silty clay from Ravenhall Prison was left untouched for the day and left in grid F4 (South) and G4 (South).

Test


- A total of 2 tests were undertaken on Stage 3 on layer 3. Test 30 was taken in grid C4 and test 31 undertaken in grid B4.

Comments/On-site Communication

- Works were undertaken in Stage 1 that involved moisture conditioning the surface layer, and ripping it concurrently. Approximately 100-150mm of layer 7 was placed.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
30	X	C4	3	1.96	1.60	22.0	98.0	2.5 dry	Pass
31	X	B4	3	2.09	1.70	23.0	104.0	2.5 dry	Pass

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	22/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Water cart moisture conditioning layer 2 in grid D4 (North) E4 (North) and F4 (North)



Stage 1: Compactor used on layer 7 in grid O1 (North) and O2 (North) to compact on-site fill that was moisture conditioned



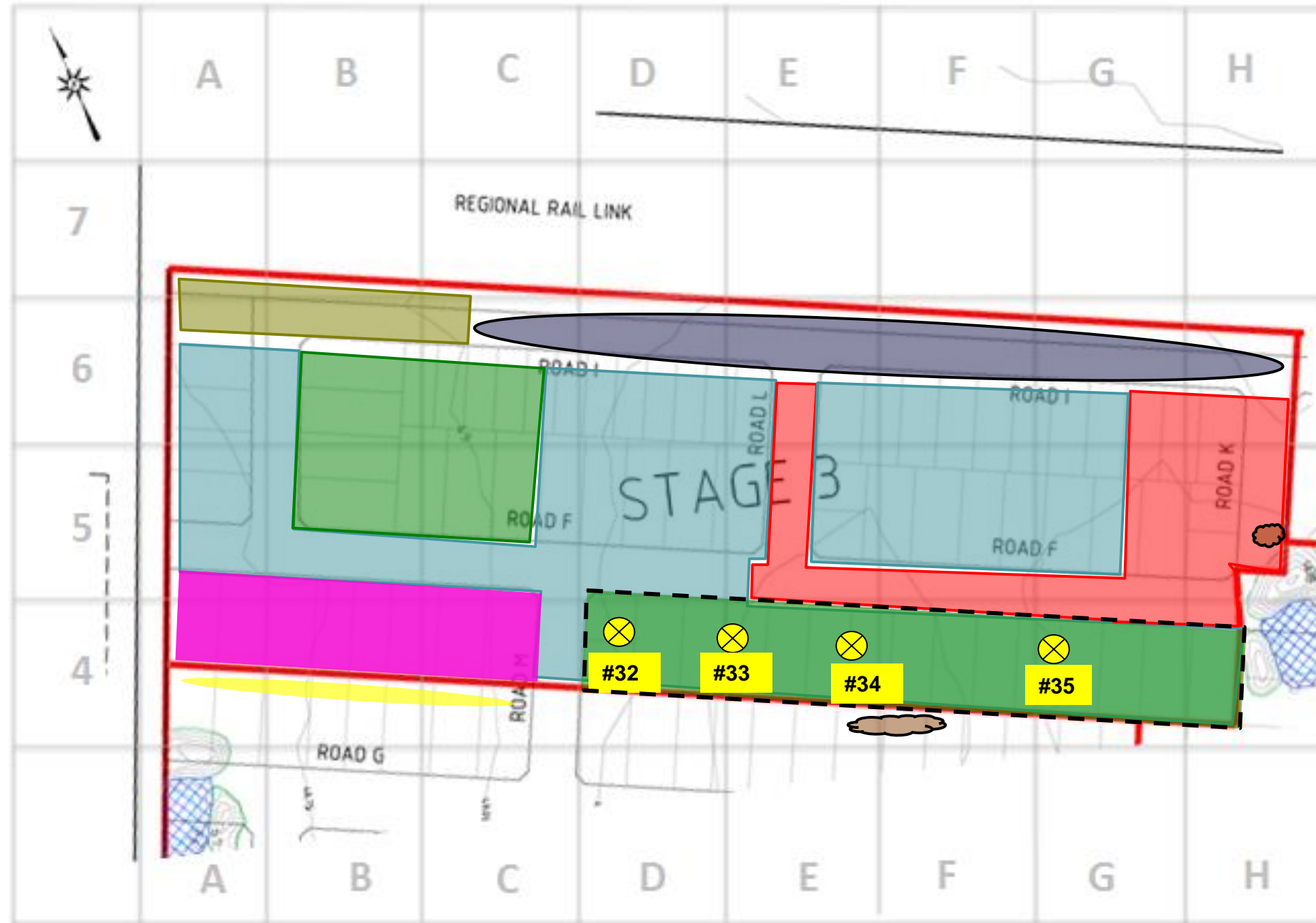
Compactor on Layer 2 in grid D4 (North) E4 (North) and F4 (North)



Pad foot roller compacting on Layer 3 in grid A4, B4, C4, A5, B5 and C5

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	22/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
23/10/2015	Friday	7:10 – 15:30	Nirav Patel (all day)	Mostly overcast, max 20°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	23/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- Compactor levelled and placed 60m³ of the preceding day's silty clay stockpile (in grid D4, E4, F4, G4) and compacted layer 2 in grid D4, E4, F4, G4 and H4. An additional 1300m³ of silty clay from Ravenhall Prison was placed in the same grid locations.
- Approximately 200mm of layer 2 was placed in grid G4 (East) and H4 (West). Nuclear moisture and density testing was not undertaken on the partially completed layer.
- Pad foot roller was used (4-5 passes) on Layer 2 in grid D4, E4, F4, G4 (West)
- Water cart was used to moisture condition layer 2 in grid D4, E4, F4, G4 and H4.

Stage 1

- Layer 6 was ripped and moisture conditioned in grid O1 (North) and O2 (South).
- Layer 5 was ripped and moisture conditioned in grid O1 (centre) along Road D.
- Pad foot roller was used to compact layer 7 and layer 6 silty clay material that was dry prior to moisture conditioning in grid O1 (North) and O2 (South).
- On-site stockpiled fill was used for Layer 7 and was obtained from digging the trenches in Stage 1.

Fill/Material

- Dump trucks imported approximately 50m³ of sandy clay from South Yarra and placed in grid D4 and G4.
- Approximately 500m³ of silty clay from Ravenhall Prison was left untouched for the day and left in grid A4, B4 and C4, and F4, G4 and H4.

Test


- A total of 4 tests were undertaken on Stage 3 on layer 2. Test 32 was taken in grid D4, test 31 undertaken in grid E4 (West), test 32 undertaken in grid E4 (East).

Comments/On-site Communication

- Indicative moisture and density tests were undertaken on Stage 1 in layer 7 in grid O1 and O2 for the partially completed layer (200mm) however it was identified that the moisture was not adequate. It was suggested that the layer be ripped and moisture conditioned again as discussed with Tony.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
32	X	D4	2	2.18	1.95	11.5	99.0	0	Pass
33	X	E4 (west)	2	1.97	1.58	25.0	103.0	1.5 dry	Pass
34	X	E4 (east)	2	1.91	1.57	21.5	100.5	1.5 dry	Pass
35	X	G4 (west)	2	2.06	1.72	19.5	102.5	0.5 dry	Pass

revision	description			drawn	approved	date	drawn	NP		client:	SPIIRE		
							approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
							date	23/10/2015		title:	DAILY RECORD - LEVEL 1 GITA		
							scale	NTS		project no:	GEOTABTF09878AA	figure no:	
							original size	A3					



Water cart moisture conditioning layer 2 in grid D4, E4, F4 and G4



Stage 1: pad foot roller used on layer 7 in grid O1 (North) and O2 (South)



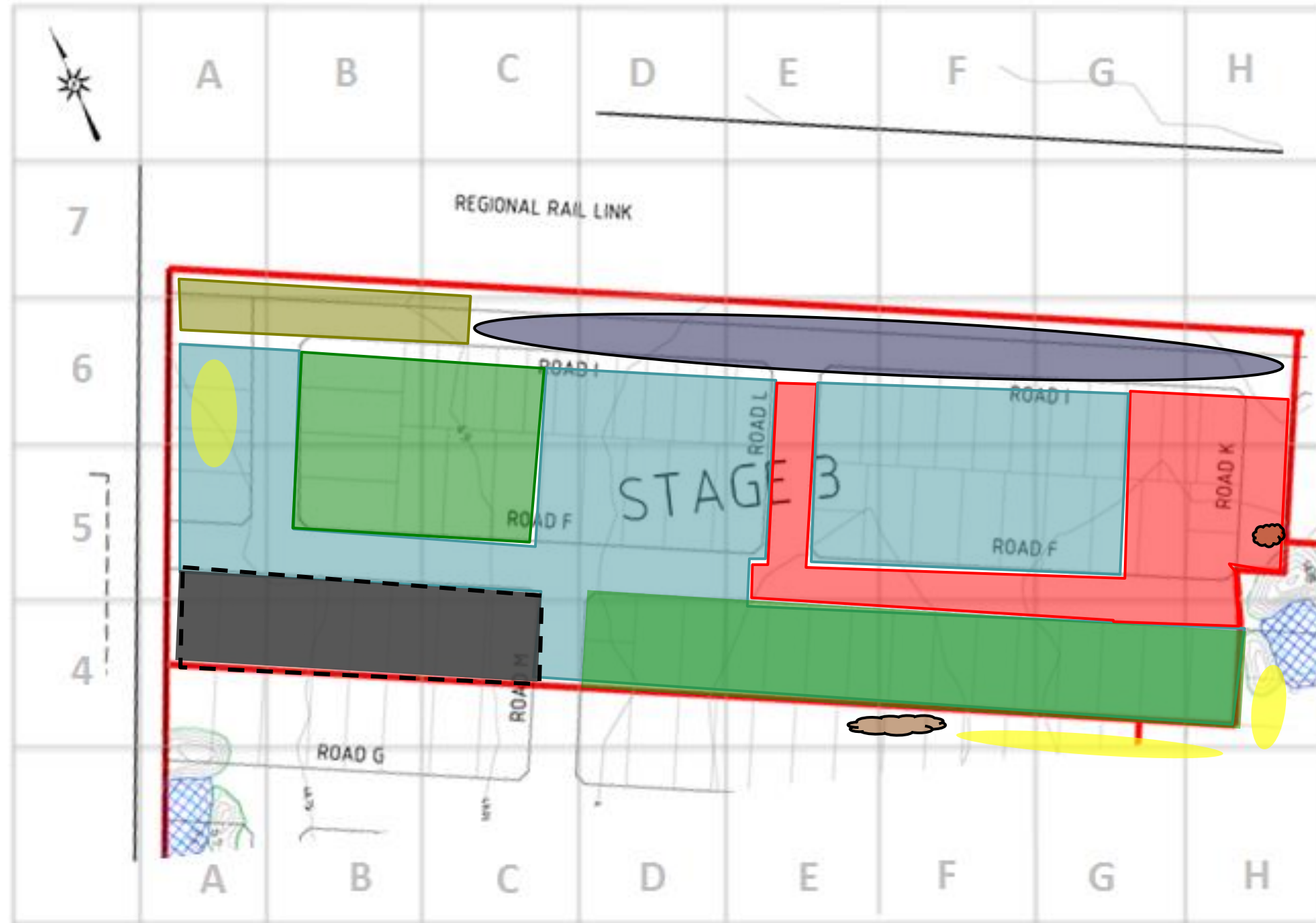
Compactor and pad foot roller on Layer 2 in D4, E4, F4 and G4














Stage 1: bulldozer ripping layer 5 grid O1 (centre)

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	23/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
26/10/2015	Monday	7:00 – 15:00	Nirav Patel (all day)	Mostly overcast with some showers, max 20°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description			drawn	approved	date	drawn	NP		client:	SPIRE	
							approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
							date	26/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
							scale	NTS		project no:	GEOTABTF09878AA	figure no:
							original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- Compactor levelled and placed layer 4 in grid A4, B4, C4, A5, B5 and C5. The layer was not compacted using a pad foot roller at the time Coffey left site.
- Water cart was used to moisture condition layer 4 in grid A4, B4, C4, A5, B5 and C5.

Stage 1

- Layer 6 was ripped and moisture conditioned in grid O1 (North) and O2 (South).
- Layer 5 was ripped and moisture conditioned in grid O1 (centre) along Road D.
- Pad foot roller was used to compact layer 7 and layer 6 silty clay material that was dry prior to moisture conditioning in grid O1 (North) and O2 (South).
- On-site stockpiled fill was used for Layer 7 and was obtained from digging the trenches in Stage 1.

Fill/Material

- Dump trucks imported approximately 200m³ of sandy clay from South Yarra and placed in grid A6 and A5.
- Approximately 1500m³ of silty clay from Ravenhall Prison was placed in in grid A4, B4 and C4, A5, B5 and C5. Approximately 150m³ of silty clay material was left stockpiled in and F4, G4 and H4.
- Approximately 50m³ of silty clay material was imported from Werribee and placed in layer 4 in grid A4, B4, C4, A5, B5 and C5.


Test

- No tests were undertaken today.

Comments/On-site Communication

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description			drawn	approved	date	drawn	NP		client:	SPIIRE		
							approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
							date	26/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
							scale	NTS		project no:	GEOTABTF09878AA	figure no:	
							original size	A3					



Water cart moisture conditioning layer 4 in grid A4, B4, C4 and A5, B5 and C5



Stage 1: pad foot roller used on layer 7 in grid O1 (North) and O2 (South)



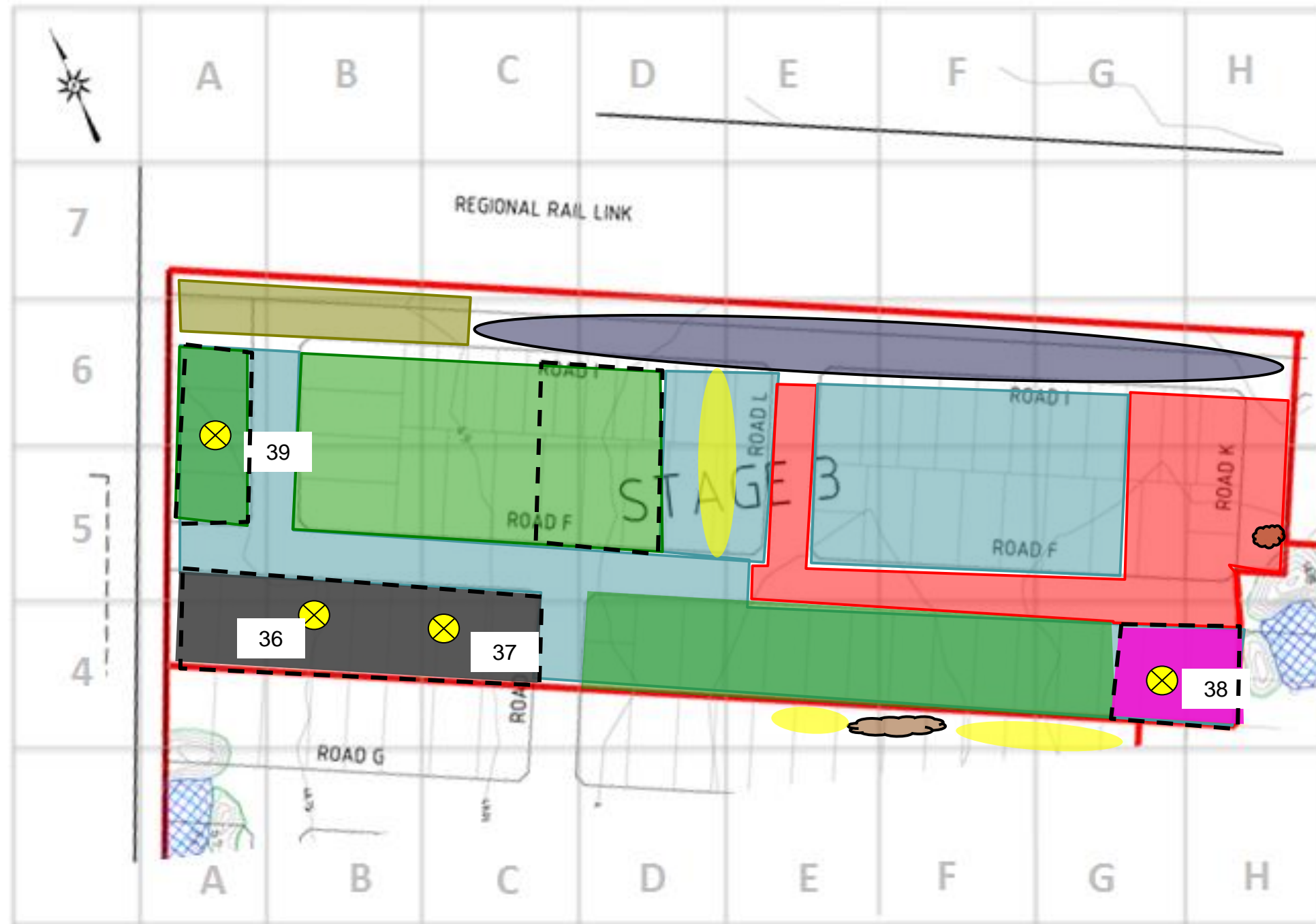
Compactor on layer 4 in grid A4, B4, C4 and A5, B5 and C5



Stage 1: bulldozer placing layer 7 in grid O1 (North) and O2 (South)

revision	description	drawn	approved	date		drawn	NP		client:	SPIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	26/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
27/10/2015	Tuesday	7:00 – 15:30	Nirav Patel (all day) Brandon Keo (all day)	Sunny, Windy, max 24°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP/BK		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	27/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- Pad foot roller was used to make 4-5 passes on layer 4 in grid A4, B4, C4, A5, B5 and C5 prior to testing.
- Water cart was used to moisture condition silty clay layer 4 in grid A4, B4, C4, A5, B5 and C5 prior to being rolled.
- Approximately 500-600m³ of sandy clay and silty clay material used for Layer 2 was placed and moisture conditioned in grid A5 and A6.
- Approximately 700m³ of silty clay and some sandy clay material used for Layer 2 (100-150mm) was placed in grid C5 (East), C6 (East), D5, D6, E5 (West), E6 (West) and moisture conditioned.

Stage 1

- Pad foot roller was used to compact layer 7 which composed of silty clay and some sandy clay that was obtained from existing stockpiles on-site.

Fill/Material

- Approximately 1150m³ of silty clay and sandy clay from Coburg, South Melbourne and Werribee Plaza were imported onto site and placed in A5, A6, C5 (East), C6 (East), D5, D6, E5 (West), E6 (West)
- Approximately 250m³ of silty clay material was stockpiled in D5 (East) and D6 (East)
- Approximately 200-300m³ of silty clay material was placed in layer 3 in grid G4 (East) and H4 (West).
- Approximately 170m³ of silty clay material was stockpiled in grid E4, F4 and G4.

Test

- 2 tests were undertaken in Stage 1 in grid O1 and O2 (layer 7).
- 4 tests were undertaken in Stage 3 in grid A6 (layer 2), B4 (layer 4), C4 (layer 4) and G4 (layer 3)

Comments/On-site Communication

Stage 1: Layer 7 in grid O1 and O2 was tested on a small section of the area that had been passed on by a pad-foot roller approximately (10-12 times). Concerns expressed about exceeding 300mm layer thickness in Layer 7 O1 and O2.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
36	X	B4	4	2.00	1.64	22.0	106.5	3.0 dry	Pass
37	x	C4	4	1.87	1.56	20.0	102.0	4.5 dry	Fail
38	X	G4	3	2.05	1.67	23.0	102.0	0.5 wet	Pass
39	X	A6	2	1.97	1.72	14.5	95.0	0.5 dry	Pass
162	x	O1	7	1.95	1.57	24.0	104.5	5.0 dry	Fail
163	X	O2	7	2.05	1.66	24.0	103.0	0.0	Pass

revision	description	drawn	approved	date	drawn	NP/BK		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	27/10/2015		title:	DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Compactor and Water cart moisture conditioning layer 2 in grid A5 and A6



Stage 1: pad foot roller used on layer 7 in grid O1 (North) and O2 (South)



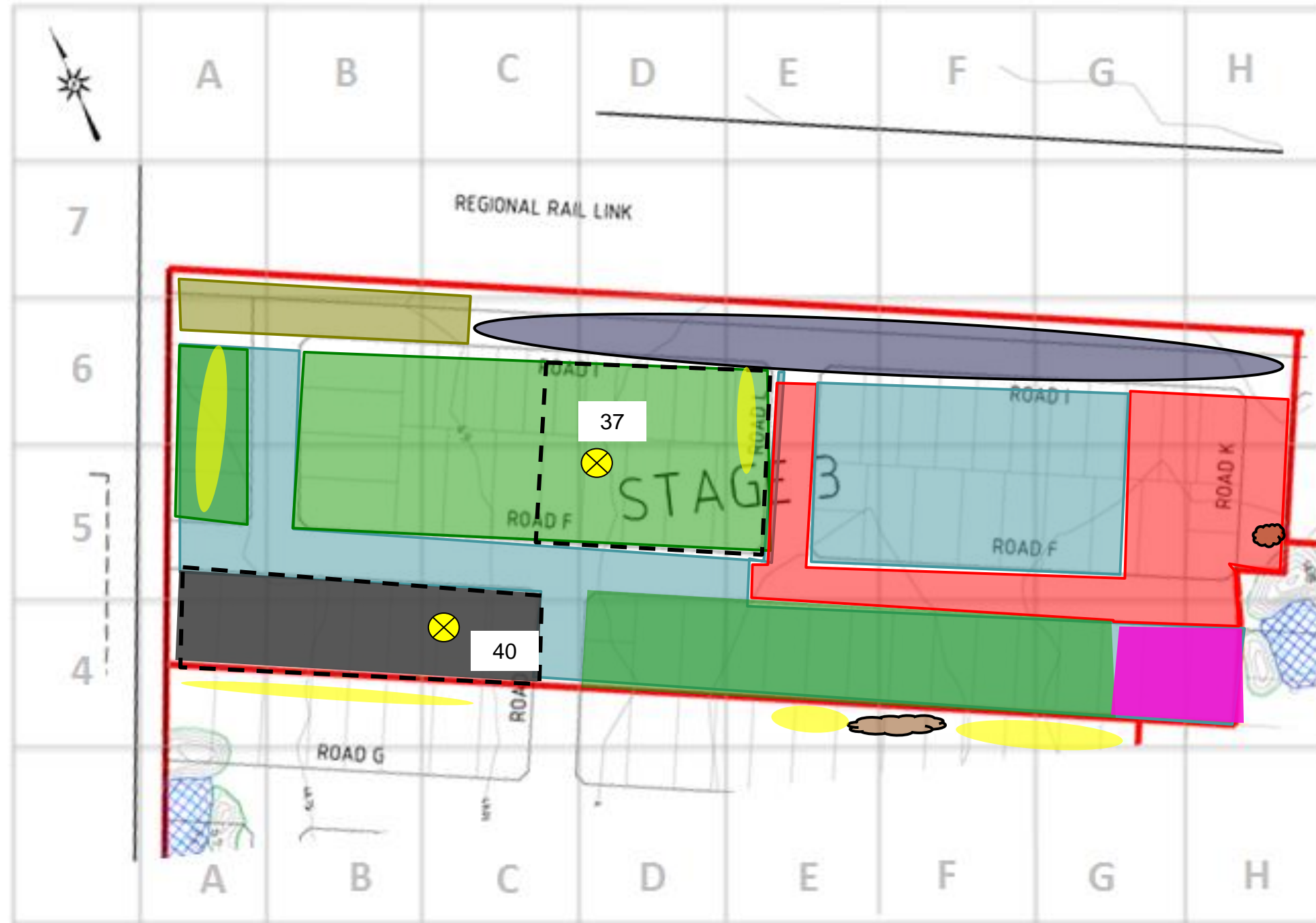
Pad foot roller and water cart on layer 4 in grid A4, B4, C4 and A5, B5 and C5



Stage 1: water cart moisture conditioning layer 7 in grid O1 (North) and O2 (South)

revision	description	drawn	approved	date		drawn	NP/BK		client:	SPIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	27/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
28/10/2015	Wednesday	7:00 – 14:30	Nirav Patel (all day)	Sunny, Windy, max 25°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend


	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	28/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	
Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> Approximately 840m³ of silty clay material used for Layer 2 was placed and moisture conditioned in grid C5, C6, D5, D6. Water cart was used to moisture condition silty clay layer 2 in grid C5, C6, D5 (West), D6 (West) prior to being rolled. Pad foot roller was used to make 4-5 passes on layer 2 in grid C5, C6, D5 (West), D6 (West). <p>Stage 1</p> <ul style="list-style-type: none"> Silty clay material was added to form part of layer 7 in grid N2 (South East) and N1 (North East) to make the layer approximately 150-200mm thick. The fill was moisture conditioned. Pad foot roller was used to compact layer 7 in grid O1 and O2 which composed of silty clay and some sandy clay that was obtained from existing stockpiles on-site. The area was concurrently moisture conditioned.
Fill/Material	<ul style="list-style-type: none"> Approximately 600m³ of silty clay (Mudstone) from Coburg was stockpiled in grid A4, B4 and C4. Approximately 480m³ of sandy clay from South Melbourne was stockpiled in A5 and A6. Approximately 70m³ of silty clay material was stockpiled in D5 (East) and D6 (East).
Test	<ul style="list-style-type: none"> 1 re-test (of test 37) was undertaken in Stage 3 in grid C4 (North West) (layer 4). 1 re-test (of test 162) was undertaken in Stage 1 in grid O1 (North East) on layer 7 in a section that had been completed. 1 test was undertaken in Stage 3 in grid D5 (North West) in layer 2. 1 test was undertaken in Stage 1 in grid O1 (South) in layer 6.
Comments/On-site Communication	<ul style="list-style-type: none"> Stage 1: Layer 7 in grid O1 and O2 was tested on a small section of the area that had been passed on by a pad-foot roller approximately (10-12 times). Concerns expressed about exceeding 300mm layer thickness in Layer 7 O1 and O2. Stage 1: A thin sub layer (100mm) of silty clay material was placed as part of layer 7 along Road D in grid O1 (South) prior to receiving lab test results.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
40	37	C4 (NW)	4	1.89	1.55	22.0	102.5	4.5 dry	Fail
41	X	D5	2	2.13	1.78	19.5	106.5	0.5 dry	Pass
164	162	O1 (NE)	7	2.02	1.71	18.0	112.0	5.0 dry	Fail
165	X	O1 (S)	6	2.12	1.78	19.5	114.0	4.0 dry	Fail

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	28/10/2015		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Compactor and Water cart moisture conditioning layer 2 in grid C5, C6, D5, D6



Stage 1: pad foot roller used on layer 7 in grid O1 (North) and O2 (South)



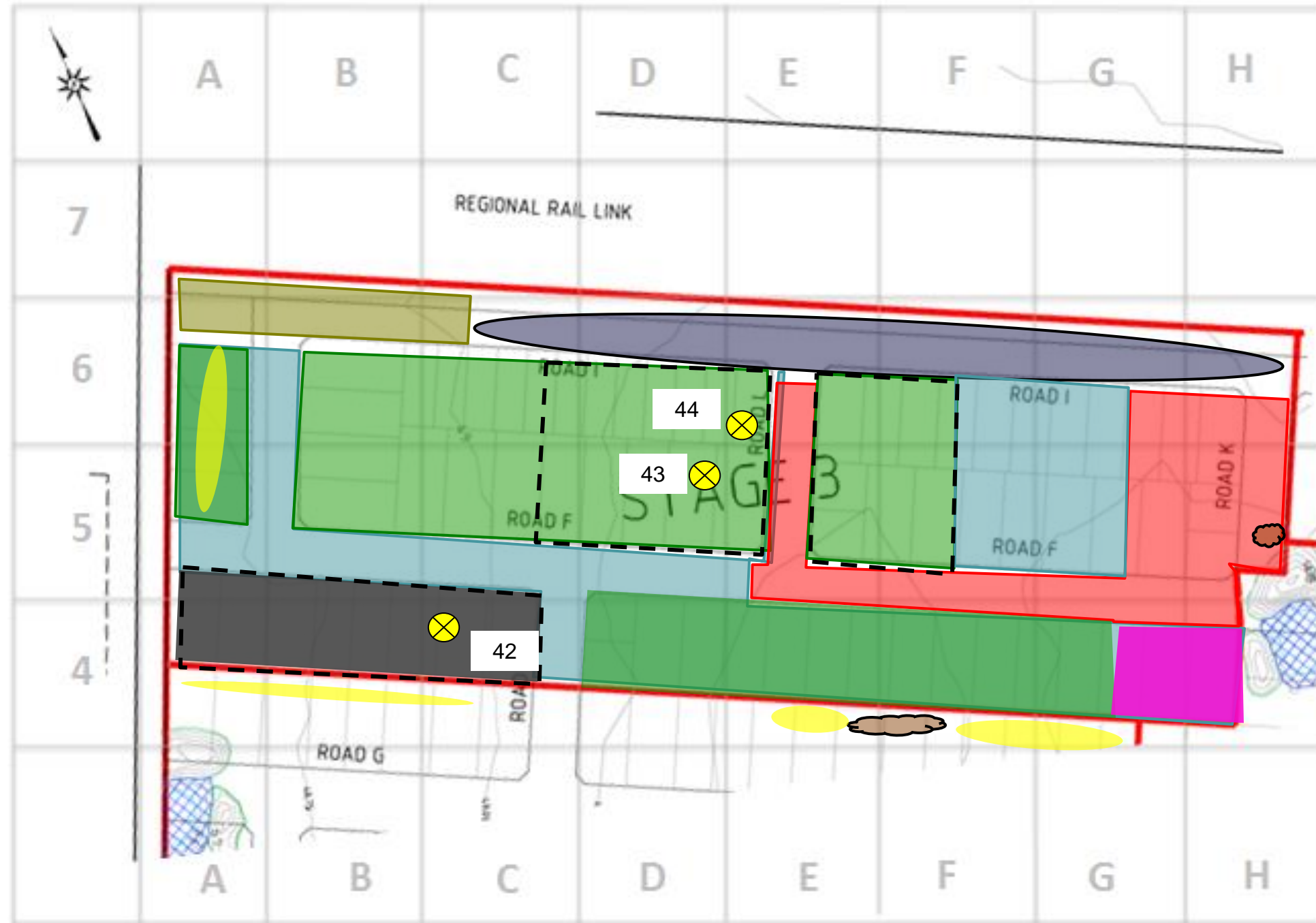
Pad foot roller and water cart on layer 2 in grid C5, C6, D5, D6



Stage 1-Layer 7 thickness: dozer pushing more material as part of layer 7 in grid N1 (North East) and N2 (South East).

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	28/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
29/10/2015	Thursday	7:00 -15:30	Nirav Patel (all day)	Sunny, max 25°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	29/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- Approximately 680m³ of silty clay material used for Layer 2 was placed and moisture conditioned in grid E5, E6, F5, F6.
- Pad foot roller was used to make 2 passes on layer 2 in grid D5, D6, E5 (West), E6 (West).

Stage 1

- Silty clay material in layer 7 was ripped and moisture conditioned grid O1.
- Silty clay material in Layer 7 in grid N1 (North East) was placed to make it 300mm thick. The fill was moisture conditioned and rolled with a pad foot roller.
- Pad foot roller was used to compact layer 6 in grid O1 which composed of silty clay and some sandy clay that was obtained from existing stockpiles on-site. The area was concurrently moisture conditioned.

Fill/Material

- Approximately 720m³ of silty clay was imported from Altona was imported on site.
- Approximately 1240m³ of sandy clay from South Melbourne was imported on site.
- Approximately 60m³ of silty clay material from Werribee was imported on site.

Test

- 1 re-test (of test 40) was undertaken in Stage 3 in grid C4 (North West) (layer 4).
- 1 re-test (of test 164) was undertaken in Stage 1 in grid O1 (North East) on layer 7 in a section that had been completed.
- 2 tests were undertaken in Stage 3 in grid D5 (North East) in layer 2.
- 2 tests were undertaken in Stage 1 in grid O1 (North North West) and in N1 (North) in layer 7.

Comments/On-site Communication

- Stage 1: Testing on layer 7 in grid N1 (North) had been undertaken after procedures involving more moisture conditioning were put in place. A re-test (167) and test 166 were undertaken however the layer was later ripped and moisture conditioned again. No tests were undertaken in the ripped layer.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
42 Stage 3	40	C4 (NW)	4	2.00	1.63	23.0	102.0	2.5 dry	Pass
43 Stage 3	X	D5 (NE)	2	1.75	1.40	25.5	91.0	1.5 dry	Fail
44 Stage 3	X	E6 (SW)	2	1.86	1.50	23.5	98.5	2.5 dry	Pass
166 Stage 1	X	O1 (NNW)	7	2.08	1.68	24.0	104.5	0.5 dry	Pass
167 Stage 1	164	O1 (NNE)	7	2.14	1.73	24.0	109.0	2.5 dry	Pass
168 Stage 1	X	N1 (N)	7	2.03	1.67	21.5	103.0	2.5 wet	Pass

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	29/10/2015		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Compactor and Water cart moisture conditioning layer 2 in grid E5 and E6



Stage 1: pad foot roller used on layer 7 in grid N1



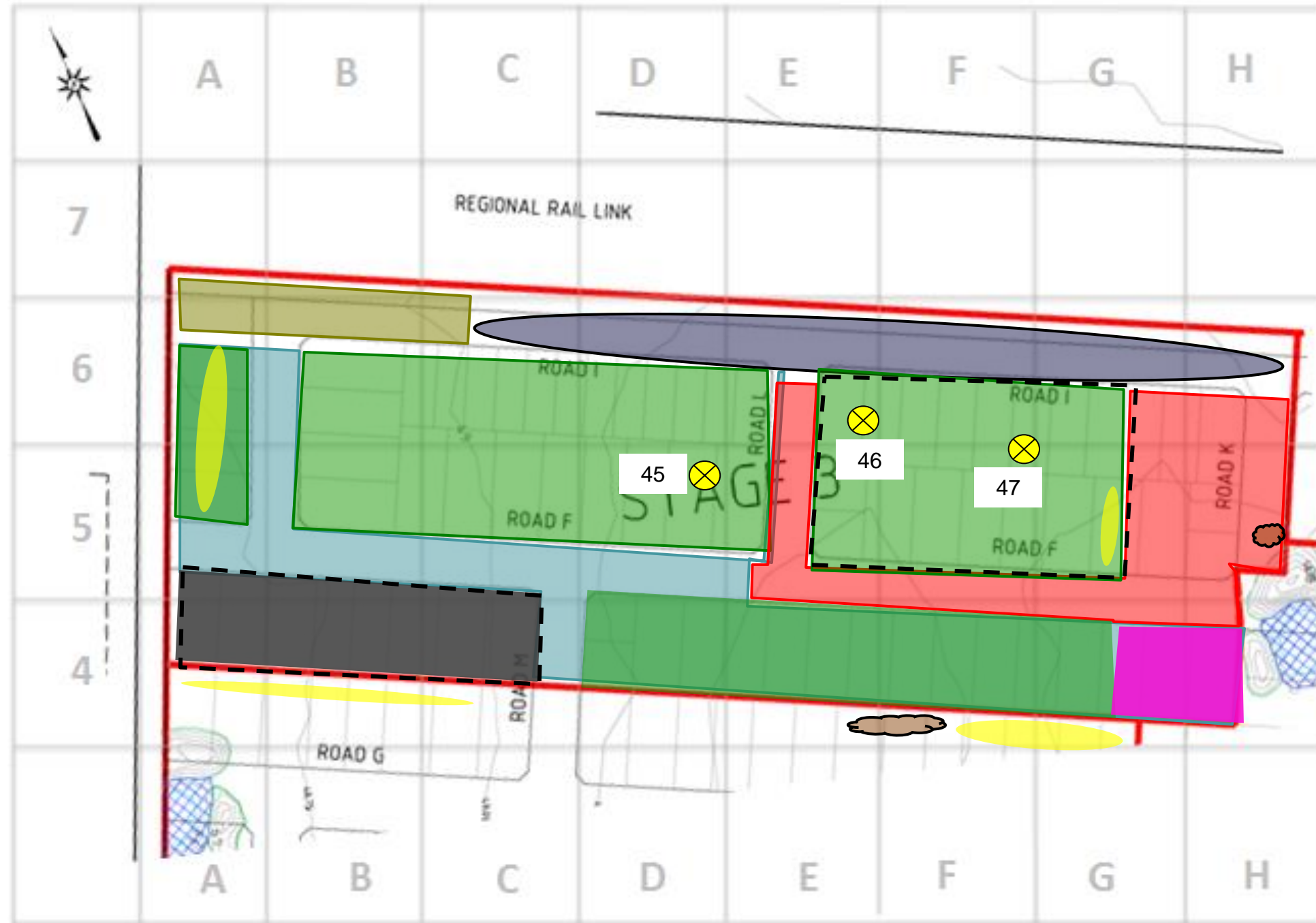
Compactor on layer 2 in grid E5, E6, F5, F6



Stage 1: dozer pushing more silty clay fill as part of layer 6 along road D in grid O1 (centre) and N1 (East)

revision	description	drawn	approved	date		drawn	NP		client:	SPIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	29/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
30/10/2015	Friday	7:30 -12:45	Nirav Patel (all day)	Sunny, max 25°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location


revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	30/10/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> Approximately 1000m³ of silty clay material used for Layer 2 was placed and moisture conditioned in grid F5, F6, G5, G6. Pad foot roller was used to make 2 passes on layer 2 in grid E5 (East), E6 (East), F5 (West) and F6 (West). <p>Stage 1</p> <ul style="list-style-type: none"> Silty clay material (on site) in layer 7 was rolled with pad foot roller and moisture conditioned in grid O1 as it had been ripped up on the previous day. Moisture conditioned silty clay material (on site) was placed and rolled with pad foot roller for layer 8 in grid O2 (South). Layer is approximately 200mm thick. Pad foot roller was used to compact layer in grid O1.
Fill/Material	<ul style="list-style-type: none"> Approximately 760m³ of silty clay was imported from Altona was imported on site. Approximately 280m³ of silty clay material (Mudstone) from Coburg was imported on site.
Test	<ul style="list-style-type: none"> 1 re-test (of test 43) was undertaken in Stage 3 in grid D5 (North East) (layer 2). 1 test was undertaken in Stage 1 in grid O1 (North) (layer 7). 1 test was undertaken in Stage 1 in grid N1 (Centre) (layer 6). 1 test was undertaken in Stage 1 in grid O2 (South) (layer 8). 1 test was undertaken in Stage 3 in grid E6 (East) (layer 2). 1 test was undertaken in Stage 3 in grid F6 (South East) (layer 2).
Comments/On-site Communication	<ul style="list-style-type: none"> Stage 1: Testing on layer 7 in grid O1 had been undertaken after the layer had been ripped, moisture conditioned and rolled (test 169).

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
45	43	D5 (NE)	2	1.85	1.53	21.0	98.0	3.0 dry	Pass
46	X	E6 (E)	2	2.05	1.65	23.5	104.5	2.5 dry	Pass
47	X	F6 (SE)	2	2.02	1.64	23.5	104.5	2.5 dry	Pass
169	X	O1 (NNE)	7	2.07	1.72	20.5	109.0	2.0 dry	Pass
170	X	N1 (Centre)	6	2.02	1.58	27.5	109.0	2.5 dry	Pass
171	X	O2 (SSW)	8	1.93	1.49	29.5	102.0	0.5 dry	Pass

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	30/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Pad foot roller on layer 2 in grid F5, F6, G5 and G6



Stage 1: pad foot roller used on layer 8 in grid O2



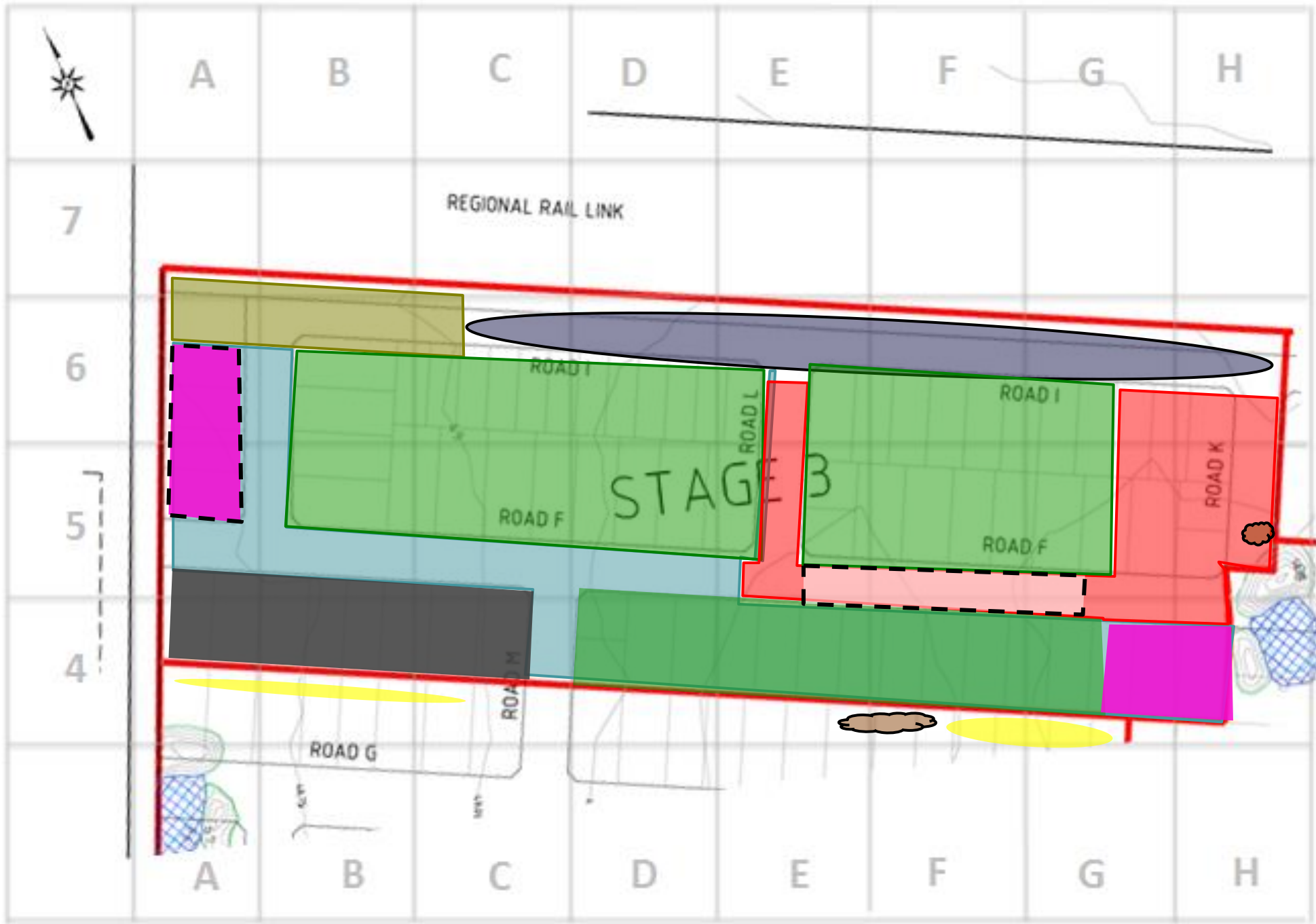
Compactor on layer 2 in grid F5, F6, G5 and G6



Stage 1: View of layer 7 placed in grid O1, O2 and layer 6 along road D in grid O1 (centre) and N1 (East)

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	30/10/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
04/11/2015	Wednesday	7:15 -14:45	Nirav Patel (all day)	Sunny, max 25°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	04/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- Previously stockpiled silty clay material used for layer 3 which was placed and moisture conditioned in grid A5, A6.
- Pad foot roller was used to make 4 passes on layer 3 in grid A5, A6. No tests undertaken.
- Silty clay material (mudstone) was placed on roadway in E5, F5 and G5.

Stage 1

- Layer 6 in grid O2 was ripped and moisture conditioned along Eastern edge of site in an L-shape prior to placing next layer
- Silty clay material (on site) was moisture conditioned, placed and rolled for layer 7 in an L-shape in grid O2 (East). This layer was not tested.

Fill/Material

- Approximately 740m³ of silty clay was imported to site for Stage 3 from Coburg and South Melbourne.


Test

- No Tests were taken today.
- Previous day's Stage 1 tests all passed.
- Previous day's Stage 3 tests

Comments/On-site Communication

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	04/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Pad foot roller and compactor on layer 3 in grid A5 and A6



Stage 1: dozer placing material on layer 6 in grid O2 (East) in L-Shape



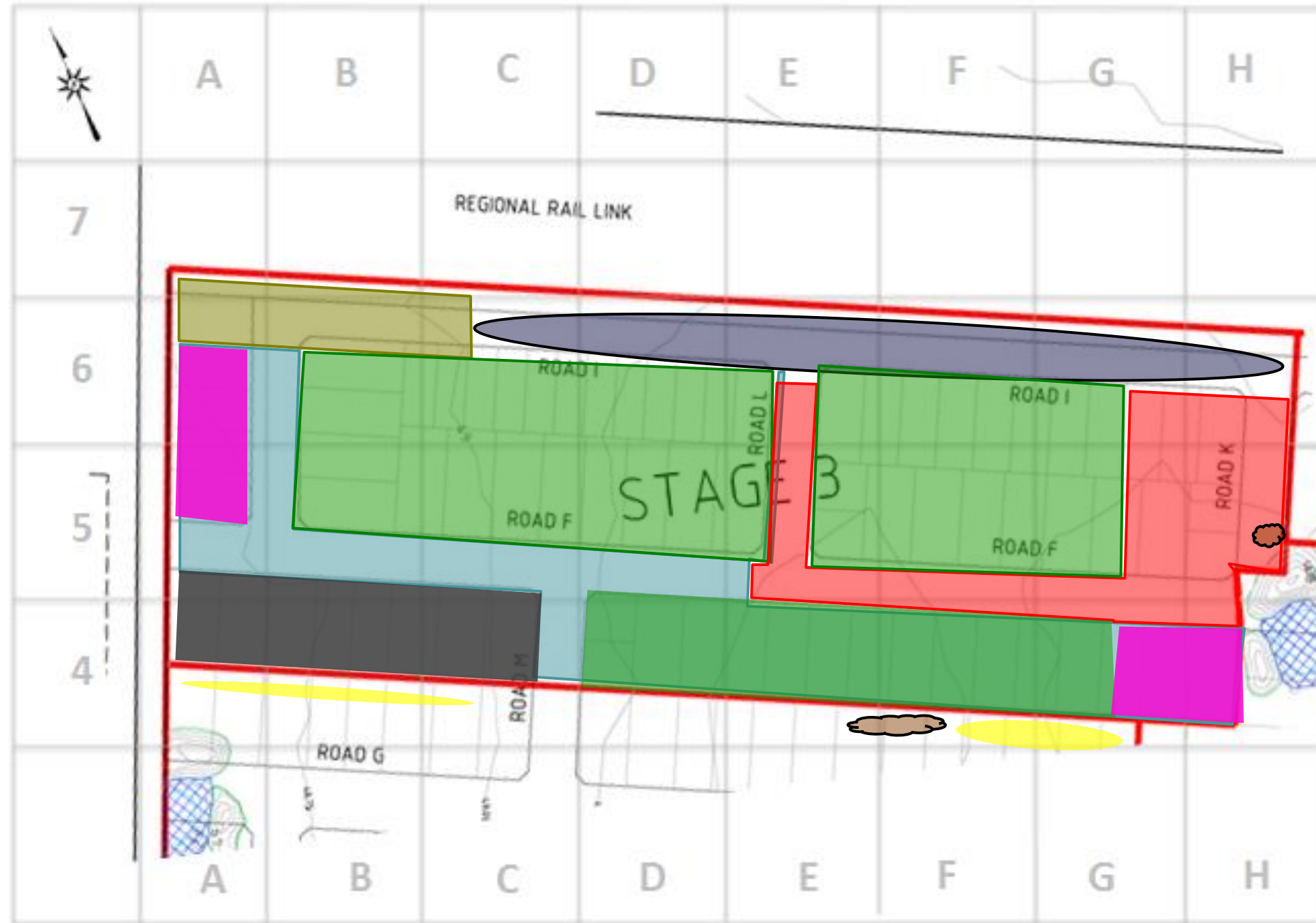
Compactor on layer 3 in grid A5 and A6



Stage 1: dozer ripping layer 6 prior to placing layer 7 in grid O2 (East) and water cart used for moisture conditioning

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	04/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
05/11/2015	Thursday	7:15 -7:30	Nirav Patel (all day)	Rainy, max 20°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	05/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

- Stage 3
- No works undertaken due to rainy conditions and flooding across site (advised by Paul-Fleet Plant Hire)
- Stage 1
- No works undertaken due to rainy conditions and flooding across site (advised by Tony-BMD)

Note: was advised by Paul and Tony that no works would be undertaken on the following day either (6/11/2015).

Fill/Material

- No fill was brought on site during the time Coffey was on-site.


Test

- No Tests were taken today.

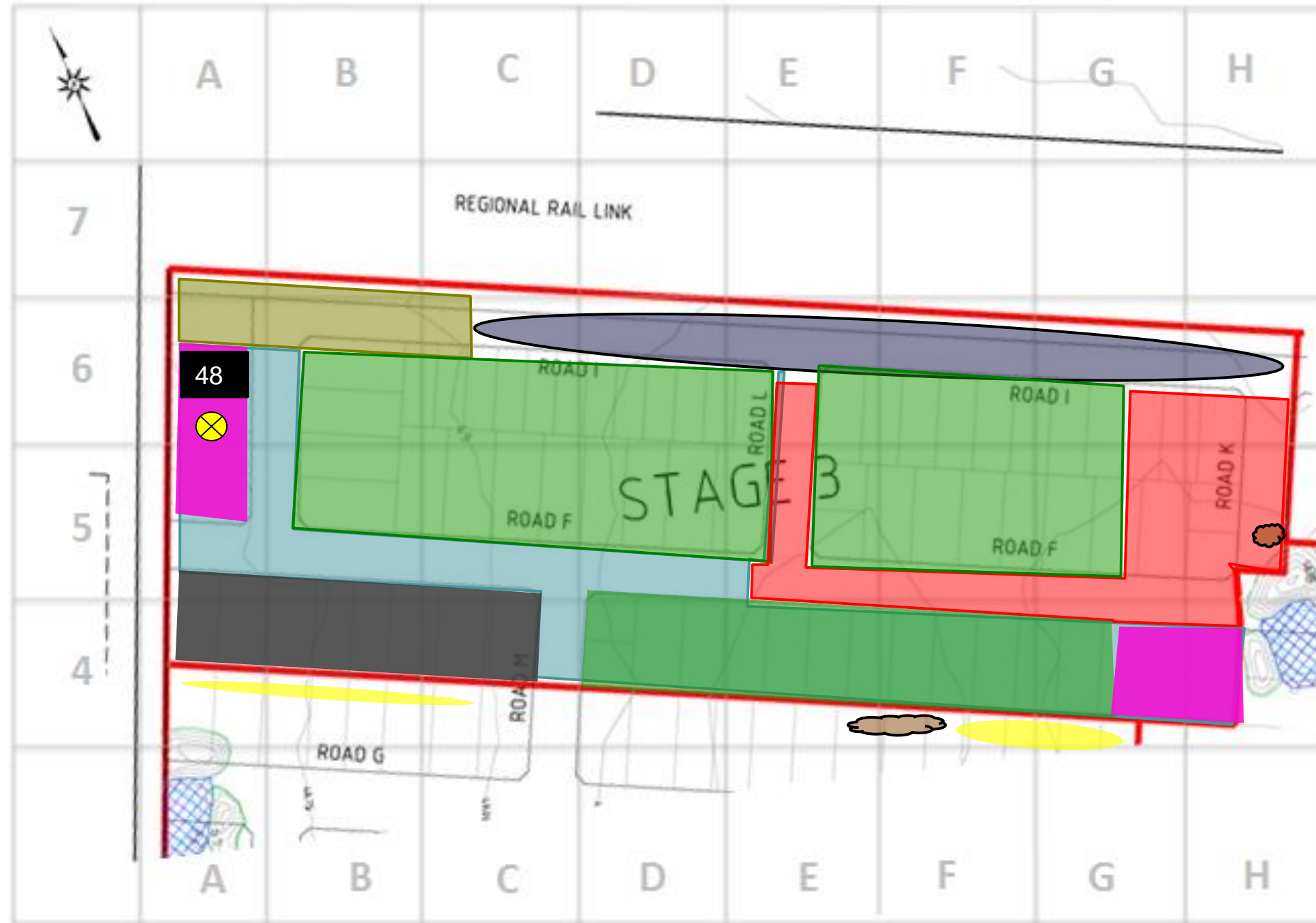
Comments/On-site Communication

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	05/11/2015		title:	DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
09/11/2015	Monday	10:25 -12:45	Nirav Patel (all day)	Sunny, max 35°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	09/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

- Stage 3
- No placement of fill undertaken today (advised by Paul-Fleet Plant Hire)
 - Pad foot roller was used to make 2 passes over A5 and A6 on layer 3 prior to testing.
- Stage 1
- Pad foot roller's vibrating mechanism was faulty however 2-3 passes were made on layer 7 in grid O2. Surface was moisture conditioned prior to rolling.
 - Layer 7 was being placed in grid M1 and M2 which was being moisture conditioned.

Fill/Material

- No fill was brought on site during the time Coffey was on-site.


Test

- A test (number 48) was undertaken in grid A6 on layer 3 as part of Stage 3 works.

Comments/On-site Communication

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
48	X	A6	3	2.00	1.65	21.5	102.5	0.5 dry	Pass

revision	description			drawn	approved	date	drawn	NP		client:	SPIIRE		
							approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
							date	09/11/2015		title:	DAILY RECORD - LEVEL 1 GITA		
							scale	NTS		project no:	GEOTABTF09878AA	figure no:	
							original size	A3					



Site conditions upon arrival. A few locations on site with water pooling (varying in size from a small puddle to a large area)



Stage 1: Water cart moisture conditioning ripped surface layer 6 in grid M1 and M2



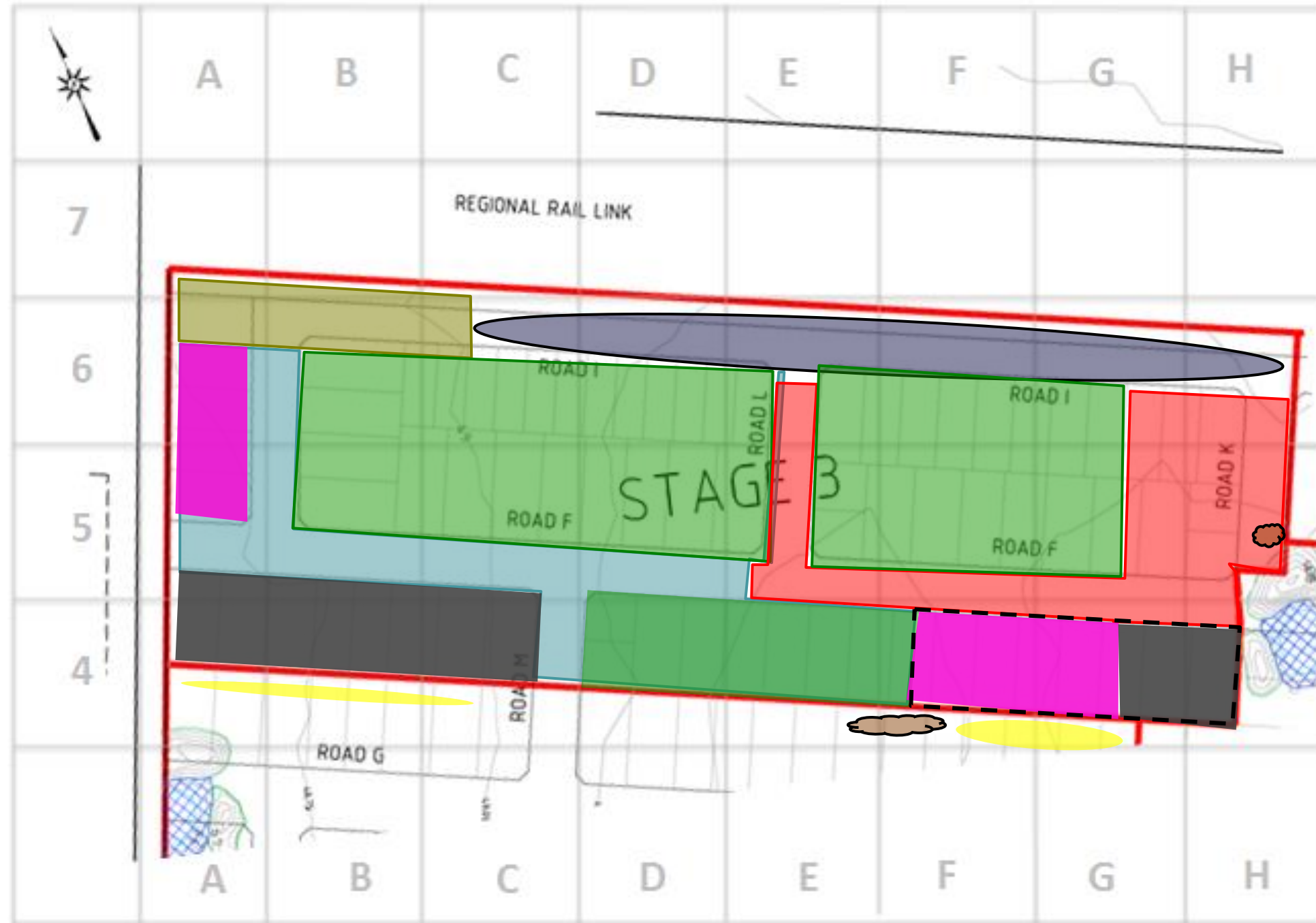
Stage 1: pad foot roller making passes on layer Compactor on layer 7 in grid O2



Stage 1: dozer ripping layer 6 prior to placing layer 7 in grid M1 and M2

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	09/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
10/11/2015	Tuesday	7:15 -2:35	Nirav Patel (all day)	Rainy, max 20°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description				drawn	approved	date	drawn	NP		client:	SPIRE	
								approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	10/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- Stockpiled and imported silty clay and sandy clay was placed in layer 3 in grid F4 and G4. The same materials were also placed as part of layer 4 in grid G4 (East) and H4 (West). The fill was moisture conditioned.
- Pad foot roller was used to make 2-3 passes on the area worked on today.
- Works were also undertaken that involved placing material in an area that was flooded in grid G5, H5 G6 and H6.

Stage 1

- Pad foot roller was used to make passes over grid N2 prior to testing.
- More on-site silty clay material which was being moisture conditioned was placed as part of layer 6 in grid M1 and M2 to extend upon the works conducted on the previous day.
- A pad foot roller was used to make 2-3 passes on layer 6 in a small section in grid M1 (North) and a test was undertaken.

Fill/Material

- 80m³ of silty clay material was imported on site from St Albans, 700m³ of silty clay (mudstone) from Coburg and 600m³ of sandy clay from South Melbourne.

Test

- A test (number 172) was undertaken in grid N2 on layer 7 as part of Stage 1 works.
- A test (number 173) was undertaken in grid M1 (North) on layer 6 as part of Stage 1 works.

Comments/On-site Communication

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
172	X	N2	7	1.93	1.58	22.5	98.0	0.0	Pass
173	X	M1	6	1.95	1.58	23.0	97.5	0.5 wet	Pass

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	10/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Stage 3: Compactor placing material as part of layer 3 and layer 4 (refer to Stage 3 site plan above)



Stage 3: Pad foot roller being used to roll layer 3 and 4 (refer to Stage 3 site plan above)



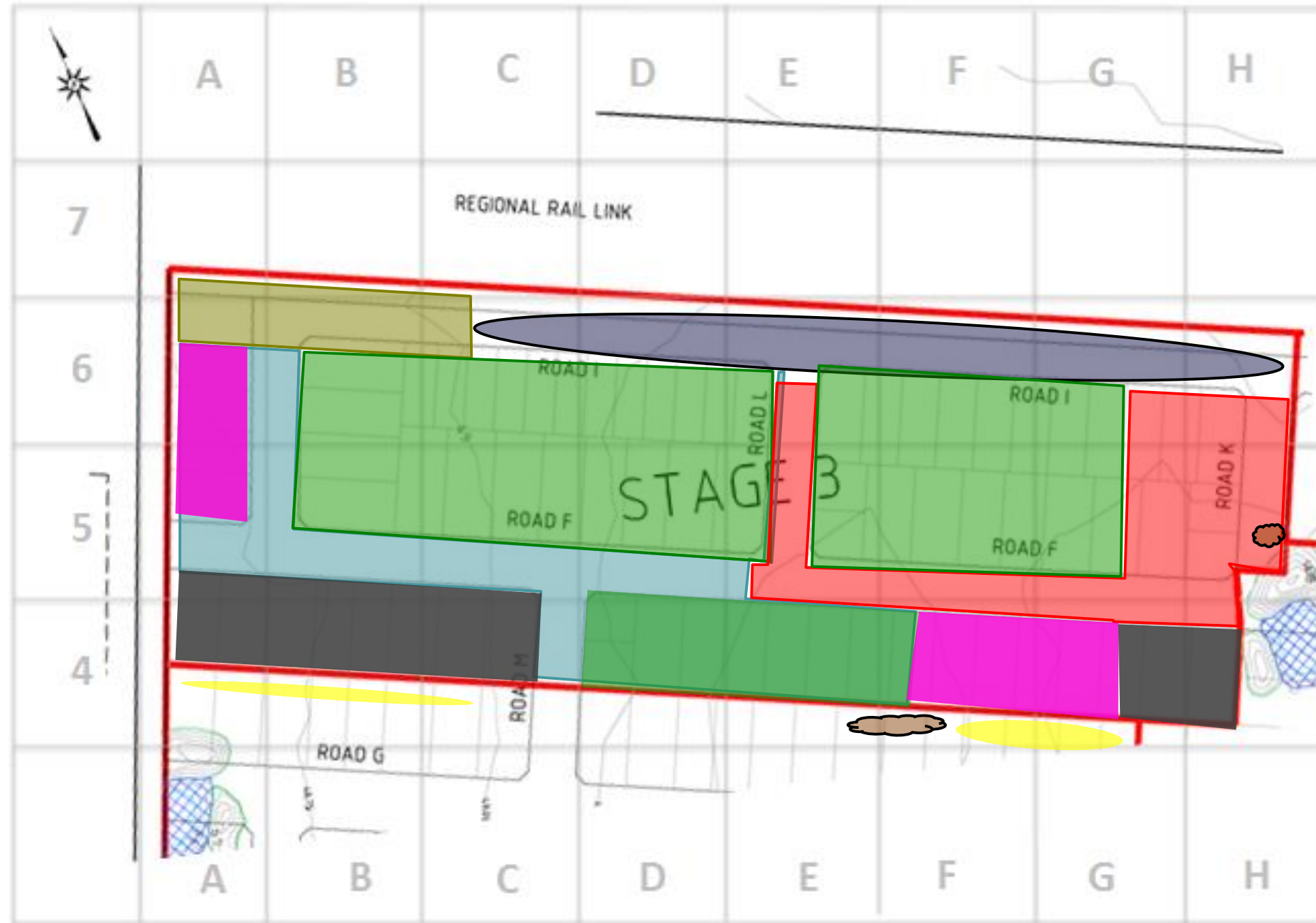
Stage 1: pad foot roller making passes on layer Compactor on layer 6 in grid M1



Stage 1: dozer placing material as part of layer 6 in grid M1 and M2

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	10/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
12/11/2015	Thursday	7:30 -2:25	Nirav Patel (all day)	Cloudy with showers, max 25°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	12/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- No works undertaken today and none scheduled for tomorrow (13/11/15) as confirmed with Paul (Fleet Plant Hire).

Stage 1

- Pad foot roller was used to make 2-3 passes over grid M2.
- More on-site silty clay material which was being moisture conditioned was placed as part of layer 6 in grid K1 and K2 and the western side of grid L1 and L2. The layer thickness ranges from approximately 150-250mm thickness for the pad that was worked on today.

Fill/Material

- No fill was imported to site.


Test

- 1 test undertaken in Stage 1 on layer 6 in grid M2.

Comments/On-site Communication

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
174	X	M2	6	1.94	1.54	25.5	102.0	0.0	Pass

revision	description			drawn	approved	date	drawn	NP		client:	SPIIRE		
							approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
							date	12/11/2015		title:	DAILY RECORD - LEVEL 1 GITA		
							scale	NTS		project no:	GEOTABTF09878AA	figure no:	
							original size	A3					



Stage 1: view of layer 6 in grid M2 (facing North)



Stage 1: Pad foot roller being used to compact layer 6 in grid M2 prior to testing



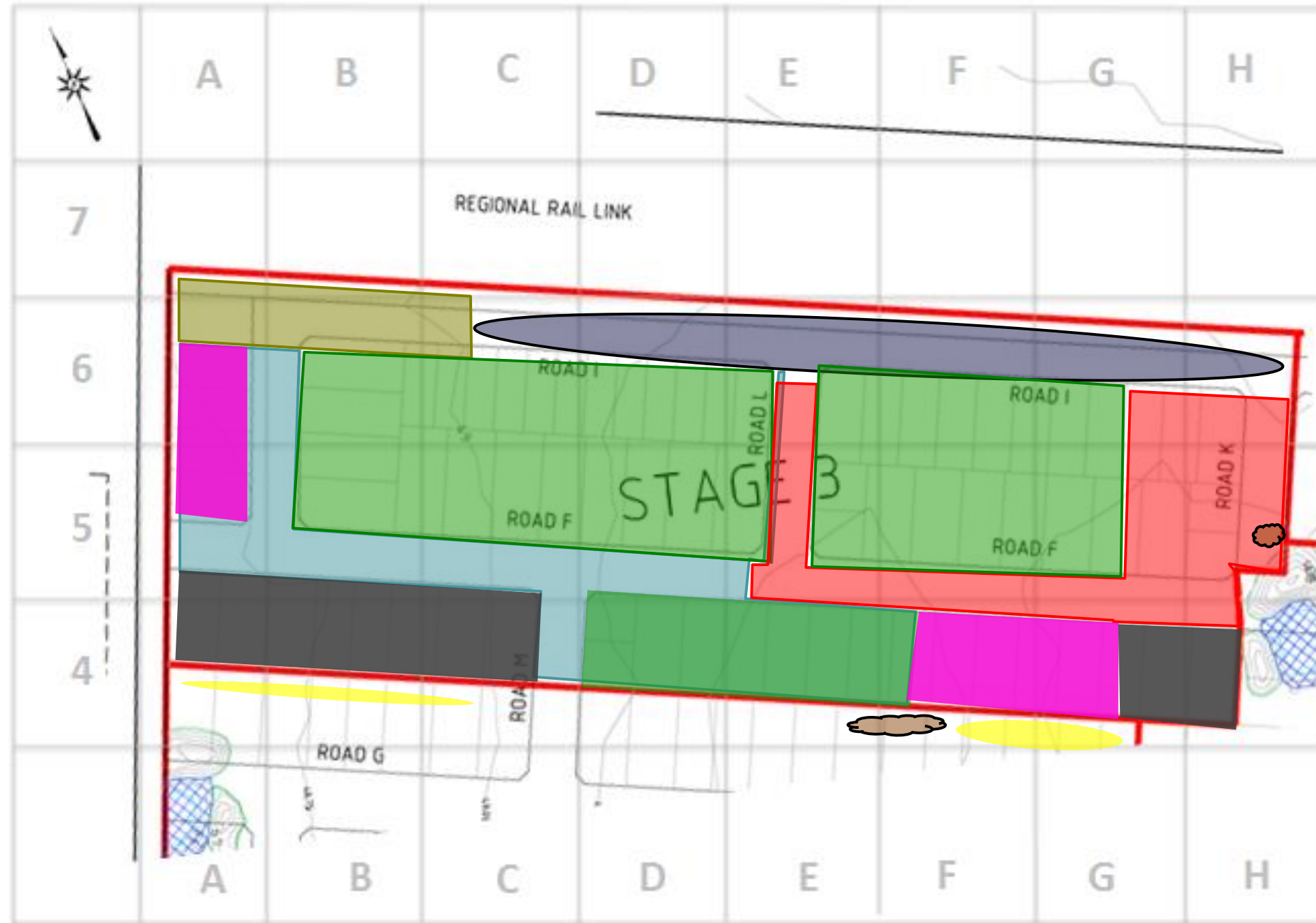
Stage 1: moisture conditioning silty clay material



Stage 1: dozer placing material as part of layer 6 in grid M1 and M2

revision	description				drawn	approved	date		client:	SPIIRE	
									approved	SS	
									date	12/11/2015	
									scale	NTS	
									original size	A3	
								project:	LITTLE GREEN ESTATE- STAGE 3		
								title:	DAILY RECORD – LEVEL 1 GITA		
								project no:	GEOTABTF09878AA	figure no:	

Date	Day	Time on Site	Personnel	Weather	Mobile plant
13/11/2015	Friday	7:30 -2:15	Nirav Patel (all day)	Sunny, max 25°C	1 x Water Cart 1 x Compactor 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	13/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- No works undertaken today. Works to restart on Monday 16/11/15 as confirmed by Paul (Fleet Plant Hire).

Stage 1

- Pad foot roller was used to make 2-3 passes over grid K1 and K2.
- More on-site silty clay material which was being moisture conditioned was placed as part of layer 6 in grid K1 and K2. The layer thickness ranges from approximately 150-250mm thickness.

Fill/Material

- No fill was imported to site.

Test

- 1 test undertaken in Stage 1 on layer 6 in grid K1.
- 1 test undertaken in Stage 1 on layer 6 in grid K2

Comments/On-site Communication

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
175	X	K1	6	2.04	1.60	28.0	102	2.5 dry	Pass
176	X	K2	6	1.92	1.51	27.5	98	0.0	Pass

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	13/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Stage 1: newly ripped section prior to placement of fill in grid K1 and K2 as part of layer 6



Stage 1: Pad foot roller being used to compact layer 6 in grid K1 and K2 prior to testing



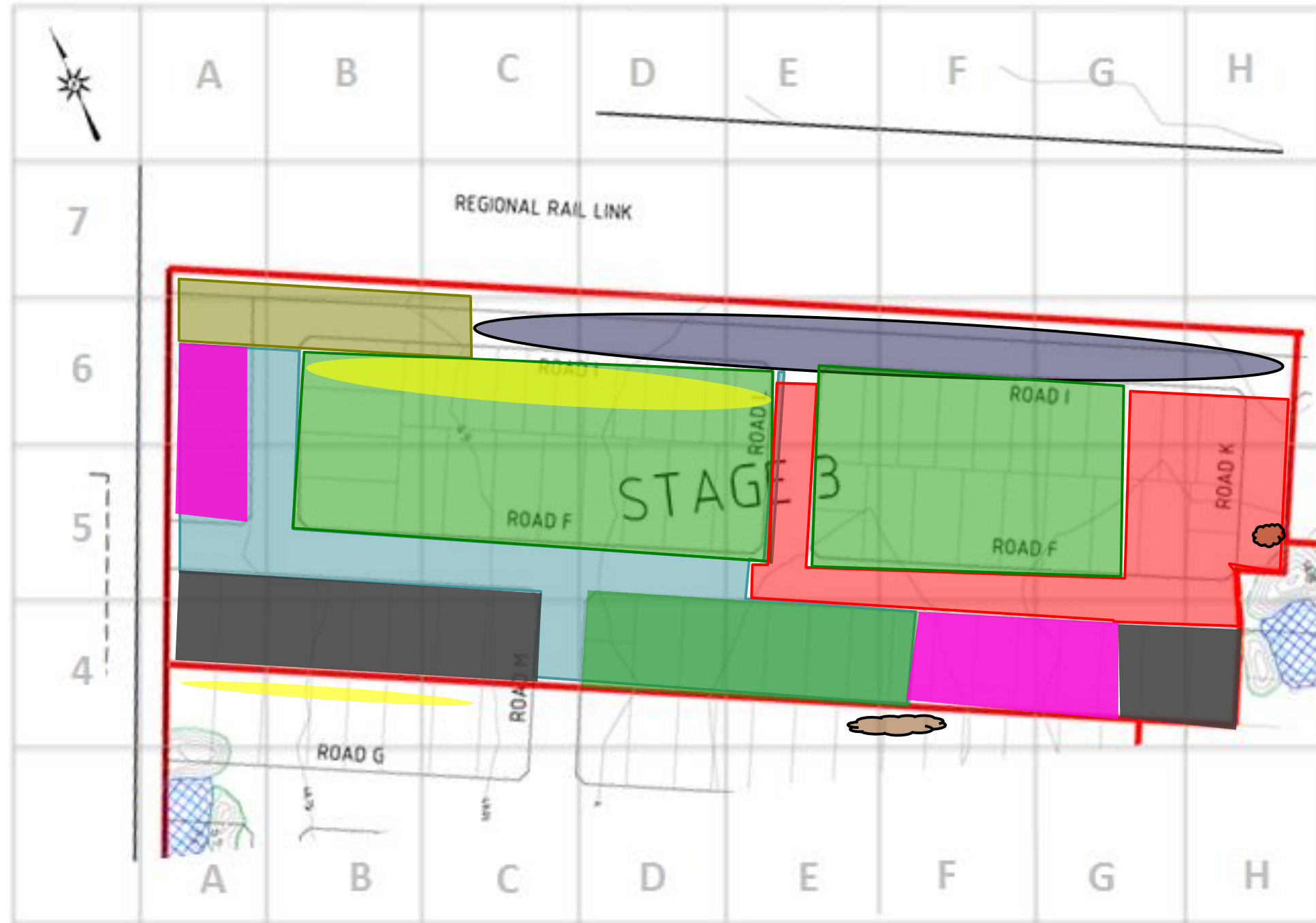
Stage 1: moisture conditioning ripped silty clay material



Stage 1: dozer placing material as part of layer 6 in grid K1 and K2

revision	description	drawn	approved	date		drawn	NP		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	13/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
16/11/2015	Monday	7:00 -2:35	Nirav Patel (all day)	Sunny, max 27°C	1 x Water Cart 1 x Bulldozer (CAT D6T) 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	14/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- No works undertaken today. Imported material was stockpiled in grid B6, C6, D6 and E6. Flooded area in grid G6 and H6 was worked upon to reduce the amount of water.

Stage 1

- More on-site silty clay material which was being moisture conditioned was placed as part of layer 6 in grid K1, K2, L1 and L2. The layer thickness ranges from approximately 150-250mm thickness.

Fill/Material

- A total of 940m3 of silty clay was imported from Ravenhall Prison, Ivanhoe and from Laverton.


Test

- No tests were undertaken today

Comments/On-site Communication

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	16/11/2015		title:	DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Stage 1: silty clay fill being moisture conditioned prior to placement



Stage 3: today's imported fill which has been stockpiled



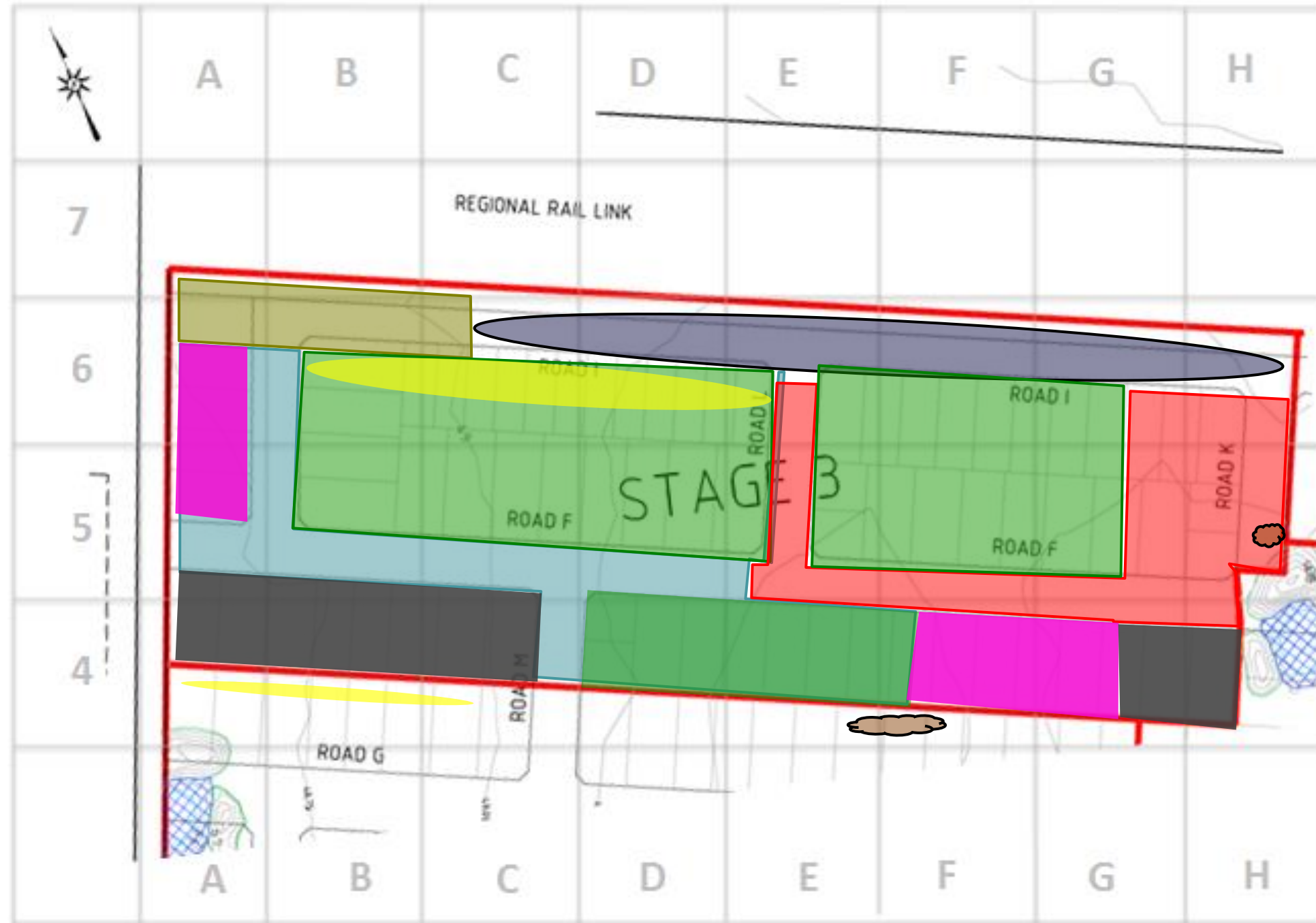
Stage 1: dozer ripping layer 5 prior to placement of layer 6



Stage 3: site conditions of stage 3 facing North

revision	description	drawn	approved	date		drawn	NP		client:	SPIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	16/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
17/11/2015	Tuesday	7:00 -2:35	Nirav Patel (all day)	Sunny, max 30°C	1 x Water Cart 1 x Bulldozer (CAT D6T) 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	17/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- No works undertaken today. It was advised by Paul (Fleet Plant Hire) that no fill material was going to be imported to site.

Stage 1

- More on-site silty clay material which was being moisture conditioned was placed as part of layer 6 in grid K1, K2. The layer thickness ranges from approximately 150-250mm thickness.
- A pad foot roller was used to make 2-3 passes on layer 6 in grid L1 and L2.

Fill/Material

- No fill imported to site today.

Test

- 1 test (177) was undertaken in Stage 1 on layer 6 in grid K1 (West)

Comments/On-site Communication

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
177	X	K1 (W)	6	2.02	1.62	25.0	103	0.5 dry	Pass

revision	description			drawn	approved	date	drawn	NP		client:	SPIIRE	
							approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
							date	17/11/2015		title:	DAILY RECORD - LEVEL 1 GITA	
							scale	NTS		project no:	GEOTABTF09878AA	figure no:
							original size	A3				



Stage 1: ripped layer 5 being moisture conditioned prior to placement of layer 6




Stage 1: pad foot roller being used on layer 6 in grid L1



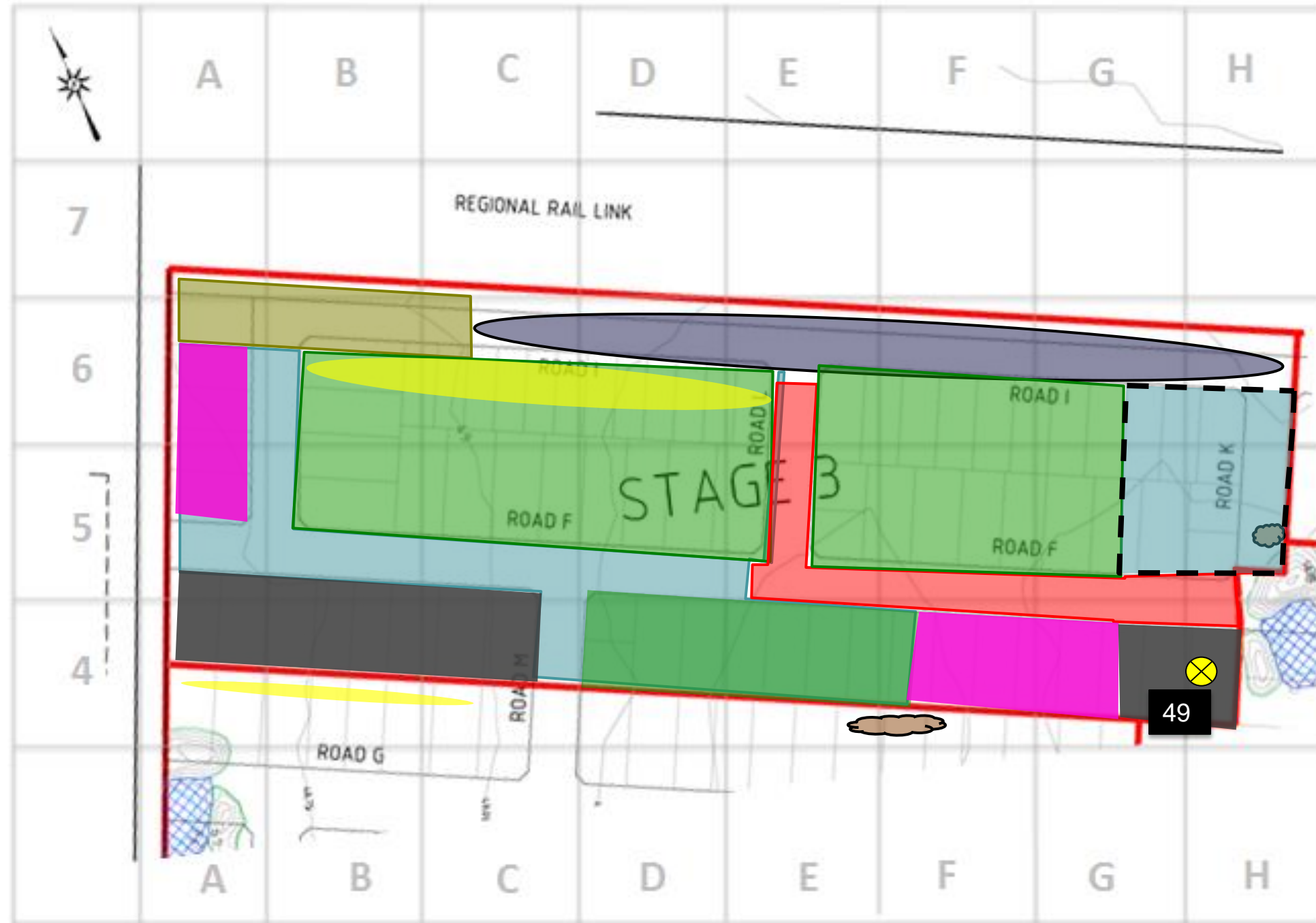
Stage 1: dozer ripping layer 5 prior to placement of layer 6



Stage 1: pad foot roller being used on layer 6 in grid K1

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	17/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
18/11/2015	Wednesday	7:15 -1:45	Nirav Patel (all day)	Sunny, max 30°C	1 x Water Cart 1 x Bulldozer (CAT D6T) 1 x Compactor 815F 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	18/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- Layer 1 was placed upon grid G5, G6, H5 and H6 after subgrade was ripped and moisture conditioned. Silty clay and sandy clay material was placed in this pad and then compacted upon. At the time Coffey was on site, pad foot roller had not been used.

Stage 1

- More on-site silty clay material which was being moisture conditioned was placed as part of layer 6 in grid K2. The layer thickness ranges from approximately 150-250mm thickness. The same fill material was used to place layer 6 in grid J2 after layer 5 had been ripped and moisture conditioned.
- A pad foot roller was used to make 2-3 passes on layer 6 in grid K2.

Fill/Material

- 2180m3 of silty clay and sandy clay was imported from Ravenhall Prison, Ivanhoe, Melton


Test

- 1 test (49) was undertaken in Stage 3 on layer 4 in grid H4 (West)

Comments/On-site Communication

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
49	X	H4 (W)	4	2.05	1.77	15.5	102.5	2.5 dry	Pass

revision	description			drawn	approved	date	drawn	NP		client:	SPIIRE	
							approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
							date	18/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
							scale	NTS		project no:	GEOTABTF09878AA	figure no:
							original size	A3				



Stage 1: ripped layer 5 being moisture conditioned prior to placement of layer 6 in grid K2



Stage 1: pad foot roller being used on layer 6 in grid K1 and K2



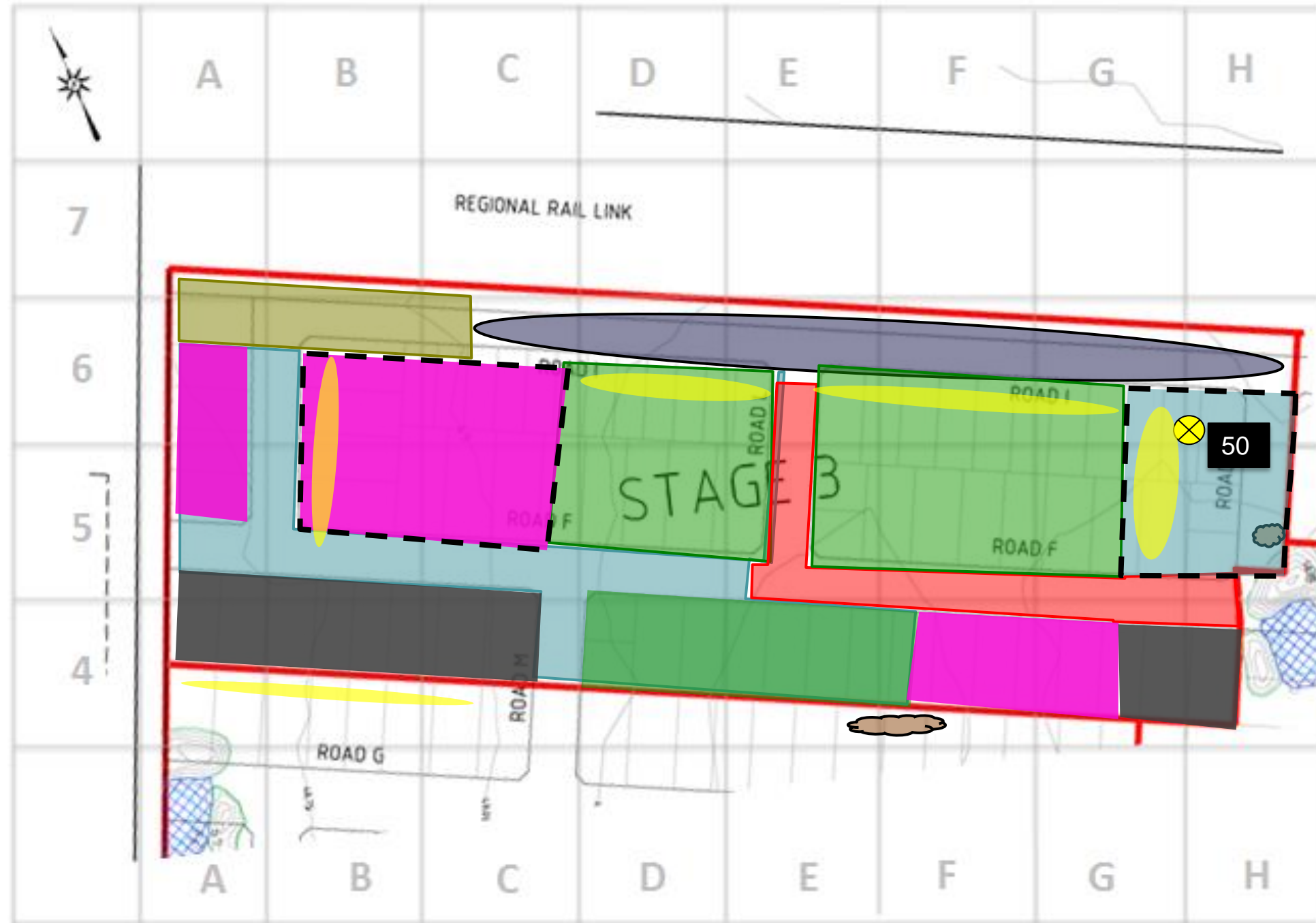
Stage 3: dozer ripping subgrade layer prior to moisture conditioning and placement of layer 1



Stage 3: compactor being used on layer 1 in grid G5, G6, H5 and H6

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	18/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
19/11/2015	Thursday	7:15 -2:00	Nirav Patel (all day) Ronn Bigili	Sunny, max 35°C	1 x Water Cart 1 x Bulldozer (CAT D6T) 1 x Compactor 815F 1 x Padfoot Roller



Legend


	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date		drawn	NP/RB		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	19/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Subgrade Inspection	
Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> Layer 3 was placed in grid B5, B6, C5 and C6 after the subgrade was ripped and moisture conditioned. Silty clay and sandy clay material was placed in this pad and then compacted upon. The worked upon area has not been pad foot rolled. <p>Stage 1</p> <ul style="list-style-type: none"> Silty clay fill material was placed as part of layer 6 in grid J2 and J1 (North West- refer to Stage 1 plan) after layer 5 had been ripped and moisture conditioned. A pad foot roller was used to make 3-4 passes on layer 6 in grid K2 prior to testing. The pad foot roller was also used to make 2-3 passes on layer 6 in grid J2 prior to testing A grader was used to place topsoil material in sections of grid L1, L2, M1, M2, N1, N2, O1 and O2.
Fill/Material	<ul style="list-style-type: none"> 2000m3 of silty clay from Melton, 600m3 of silty clay from South Melbourne and 400m3 of silty from Ravenhall Prison were imported for use on Stage 3.
Test	<ul style="list-style-type: none"> 1 test (178) was undertaken in Stage 1 on layer 6 in grid K2. 1 test (179) was undertaken in Stage 1 on layer 6 in grid J2. 1 test (50) was undertaken in Stage 3 on layer 1 in grid G6.
Comments/On-site Communication	BMD enquired whether they'd be able to place an additional layer (Layer 7) upon grid J2 after testing (test number 179) was completed. The results of the nuclear field density and moisture test were given to BMD and based upon previous tests with similar results, that they may be able to place upon it. However caution was expressed by Coffey and it was explained that until official lab results were received the next day, that we couldn't guarantee the test had passed. BMD did not proceed with placing the additional layer

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
178	X	K2	6	2.00	1.58	26.5	100	0.5 wet	Pass
179	X	J2	6	1.92	1.43	34.0	100	3.0 wet	Pass
50	X	G6	1	1.80	1.43	25.5	98.5	3.0 dry	Pass

revision	description	drawn	approved	date	drawn	NP/RB		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	19/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Stage 1: placement of layer 6 in grid J2



Stage 1: pad foot roller being used on layer 6 in grid J2 prior to testing



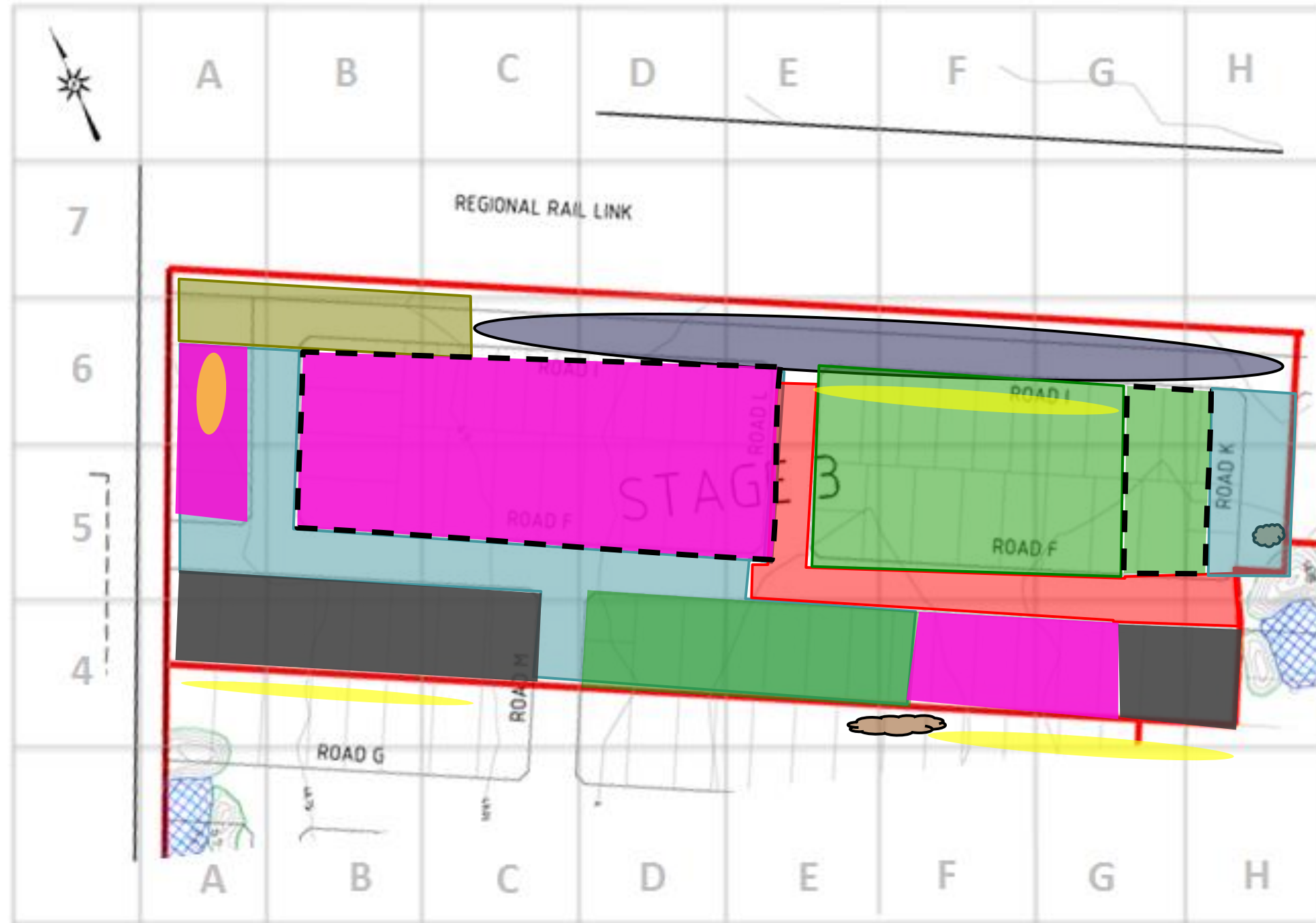
Stage 3: compactor placing layer 3 whilst being moisture conditioned in grid B5, B6, C5 and C6














Stage 3: pad foot roller being used on layer 1 in grid G5 and G6 prior to testing

revision	description	drawn	approved	date		drawn	NP/RB		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	19/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
20/11/2015	Friday	7:15 -12:00	Nirav Patel	Showers, max 22°C	1 x Water Cart 1 x Bulldozer (CAT D6T) 1 x Compactor 815F 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date		drawn	NP		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	20/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Subgrade Inspection

Placing/Compaction

Stage 3

- Layer 3 was placed in grid B5, B6, C5, C6, D5, D6, E5 and E6 after the subgrade was ripped and moisture conditioned. Silty clay and sandy clay material was placed in this pad and then compacted upon. The worked upon area has not been pad foot rolled when Coffey departed site.
- Layer 2 was placed in grid G5, G6, H5, H6. It was moisture conditioned and rolled.

Stage 1

- A grader was used to place topsoil material in sections of grid L1, L2, M1, M2, N1, N2, O1 and O2 (Refer Stage 1 plan).

Fill/Material

- 1160m3 of silty clay (Mudstone) from Coburg, 360m3 of silty clay from South Melbourne and 1360m3 of silty from Ravenhall Prison were imported for use on Stage 3.

Test

- No testing was undertaken today

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	20/11/2015		title:	DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Stage 1: placement of topsoil in in grid O1 and O2



Stage 1: grader being used in grid N1, N2, O1 and O2



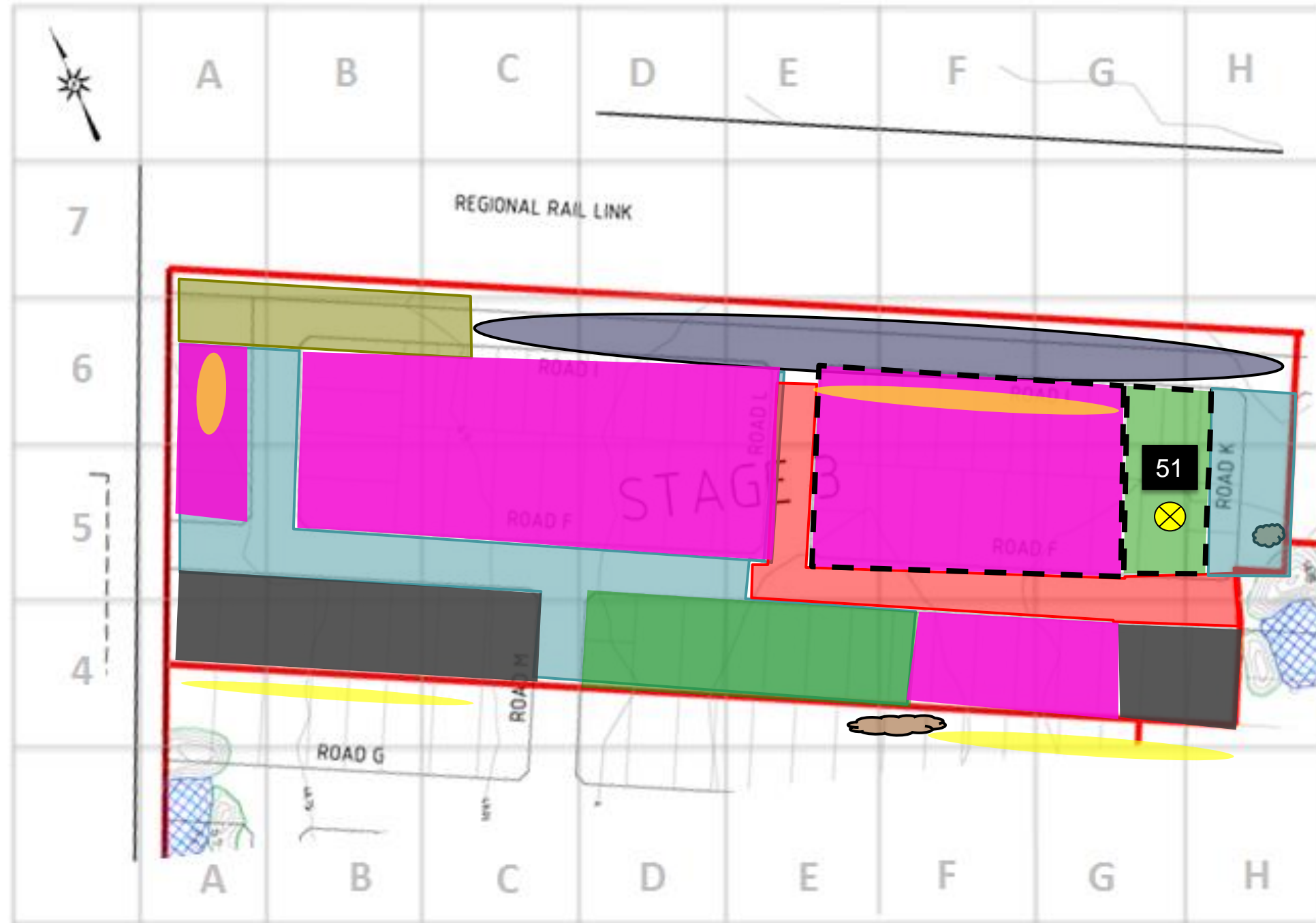
Stage 3: compactor placing layer 3 whilst being moisture conditioned in grid B5, B6, C5, C6, D5 and D6



Stage 3: water cart being used on layer 3 in grid D5 and D6 prior to placement of fill

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	20/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
23/11/2015	Monday	7:45 -1:45	Nirav Patel	Showers, max 20°C	1 x Water Cart 1 x Bulldozer (CAT D6T) 1 x Compactor 815F 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description				drawn	approved	date	drawn	NP		client:	SPIRE	
								approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	23/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 3

- Layer 3 was placed in grid E5, E6,F5, F6, G5 and G6 after layer 2 was scarified and moisture conditioned. Silty clay and sandy clay material was placed in this pad and then compacted upon. The worked upon area had not been pad foot rolled when Coffey departed site.
- Layer 2 was compacted using the compactor and pad foot roller in grid G5, G6, H5, H6. It was moisture conditioned and rolled prior to testing.

Stage 1

- A grader was used to place topsoil material in sections of grid N1, N2, O1 and O2, L3, M3 and N3 (refer Stage 1 plan).

Fill/Material

- 1160m3 of silty clay (Mudstone) from Coburg was imported for use on Stage 3.

Test

- 1 test (51) was undertaken on layer 2 in grid G5 in Stage 3.

Comments/On-site Communication

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
51	X	G5	2	1.92	1.44	33.0	104.5	2.0 wet	Pass

revision	description			drawn	approved	date	drawn	NP		client:	SPIIRE		
							approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
							date	23/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
							scale	NTS		project no:	GEOTABTF09878AA	figure no:	
							original size	A3					



Stage 1: placement of topsoil in in grid O1, O2, N1 and N2



Stage 1: grader being used in grid N1, N2, O1 and O2



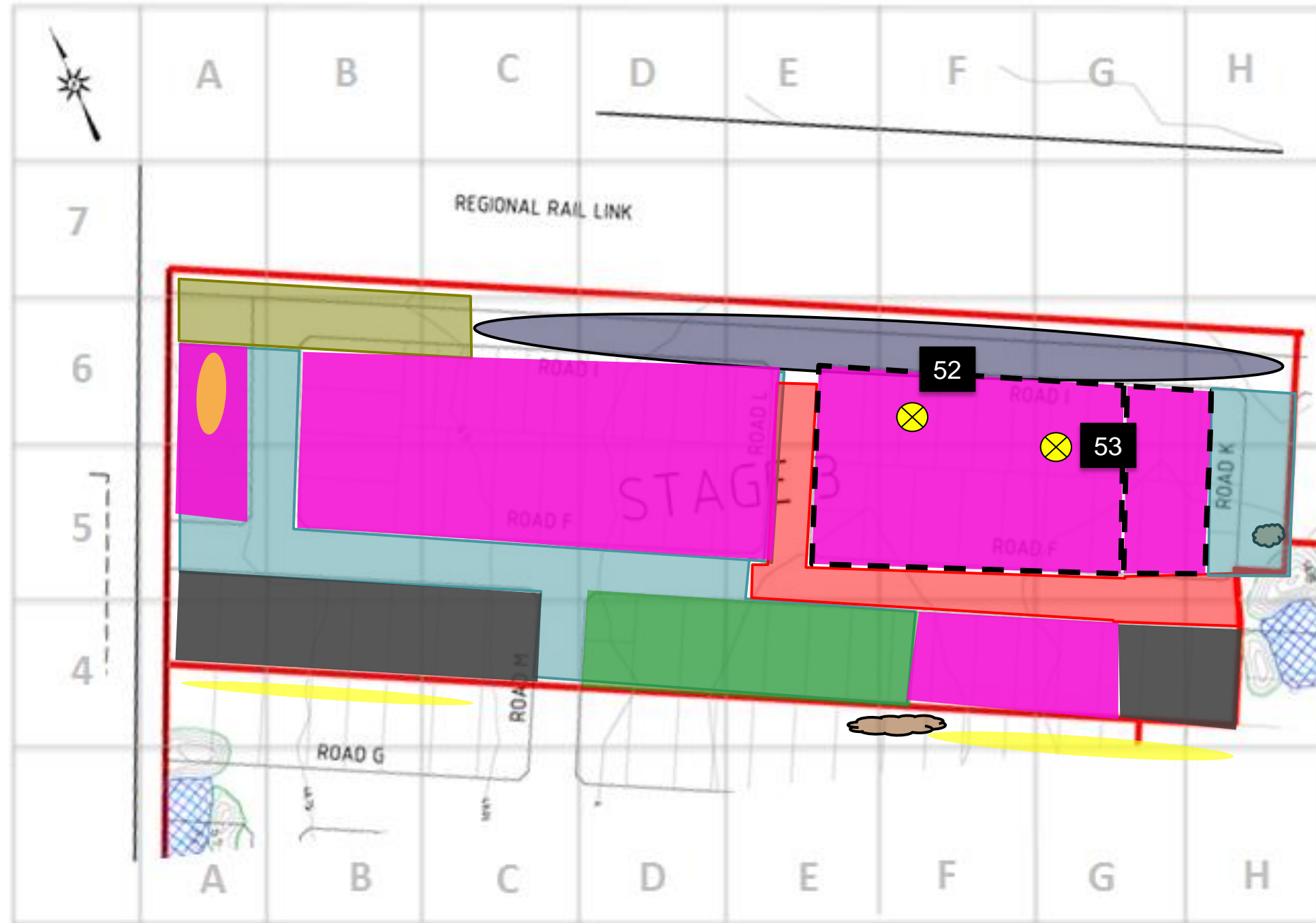
Stage 3: compactor placing layer 3 whilst being moisture conditioned in grid E5, E6, F5, F6, G5 and G6



Stage 3: water cart being used on layer 3 in grid G5 and G6 prior to testing

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	23/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
24/11/2015	Tuesday	7:00 -3:00	Nirav Patel	Sunny, max 25°C	1 x Water Cart 1 x Bulldozer (CAT D6T) 1 x Compactor 815F 1 x Padfoot Roller 1 x dozer (CAT DX5 XL)



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date		drawn	NP		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	24/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Subgrade Inspection

Placing/Compaction

Stage 1

- On-site silty clay material was placed to expand layer 6 as part of grid I1, I2, J1 and J2. It was moisture conditioned and rolled with a pad foot roller.

Stage 3

- Layer 3 was placed in grid E5, E6, F5, F6, G5, G6, H4 and H6 and moisture conditioned. Silty clay and sandy clay material was placed in this pad and then compacted upon. The worked upon area had been moisture conditioned prior to being rolled. Test 52 and 53 were undertaken as indicated on the Stage 3 site plan.
- Layer 3 in grid D5, D6, E5 (W) and E6 (W) was reworked due to a lack of moisture and involved ripping and being watered prior to a compactor being used. It had not been rolled prior to Coffey departing site.

Stage 4

- A CAT tractor scraper was used on Stage 4 to strip the topsoil and expose natural ground as indicated on the Stage 4 site plan.

Fill/Material

- 1160m³ of silty clay (Mudstone) from Coburg and XXm³ of silty clay from Ravenhall Prison was imported for use on Stage 3.
- Stockpiled silty clay material excavated from the trenches was used to expand on Stage 1 works.

Test


- 2 tests (52 and 53) were undertaken on layer 3 in grid G5 in Stage 3.

Comments/On-site Communication

- A Spreadsheet with imported materials to site from the start of the job to date, was updated by Coffey and sent to BMD for cross check. We note that Coffey's spreadsheet may not contain all imported material source names.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
52	X	F6	3	1.82	1.58	15.0	92.5	2.0 dry	Fail
53	X	G5 (NW)	3	2.11	1.82	16.0	102.5	4.0 dry	Fail

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	24/11/2015		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: dozer ripping layer 3 in grid D5, D6, E5 (W) and E6 (W) to add moisture to layer



Stage 1: dozer placing more fill as part of layer 6 in grid I1, I2, J1 and J2



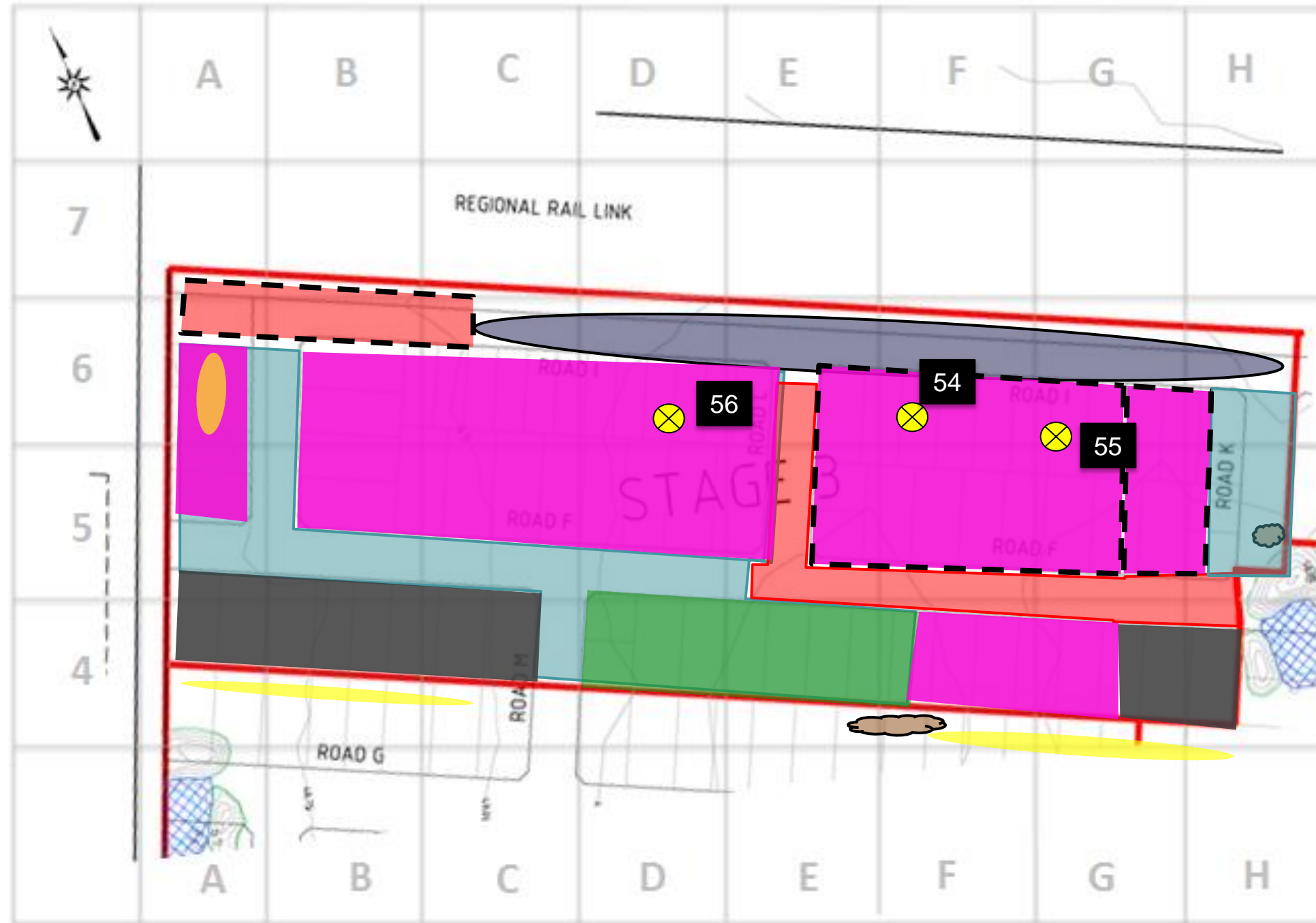
Stage 3: layer 3 being moisture conditioned in grid G5, G6, H5 and H6



Stage 4: scraper removing topsoil layer as shown in Stage 4 site plan above

revision	description				drawn	approved	date	drawn	NP		client:	SPIIRE		
								approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
								date	24/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
								scale	NTS		project no:	GEOTABTF09878AA	figure no:	
								original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
25/11/2015	Wednesday	7:00 -3:15	Nirav Patel	Sunny and windy, max 33°C	1 x Water Cart 1 x Bulldozer (CAT D6T) 1 x Compactor 815F 1 x Padfoot Roller 1 x dozer (CAT DX5 XL)



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description				drawn	approved	date	drawn	NP	client: SPIRE	
								approved	SS		project: LITTLE GREEN ESTATE- STAGE 3
								date	25/11/2015		
								scale	NTS		
								original size	A3		
									title: DAILY RECORD – LEVEL 1 GITA		
										project no: GEOTABTF09878AA figure no:	

coffey

Subgrade Inspection

Placing/Compaction

Stage 1

- On-site silty clay material was placed to expand layer 6 as part of grid I1, I2, J1 and J2. It was moisture conditioned and rolled with a pad foot roller. Test 180 was undertaken in grid J1 on layer 6.

Stage 3

- Layer 3 was placed in grid G5 and G6 as well as parts of H4 and H6 and moisture conditioned. Silty clay and sandy clay material was placed in this pad and then compacted upon. Layer 3 of grid E5, E6, F5, F6, G5 (W) and G6 (W) was ripped and re-worked due to failures of test 52 and 53. The area was moisture conditioned, compacted and rolled prior to re-tests (54 and 55). Layer 3 in grid D5, D6, E5 (W) and E6 (W) was reworked due to a lack of moisture and involved ripping and being watered prior to a compactor being used. The area was rolled and test 56 was undertaken.

Stage 4

- A CAT tractor scraper was used on Stage 4 to strip the topsoil and expose natural ground as indicated on the Stage 4 site plan.

Fill/Material

- 600m³ of silty clay from South Melbourne and 740m³ of silty clay from Ravenhall Prison was imported for use on Stage 3.
- Stockpiled silty clay material excavated from the trenches was used to expand on Stage 1 works.

Test


- 2 re-tests (54 and 55) were undertaken on layer 3 in Stage 3 as shown on the Stage 3 site plan for test 52 and 53 respectively.
- 1 test (56) was undertaken on layer 3 in Stage 3 as shown on the Stage 3 site plan.
- 1 test (180) was undertaken on layer 6 in stage 1 as shown on the Stage 1 site plan.

Comments/On-site Communication

BMD and Fleet Plant Hire were advised to remove large roots from the areas recently scrapped. Some areas of Stage 4 require for a grader to level the surface and then proof-rolling will be undertaken for the Northern side of Stage 3 and the whole of Stage 4. The large roots were marked with spray paint.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
54	52	F6	3	2.1	1.76	19	104.0	0.0	Pass
55	53	G5 (NW)	3	2.02	1.69	19.5	98.5	0.5 dry	Pass
56	X	D6	3	1.88	1.49	26.5	98..5	0.0	Pass
180	X	J1	6	1.97	1.54	28.0	100.5	0.5 wet	Pass

revision	description	drawn	approved	date	drawn	NP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	25/11/2015		title:	DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Stage 3: pad foot roller on layer 3 after being re-worked in grid E5, E6, F5, F6, G5 (W) and G6 (W)



Stage 1: dozer placing more fill as part of layer 6 in grid I1, I2, J1 and J2



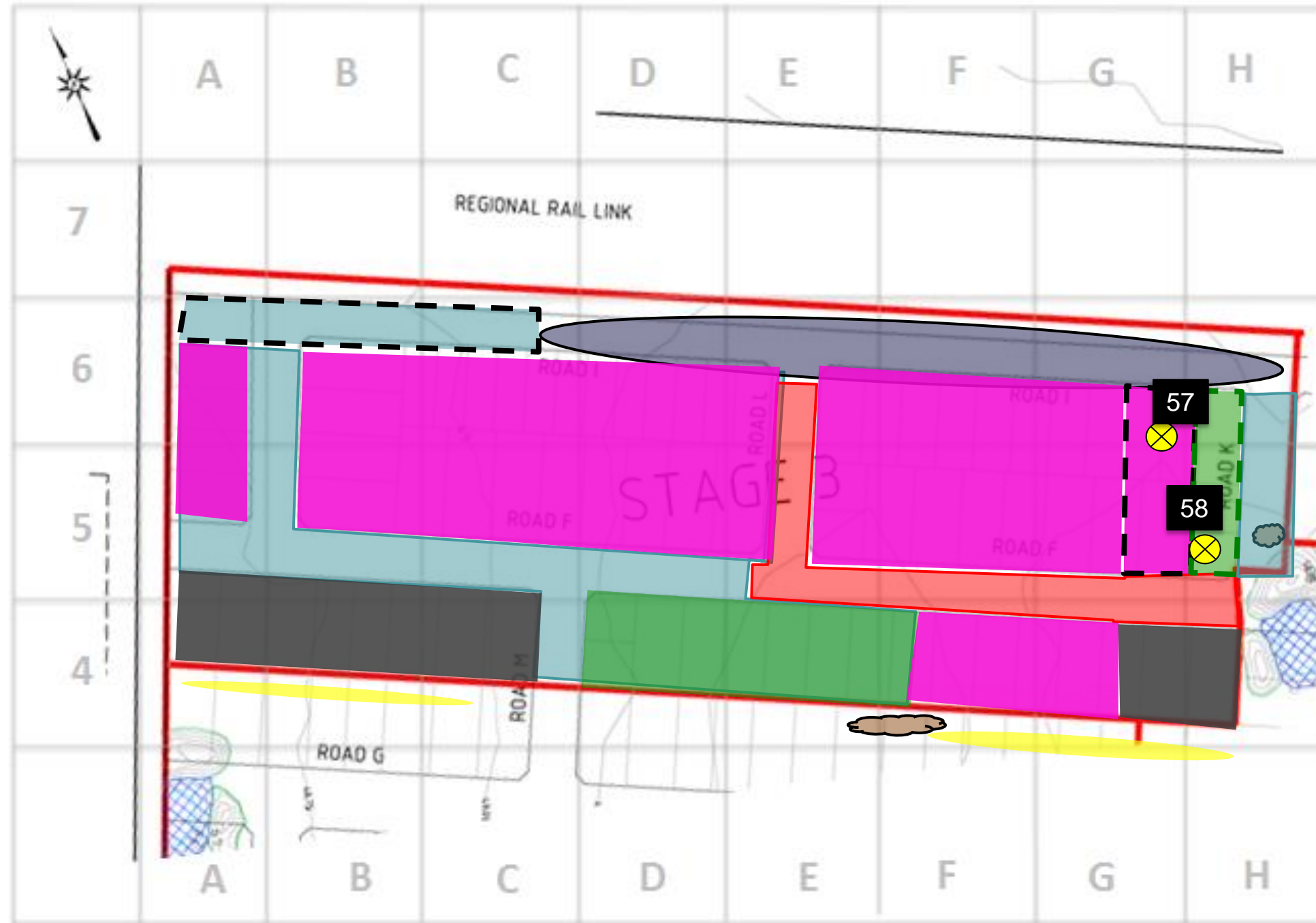
Stage 3: layer 3 being moisture conditioned and compacted in grid G5 and G6



Stage 4: scraper removing topsoil layer as shown in Stage 4 site plan above

revision	description				drawn	approved	date		client:	SPIIRE	
									approved	SS	
									date	25/11/2015	
									scale	NTS	
									original size	A3	
								project:	LITTLE GREEN ESTATE- STAGE 3		
								title:	DAILY RECORD – LEVEL 1 GITA		
								project no:	GEOTABTF09878AA	figure no:	

Date	Day	Time on Site	Personnel	Weather	Mobile plant
26/11/2015	Thursday	7:00 -2:20	Nirav Patel Brenton Petracca	Sunny with a few showers, 18°C	1 x Water Cart 1 x Bulldozer (CAT D6T) 1 x Compactor 815F 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP/BP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	26/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 1

- On-site silty clay material was placed to place layer 4 as part of grid I1 and I2. It was moisture conditioned but had not been rolled with a pad foot roller prior to Coffey leaving site.

Stage 3

- Layer 1 was placed in grid A6, A7, B6, B7, C6, C7 as part of the road way. The fill material consisted of silty and sandy clay that was moisture conditioned and compacted. Layer 3 in grid G5 and G6 was compacted with a pad foot roller prior to testing. Layer 2 in H5 and H6 was compacted with a pad foot roller prior to testing.

Stage 4

- A CAT tractor scraper and Grader were used on Stage 4 to strip the topsoil and expose natural ground as indicated on the Stage 4 site plan problematic areas were further scraped for today's works.

Fill/Material

- 260m³ of silty clay from South Melbourne and 1580m³ of silty clay from Ravenhall Prison was imported for use on Stage 3.
- Stockpiled silty clay material excavated from the trenches was used to expand on Stage 1 works.

Test

- 2 tests (57 and 58) were undertaken on layer 3 and layer 2 respectively as shown on the Stage 3 site plan.

Comments/On-site Communication

BMD were advised that further preparation of the subgrade was required due to problematic areas that still consisted of topsoil and damp locations. These regions were explained verbally. Proof rolling is still required on stage 4.

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
57	X	G6	3	2.16	1.84	18.0	105.5	2.5 dry	Pass
58	X	H5	2	2.08	1.68	24.0	102	2.5 dry	Pass

revision	description			drawn	approved	date	drawn	NP/BP		client:	SPIIRE		
							approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
							date	26/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
							scale	NTS		project no:	GEOTABTF09878AA	figure no:	
							original size	A3					



Stage 3: pad foot roller on layer 3 in grid G5 (W) and G6 (W)



Stage 1: dozer placing more fill as part of layer 4 in grid I1 and I2



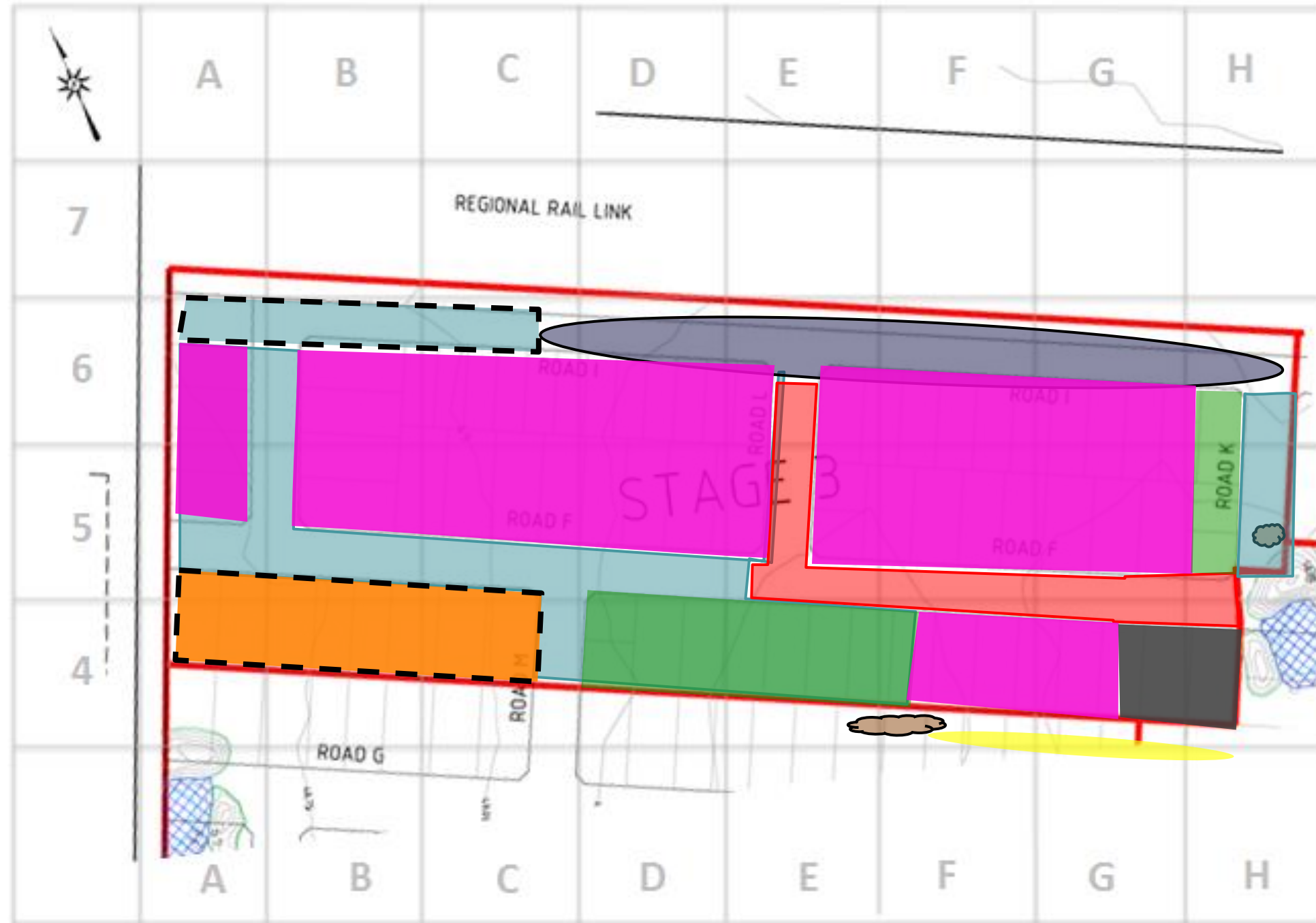
Stage 3: layer 3 in grid G5 (W) and G6 (W) being compacted prior to bring rolled and tested



Stage 4: compactor placing layer 1 upon subgrade in the northern most side of Stage 3 (refer to Stage 3 site plan)

revision	description	drawn	approved	date		drawn	NP/BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	26/11/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
27/11/2015	Friday	7:00 -1:45	Nirav Patel	Sunny, 20°C	1 x Water Cart 1 x Bulldozer (CAT D6T) 1 x Compactor 815F 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	NP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	27/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 1

- Layer 4 in grid I1 and I2 were pad foot rolled prior to testing. There was no placement of fill today.
- Topsoil was spread in grid K3 and L3 (W).

Stage 3

- Layer 1 was placed in grid A6, A7, B6, B7. C6, C7 as part of the road way. The fill material consisted of silty and sandy clay that was moisture conditioned and compacted.

Stage 4

- No works undertaken today.

Fill/Material

- 240m3 of silty clay from Nidree and 1440m3 of silty clay from Ravenhall Prison was imported for use on Stage 3.

Test

- 1 test (181) was undertaken in Stage 1 on layer 4 in grid I2.

Comments/On-site Communication

- BMD advised Coffey that no placement of fill was going to occur today. Proof rolling is still required on stage 4.
- Paul from Fleet Plant Hire advised that he will be working on Saturday (28/11/15) and will only be stockpiling imported fill in grid A6, B6 and C6. A total of 600m3 of silty clay material from Ravenhall Prison was stockpiled in grid B6 and C6 on Saturday (28/11/15)

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
181	X	I2 (S)	4	1.93	1.56	24.0	100	2.0 dry	Pass

revision	description			drawn	approved	date	drawn	NP		client:	SPIIRE		
							approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
							date	27/11/2015		title:	DAILY RECORD - LEVEL 1 GITA		
							scale	NTS		project no:	GEOTABTF09878AA	figure no:	
							original size	A3					



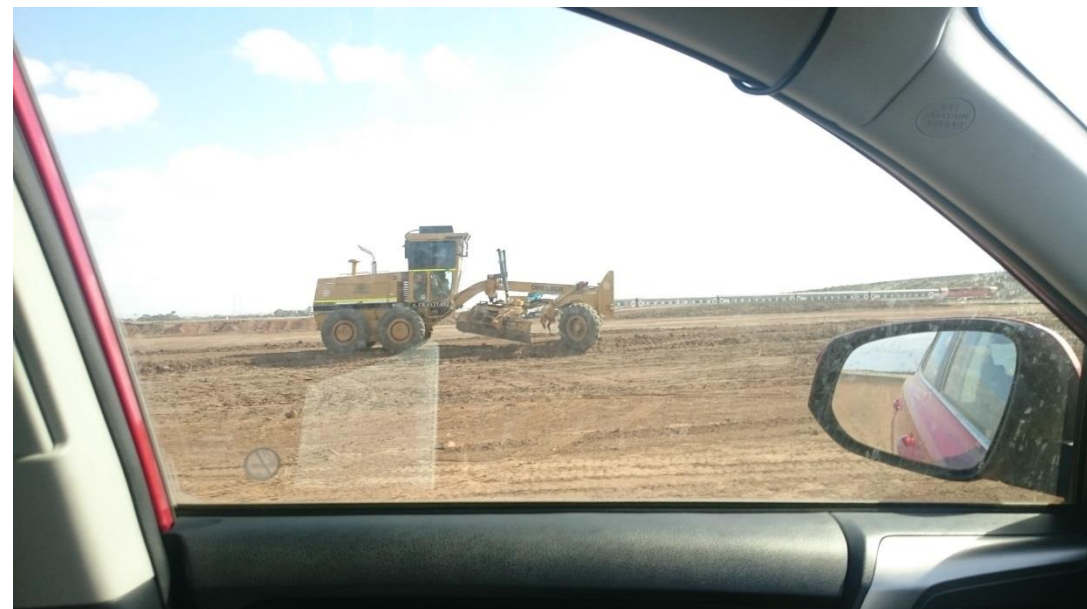
Stage 1: pad foot roller on layer 4 in grid I1 and I2



Stage 3: placing more fill as part of roadway in grid A6, B6 and C6



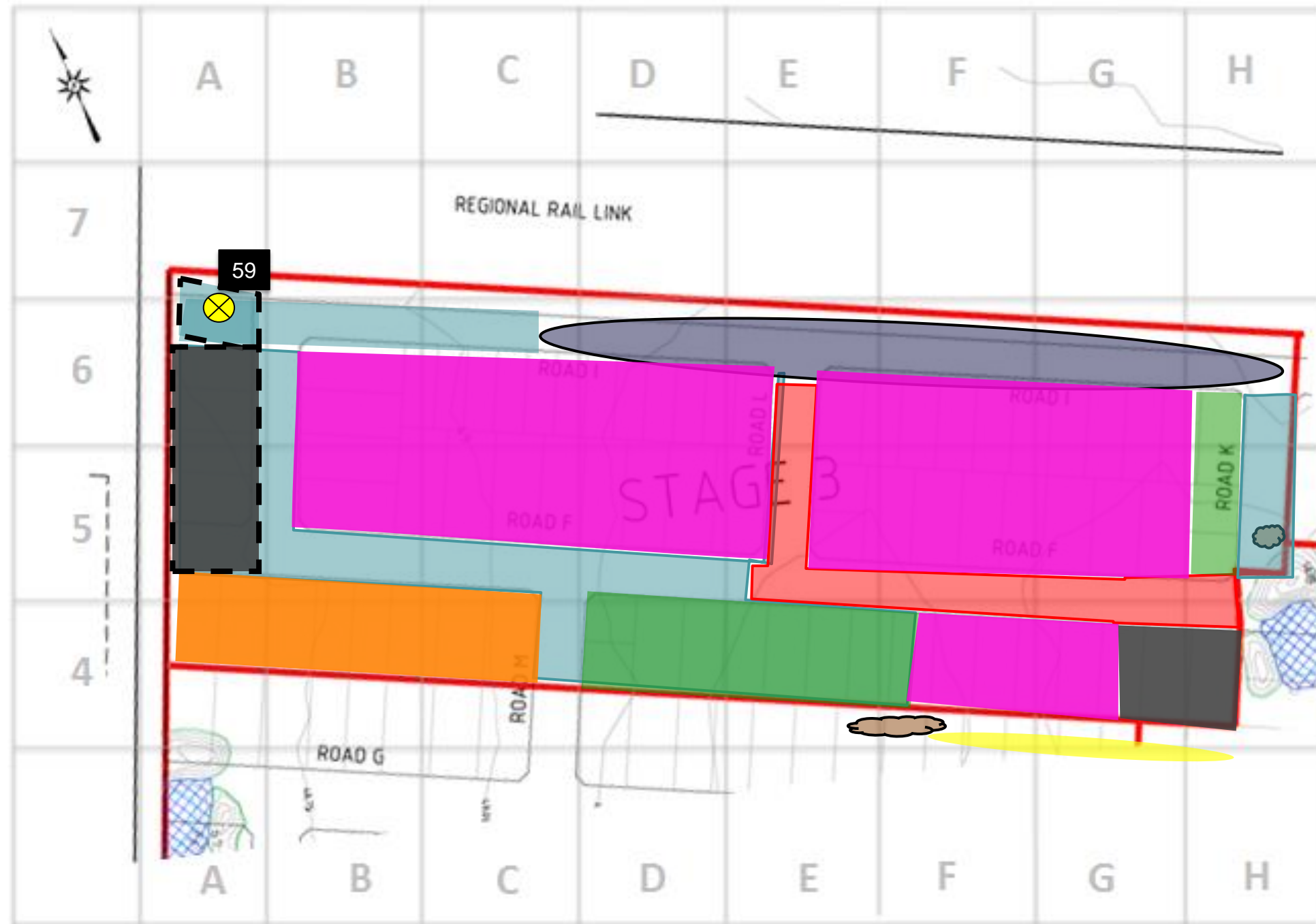
Stage 3: topsoil layer being placed in grid A4, B4 and C4



Stage 1: topsoil being graded in grid K3 and L3

revision	description	drawn	approved	date		drawn	NP		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	27/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
30/11/2015	Monday	7:30 – 3:30	Brenton Petracca Nirav Patel (Half day)	Mostly Sunny, 30°C	1 x Water Cart 1 x Compactor 815F 1 x Padfoot Roller



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location


revision	description				drawn	approved	date	drawn	BP	client:	SPIRE
								approved	SS	project:	LITTLE GREEN ESTATE- STAGE 3
								date	30/11/2015	title:	DAILY RECORD – LEVEL 1 GITA
								scale	NTS	project no:	GEOTABTF09878AA
								original size	A3	figure no:	



Subgrade Inspection	Stage 4 subgrade was proof rolled using a fully loaded water truck with major roots removed. Results of proof roll suggest the areas tested, are approved for fill placement. The northern region of Stage 4 was unable to be proof rolled due to stockpiled topsoil material in row 6 of stage 4 (refer to stage 4 site plan). This will be conducted after material is removed.
Placing/Compaction	<p>Stage 1</p> <ul style="list-style-type: none"> Topsoil was spread in grid K3, M3, N3 and L3 (W). It was then graded. Topsoil was also graded in L1, L2, M1 and M2. <p>Stage 3</p> <ul style="list-style-type: none"> Layer 1 was placed in grid A6 (N) and A7 (S) and was moisture conditioned, compacted and rolled prior to testing. Fill material was placed in B6, B7. C6, C7 as part of the road way. The fill material consisted of silty and sandy clay that was moisture conditioned, compacted and rolled. Layer 4 was placed in grid A5 and A6. The fill material consisted of silty clay from Ravenhall Prison. <p>Stage 4</p> <ul style="list-style-type: none"> Subgrade had been scraped and graded. Areas of concern were further scraped and graded to acceptable levels.
Fill/Material	<ul style="list-style-type: none"> 1500m3 of silty clay from Galvin Park and 560m3 of silty clay from Ravenhall Prison was imported for use on Stage 3 and Stage 4.
Test	<ul style="list-style-type: none"> 1 test (59) was undertaken in Stage 3 on layer 1 in grid A6.
Comments/On-site Communication	<ul style="list-style-type: none"> Paul from Fleet Plant Hire was advised that proof rolls conducted in stage 4 had passed the test and placement of material was acceptable. Greg from BMD was advised that proof rolling still needs to be conducted in stage 4 in the north where stockpiles currently are.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
59	X	A6	1	2.01	1.65	21.5	101.0	0.0	Pass

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	30/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Stage 4: Grader clearing topsoil on subgrade in grid P1 and P2



Stage 3: placement of layer 4 in grid A5 and A6



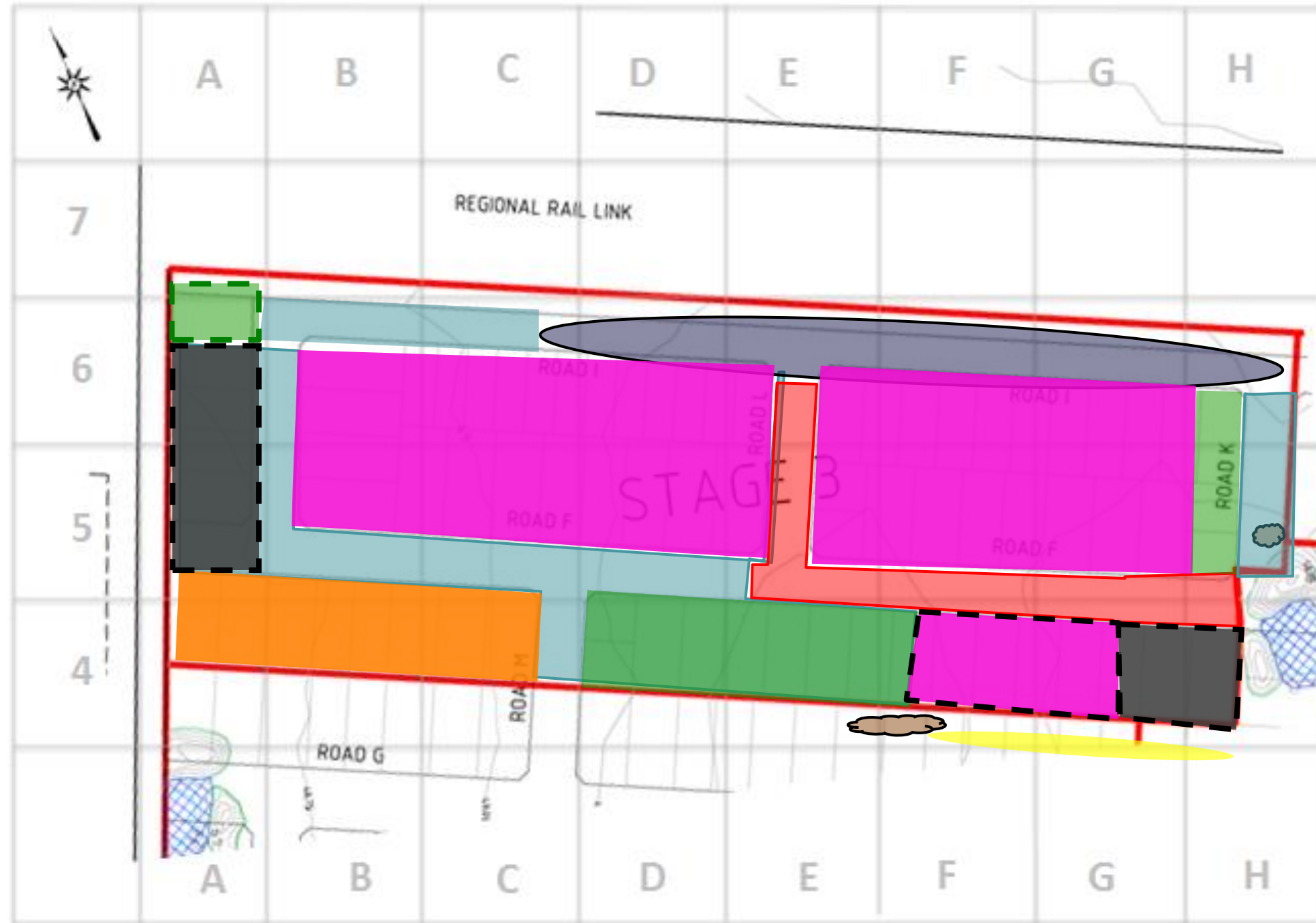
Stage 1: topsoil layer being graded in grid K3



Stage 3: Layer 1 being compacted and rolled in grid A6 (N) and A7 (S)

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	30/11/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
1/12/2015	Tuesday	7:00 – 3:00	Brenton Petracca	Partly Cloudy, 23°C	1 x Water Cart 1 x Compactor 815F 1 x Padfoot Roller 1 x large dozer



Legend

	Subgrade
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	BP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	01/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection

Placing/Compaction

Stage 1

- Topsoil was graded and moisture conditioned in L1 (E), L2 (E), M1 and M2.
- Road D in grid N1 and O1 was filled with dozer, rolled and graded

Stage 3

- Layer 4 was placed in grid A5 (N) and A6 (S). The fill material consisted of silty clay from Ravenhall Prison. Layer was moisture conditioned, compacted and rolled prior to testing.
- Layer 2 was placed in grid A6 (N). The fill material consisted of silty clay from Ravenhall Prison. Layer was moisture conditioned, compacted and rolled prior to testing.
- Some fill material was placed in grid H4, G4 and F4 (E) and compacted to fill the un-even areas.

Stage 4

- More stockpiles placed along southern edges of stage 4.

Fill/Material

- 1460m3 of loose silty clay from Ravenhall Prison was imported for use on Stage 3 and Stage 4.

Test


- 2 tests were undertaken in stage 3. Test 60 was conducted on layer 2 in grid A6 (N). Test 61 was undertaken on layer 4 in grid A5 (N).

Comments/On-site Communication

- Paul from Fleet Plant Hire was advised in the morning that test #59 conducted in stage 3 on 30/11/15 had passed and placement of further fill material was approved.

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
60	X	A6 (N)	2	2.10	1.73	21.0	104.0	2.5 dry	Pass
61	X	A5 (N)	4	1.97	1.68	17.5	98.5	2.5 dry	Pass

revision	description			drawn	approved	date	drawn	BP		client:	SPIIRE		
							approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
							date	01/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
							scale	NTS		project no:	GEOTABTF09878AA	figure no:	
							original size	A3					



Stage 3: Compactor working newly placed layer 4 in grid A5 (N) and A6 (S)




Stage 1: Grading of topsoil in grid L1 (E), L2 (E), M1 and M2



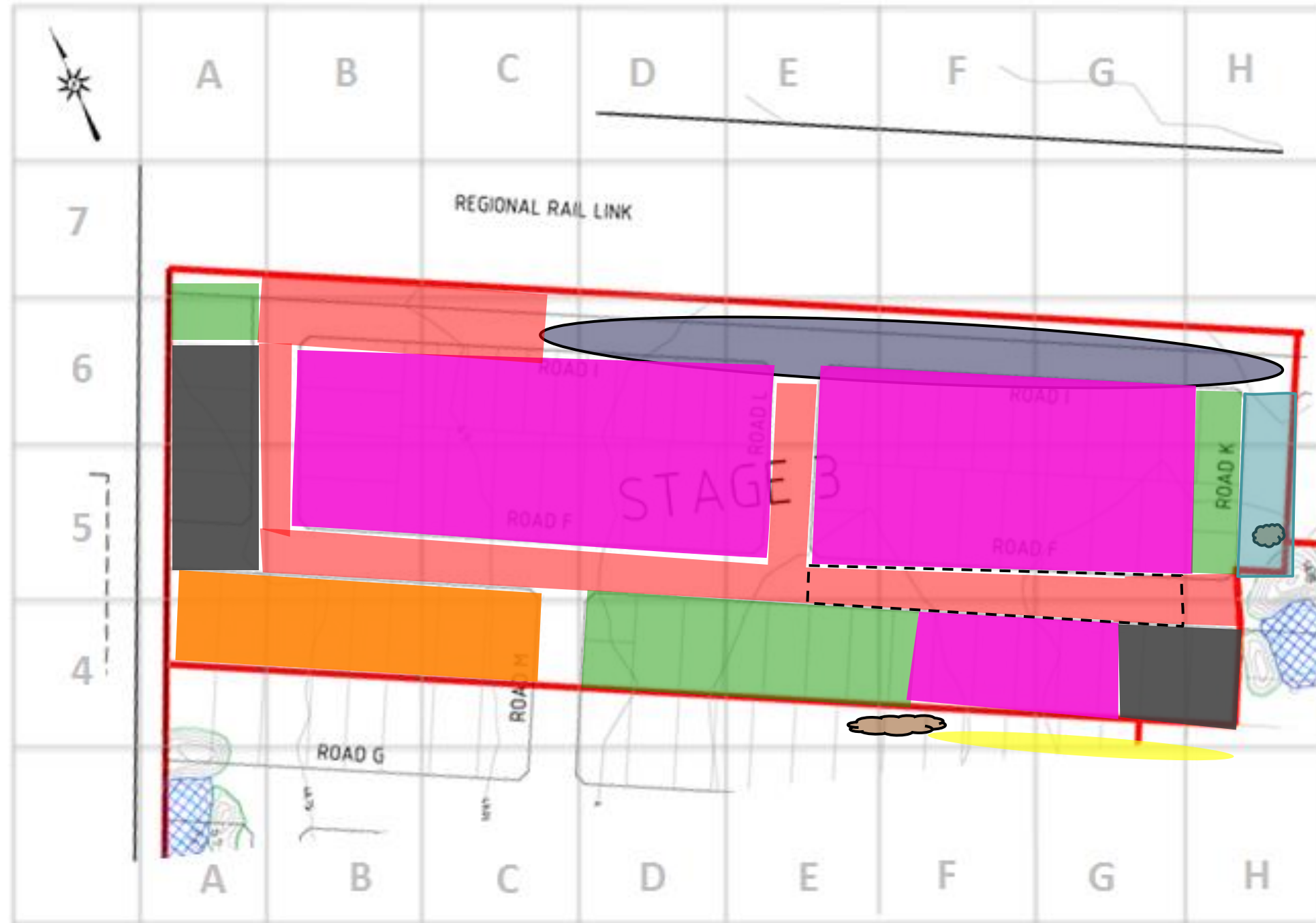
Stage 3: placement and rolling of fill material in grid H4 (W), G4 and F4



Stage 3: Layer 4 in grid A5 (N) and A6 (S) and layer 2 in grid A6 (S) being compacted and rolled

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	01/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
2/12/2015	Wednesday	7:00 – 3:45	Brenton Petracca	Partly Cloudy, 18°C	1 x Water Cart 1 x Compactor 815F 1 x Padfoot Roller 1 x large dozer



Legend

	Roads (fill cut)
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location


revision	description				drawn	approved	date	drawn	BP	client:	SPIRE
								approved	SS	project:	LITTLE GREEN ESTATE- STAGE 3
								date	02/12/2015	title:	DAILY RECORD – LEVEL 1 GITA
								scale	NTS	project no:	GEOTABTF09878AA
								original size	A3	figure no:	



Subgrade Inspection	
Placing/Compaction	<p>Stage 1</p> <ul style="list-style-type: none"> Road D in grid N1 and O1 was filled with dozer, rolled and graded. South side of road was also built up with fill material and rolled. Excavation of road C in grid M3 (SE) and N3 (SW). Road E in grid M1 (E), M2 (E), N1 (W) and N2 (W) cleaned with grader. <p>Stage 3</p> <ul style="list-style-type: none"> Some filling and rolling was conducted along the edges of road F in grid F4 (N), F5 (S), G4 (N) and G5 (S). <p>Stage 4</p> <ul style="list-style-type: none"> Layer 1 was placed upon subgrade in grid H5 (NE), H6 (SE) I5 (N), I6 (S), J5 and J6 (S) . Material consisted of silty clay from Ravenhall prison. Layer was continuously compacted and moisture conditioned during placement. Layer was then rolled prior to testing.
Fill/Material	<ul style="list-style-type: none"> 1810m3 total imported material, 1410m3 (from Ravenhall Prison) for use on stage 4 and 400 m3 (from Coburg) for use on stage 3. The materials imported were silty clay in composition.
Test	<ul style="list-style-type: none"> Two tests were undertaken in stage 4 on layer 1. Test 01 was conducted in grid I5 (N) and test 02 was performed in grid I6 (SE)
Comments/On-site Communication	<ul style="list-style-type: none"> Paul from Fleet Plant Hire was advised in the morning that tests 60 and 61 conducted in stage 3 on 01/12/15 had passed and placement of further fill material was approved. Paul from Fleet Plant Hire was also advised to remove any large (>200mm) uncrushable boulders from fill material used in stage 4.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
1	X	I5 (Middle)	1	1.99	1.63	22	101.5	2.0 dry	Pass
2	X	I6 (SE)	1	1.98	1.65	20	102.5	2.5 dry	Pass

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	02/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 1: Small dozer placing fill on road D grid N1 and O1 which is then rolled by padfoot.



Stage 4: Placement of layer 1 silty clay fill, compacted and moisture conditioned in grid H5 (NE), H6 (SE), I5 (N), I6 (S), J5 and J6 (S).



Stage 1: further grading of road E in grid M1 (E), M2 (E), N1 (W) and N2 (W)



Stage 4: Layer 1 in grid H5 (NE), H6 (SE), I5 (N), I6 (S), J5 and J6 (S). Being rolled by padfoot roller.

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	02/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
3/12/2015	Thursday	6:50 – 3:00	Brenton Petracca	Sunny, 21°C	1 x Water Truck



Legend

	Roads (fill cut)
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	BP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	03/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	
Placing/Compaction	<p>Stage 1</p> <ul style="list-style-type: none"> Placement of fill material for roads which was then rolled and graded. This occurred in stage 1 and extended into stage 4 in grid P1 <p>Stage 4</p> <ul style="list-style-type: none"> Extension of layer 1 upon subgrade in grid J5, J6 (S), K5 and K6 (S). Material consisted of silty and sandy clay. Layer was continuously compacted and moisture conditioned during placement. Grid J5 and J6 (S) were rolled prior to testing.
Fill/Material	<ul style="list-style-type: none"> 1310m³ total imported material (1000m³ from South Yarra and 310m³ from St Albans). The materials imported were sandy and silty clay in composition.
Test	<ul style="list-style-type: none"> One test was undertaken in stage 4 on layer 1. Test 03 was conducted in grid J5.
Comments/On-site Communication	<ul style="list-style-type: none"> Paul from Fleet Plant Hire was advised in the morning that tests 01 and 02 conducted on layer 1 in stage 4 on 02/12/15 had passed and placement of additional fill material was approved.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
3	X	J5 (mid)	1	2.05	1.73	18.5	103.5	0.0	Pass

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE	
					date	03/12/2015		title:	DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Stage 4: Placement and compaction of layer 1 material by CAT compactor in grid J5, J6 (S), K5 and K6 (S)



Stage 4: moisture conditioning of layer 1 material in grid J5, J6 (S), K5 and K6 (S)



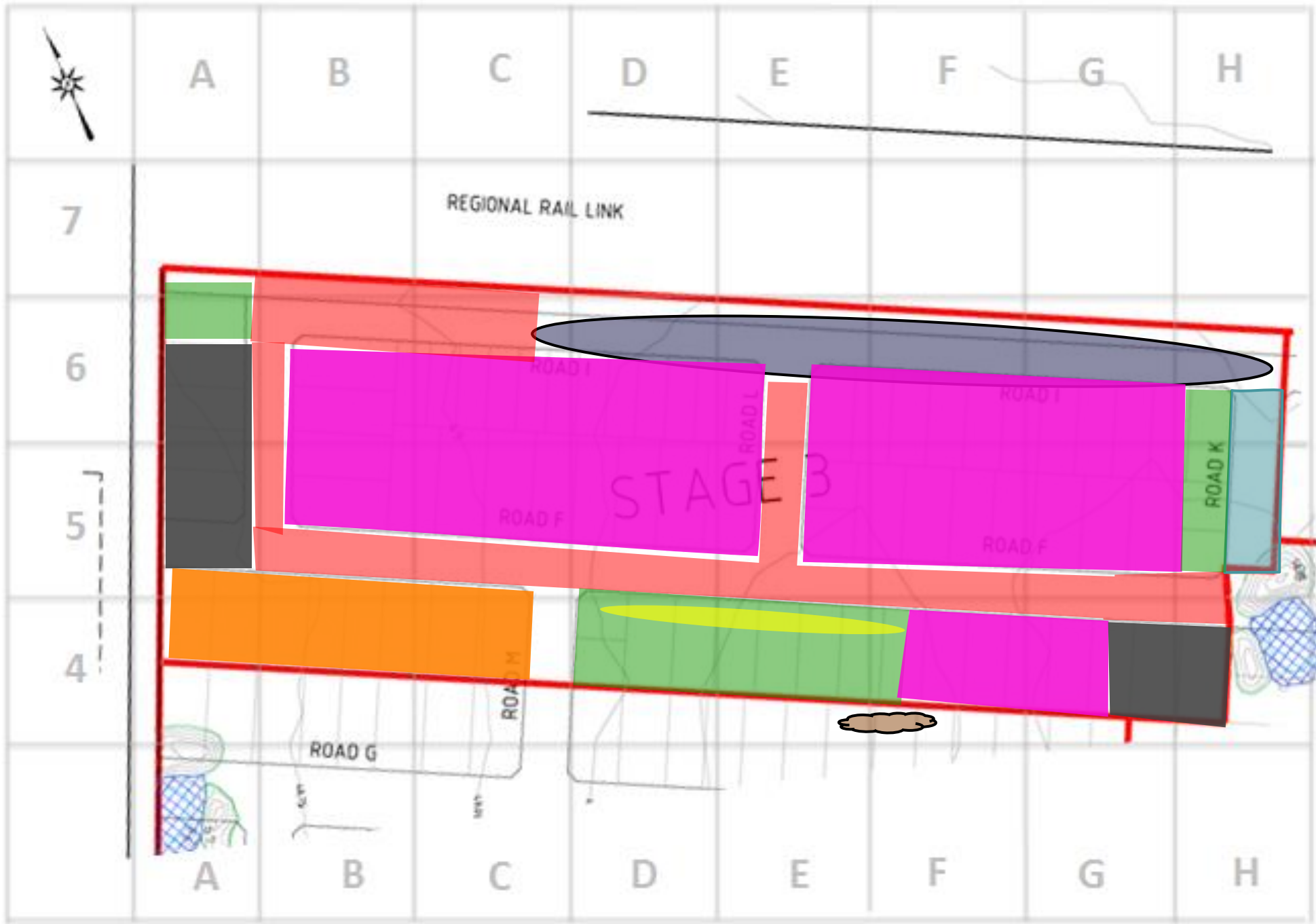
Stage 4: Rolling of layer 1 material by padfoot roller in grid J5 and J6 (S)



Stage 1 & 4: Placement and rolling of road fill material in grid O1, P1 and P2

revision	description				drawn	approved	date	drawn	BP		client:	SPIRE	
								approved	SS		project:	LITTLE GREEN ESTATE	
								date	03/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
4/12/2015	Friday	6:50 – 3:00	Brenton Petracca	Sunny, 30°C	1 x Water Truck



Legend


	Roads (fill cut)
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	04/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	
Placing/Compaction	<p>Stage 1</p> <ul style="list-style-type: none"> Continuous rolling and grading of road E and D in addition to drainage works. <p>Stage 4</p> <ul style="list-style-type: none"> Additional material added to layer 1 and extension of layer 1 upon in grid K5, K6 (S), L4 (W), L5 (W) and L6 (SW). Material consisted of sandy and silty clay. Layer was continuously compacted and moisture conditioned during placement. Grid K5, K6 (S), L5 and L6 (S) were rolled prior to testing. Grid L4 was placed however was not rolled on this day.
Fill/Material	<ul style="list-style-type: none"> 1760m³ total imported material (820m³ from South Yarra and 940m³ from Ravenhall Prison). The materials imported were silty and sandy clay in composition.
Test	<ul style="list-style-type: none"> Two tests were undertaken in stage 4 on layer 1. Test 04 was conducted in grid K5 (N) and test 05 was conducted in grid L5 (NW).
Comments/On-site Communication	<ul style="list-style-type: none"> Paul from Fleet Plant Hire was advised in the morning that test 03 conducted on layer 1 in stage 4 on 03/12/15 had passed and placement of additional fill material was approved.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
4	X	K5 (N)	1	2.12	1.86	14	100.5	0.5 dry	Pass
5	X	L5 (NW)	1	1.91	1.67	14	97.5	2.0 dry	Pass

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE		
					date	04/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 4: Placement and compaction of layer 1 material by CAT compactor in grid J5, J6 (S), K5 and K6 (S)




Stage 4: moisture conditioning of layer 1 material in grid J5, J6 (S), K5, K6 (S), L4, L5 and L6 (SE)



Stage 1 & 4: Rolling of material placed in roadways in grid O1 & P1



Stage 4: Placement of material by large dozer in grid K5 and K6 (S)

revision	description	drawn	approved	date		drawn	BP		client:	SPIRE	
						approved	SS		project:	LITTLE GREEN ESTATE	
						date	04/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
7/12/2015	Monday	6:45 – 8:00	Brenton Petracca	Cloudy, 24°C	



Legend

	Roads (fill cut)
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Un-worked/grassed area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location


revision	description	drawn	approved	date	drawn	BP	client:	SPIIRE
					approved	SS	project:	LITTLE GREEN ESTATE- STAGE 3
					date	07/12/2015	title:	DAILY RECORD – LEVEL 1 GITA
					scale	NTS	project no:	GEOTABTF09878AA
					original size	A3	figure no:	



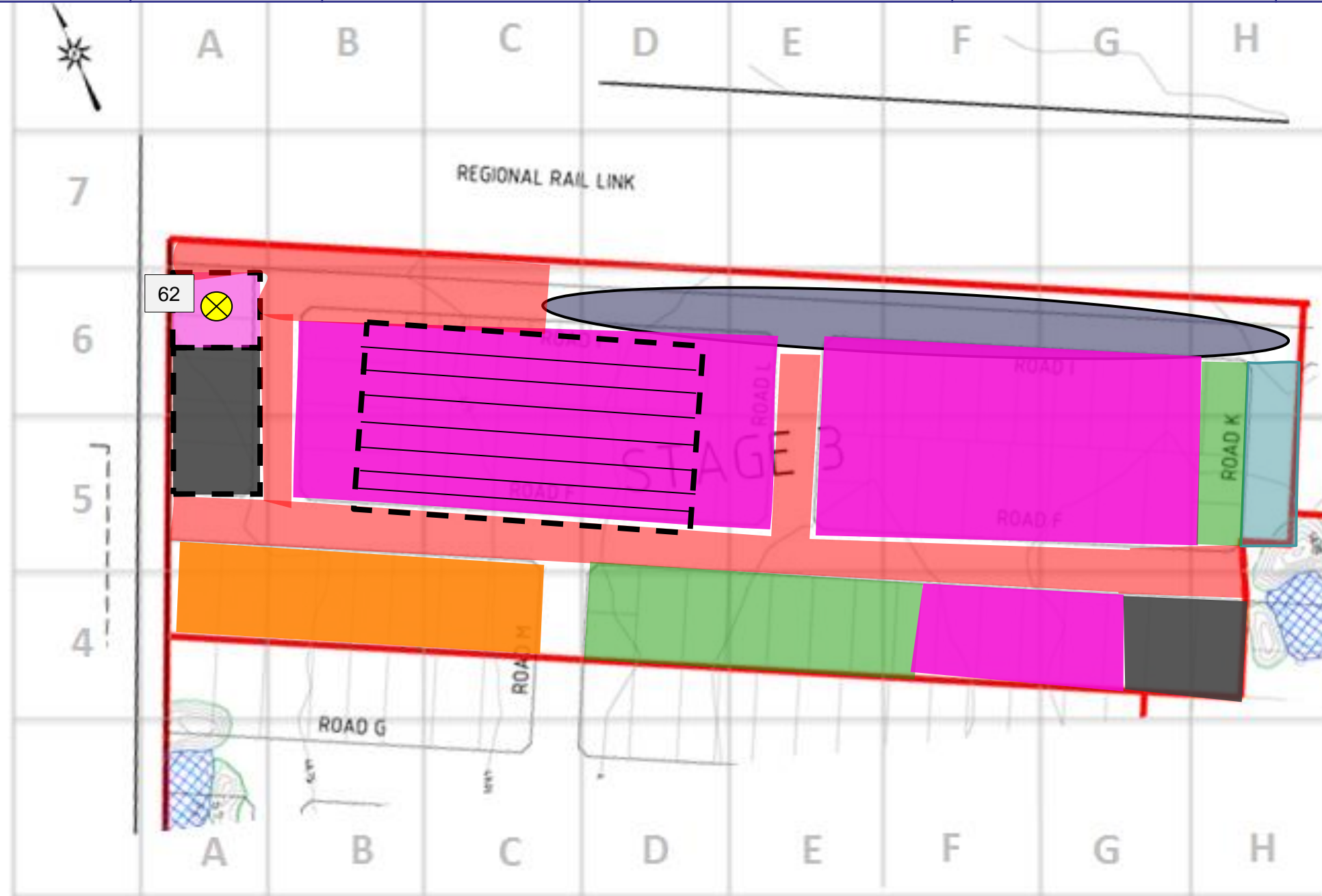
Subgrade Inspection	
Placing/Compaction	No placing or compaction was conducted today due to Union activity.
Fill/Material	<ul style="list-style-type: none"> No fill material was placed today
Test	<ul style="list-style-type: none"> No tests conducted
Comments/On-site Communication	<ul style="list-style-type: none"> Paul from Fleet Plant Hire was advised in the morning that test 04 and 05 conducted on layer 1 in stage 4 on 04/12/15 had passed and placement of additional fill material was approved. Paul from Fleet Plant Hire advised Coffey that due to a union day, no placement of layers or tests would be conducted today.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE	
					date	07/12/2015		title:	DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
08/12/2015	Tuesday	6:50 – 3:00	Brenton Petracca	Partly cloudy, few showers, top of 33°C	1 x Water Truck 1 x CAT 815F compactor 1 x CAT D5K small dozer 1 x CAT large dozer 1 x Padfoot roller



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Scarified area
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	BP	client:	SPIRE
					approved	SS	project:	LITTLE GREEN ESTATE- STAGE 3
					date	08/12/2015	title:	DAILY RECORD – LEVEL 1 GITA
					scale	NTS	project no:	GEOTABTF09878AA figure no:
					original size	A3		



Subgrade Inspection

Placing/Compaction

Stage 3

- Layer 2 in grid A6 compacted and moisture conditioned prior to placement of layer 3 material.
- Layer 3 material, which consisted of silty and sandy clay, was placed in grid A6 (N). The same material was also placed atop of layer 4 in grid A5 (N) and A6 (S) to reach RL's. Layer 3 material was moisture conditioned, compacted and rolled prior to testing.
- Layer 3 material in grid B5 (NE), B6 (SE), C5 (N), C6 (S), D5 and D6 (S) was scarified using a small dozer. Scarified material was then moisture conditioned by water cart.
- Roads throughout stage 3 were graded.

Stage 4

- Roadways in grid P1 and P2 graded.

Fill/Material

- 1100m3 of total material was imported for use in stage 3 and 4. 880m3 of sandy clay was imported from South Yarra and 220m3 of silty clay was imported from St Albans.

Test


Stage 3

- Test 62 was undertaken on layer 3 in grid A6 (N)

Comments/On-site Communication

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
62	X	A6 (N)	3	2.14	1.96	9.0	98	2.0 dry	Pass

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE		
					date	08/12/2015		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: scarifying of layer 3 material in grid B5 (NE), B6 (SE), C5 (N), C6 (S), D5 and D6 (S)



Stage 3: moisture conditioning of layer 2 material prior to placement of layer 3 in grid A5 (N) and A6 (S)



Stage 3: moisture conditioning of scarified layer 3 material in grid B5 (NE), B6 (SE), C5 (N), C6 (S), D5, and D6 (S)



Stage 3: placement and compaction of layer 3 material in grid A5 (N) and A6 (S)

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE		
						date	08/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
09/12/2015	Wednesday	6:50 – 3:50	Brenton Petracca	Partly cloudy, 25°C	1 x Water Truck 1 x CAT large dozer 1 x Padfoot roller



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location


revision	description				drawn	approved	date	drawn	BP	client:	SPIRE
								approved	SS	project:	LITTLE GREEN ESTATE- STAGE 3
								date	09/12/2015	title:	DAILY RECORD – LEVEL 1 GITA
								scale	NTS	project no:	GEOTABTF09878AA
								original size	A3	figure no:	



Subgrade Inspection	
Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> Scarified layer 3 material in grid B5 (NE), B6 (SE), C5 (N), C6 (S), D5 (W) and D6 (SW) was rolled by a padfoot roller and moisture conditioned prior to testing. <p>Stage 4</p> <ul style="list-style-type: none"> Layer 1 placement of material continued through grid L4 (N), L5, L6 (S) M4 (NW) and M5 (W). Subgrade was moisture conditioned prior to placement. Placed material was compacted, moisture conditioned and rolled.
Fill/Material	<p>Stage 4</p> <ul style="list-style-type: none"> 2370m³ total imported loose material (1185m³ from Werribee plaza, 645m³ from St Albans and 540m³ from Coburg). The materials imported were silty and sandy clay in composition.
Test	<p>Stage 3</p> <ul style="list-style-type: none"> Test 63, 64, 65 were undertaken on layer 3 in grid D5 (W), C6 (S), and C5 (W) respectively.
Comments/On-site Communication	<ul style="list-style-type: none"> Paul from Fleet Plant Hire was advised that test 62 conducted in stage 3 layer 3 on 08/12/15 had passed and placement of additional material was approved.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
63	x	D5 (W)	3	2.07	1.7	21.5	106.5	2.5 dry	Pass
64	x	C6 (S)	3	1.93	1.56	23	100	2.5 dry	Pass
65	x	C5 (W)	3	1.85	1.54	20	96.5	2.5 dry	Pass

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE		
					date	09/12/2015		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Rolling of layer 3 material in grid B5 (NE), B6 (SE), C5 (N), C6 (S), D5 and D6 (S)



Stage 4: moisture conditioning of subgrade surface prior to layer 1 placement in grid L4 (N), L5, M4 (NW) and M5



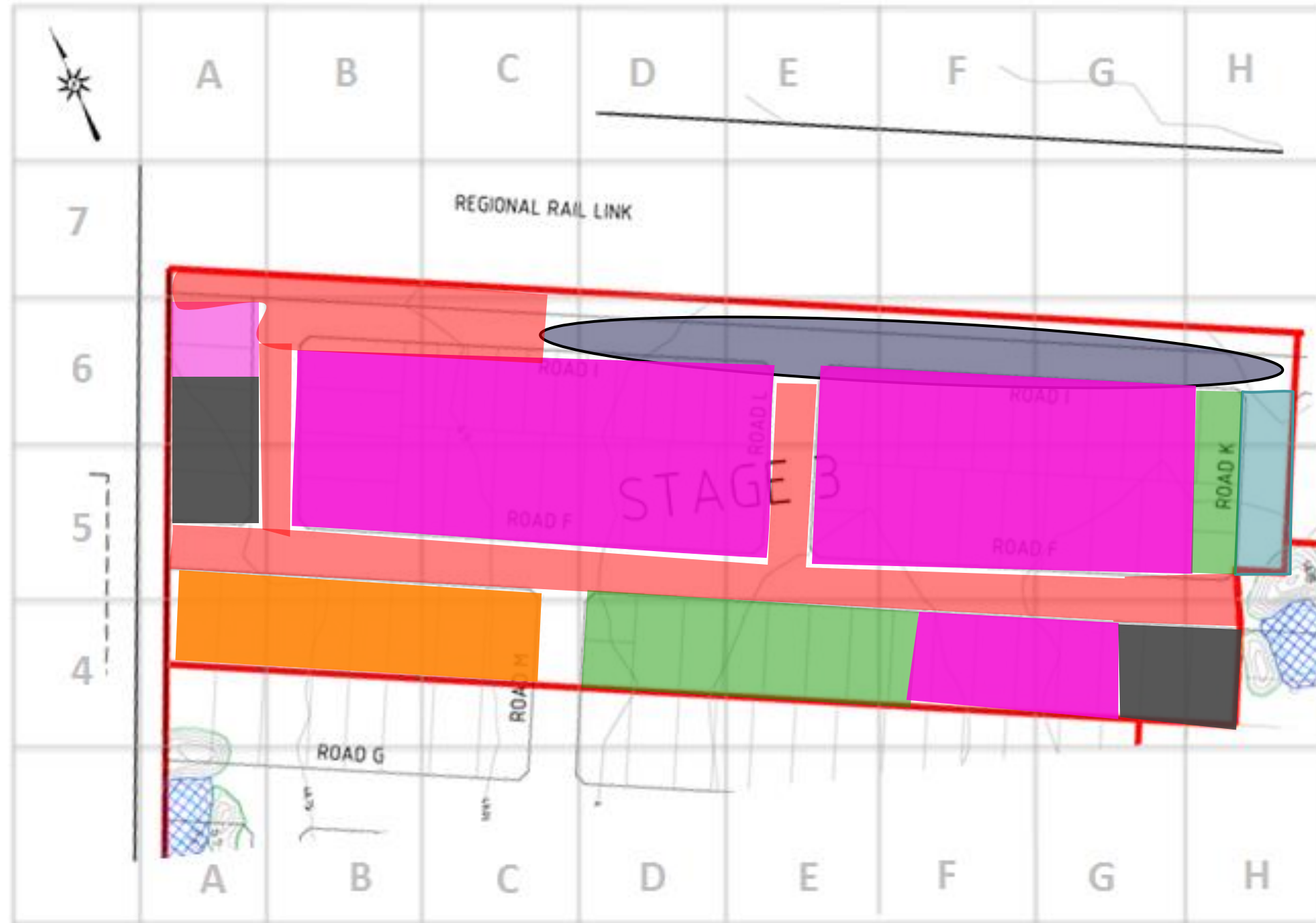
Stage 4: Placement and compaction of layer 1 material in grid L4 (N), L5, M4 (NW) and M5



Stage 4: Rolling of layer 1 material in grid L4 (N), L5, M4 (NW) and M5

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE	
						date	09/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
10/12/2015	Thursday	7.00 – 3.45	Brenton Petracca	Mostly sunny, 23°C	1 x Water Truck



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description				drawn	approved	date	drawn	BP	client:	SPIRE
								approved	SS	project:	LITTLE GREEN ESTATE- STAGE 3
								date	10/12/2015	title:	DAILY RECORD – LEVEL 1 GITA
								scale	NTS	project no:	GEOTABTF09878AA
								original size	A3	figure no:	



Subgrade Inspection	
Placing/Compaction	<p>Stage 4</p> <ul style="list-style-type: none"> Layer 1 placement of material continued through grid L4, M4, M5, N4 (W) and N5 (W). Subgrade was moisture conditioned prior to placement. Placed material was compacted, moisture conditioned and rolled prior to testing.
Fill/Material	<ul style="list-style-type: none"> 1590m3 total imported loose material (800m3 from Werribee plaza, 520m3 from Coburg and 270m3 from St Albans). The materials imported were silty and sandy clay in composition.
Test	<p>Stage 4</p> <ul style="list-style-type: none"> Test 06, 07, 08 and 09 were undertaken on layer 1 in grid L4, M4, M5 (N) and L5 respectively.
Comments/On-site Communication	<ul style="list-style-type: none"> Paul from Fleet Plant Hire was advised that test 63, 64 and 65 conducted in stage 3 layer 3 on 09/12/15 had passed and placement of additional material was approved.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
06	X	L4	1	1.90	1.58	20	95.5	2.0 dry	Pass
07	X	M4	1	2.01	1.69	18.5	97	0.0	Pass
08	X	M5 (N)	1	2.11	1.78	18.5	107	2.0 dry	Pass
09	X	L5	1	2.06	1.79	14.5	99	2.5 dry	Pass

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE		
					date	10/12/2015		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 4: Moisture conditioning of subgrade pre placement of layer 1 material in grid N4 and N5



Stage 4: moisture conditioning of layer 1 material in grid L4, M4 and M5



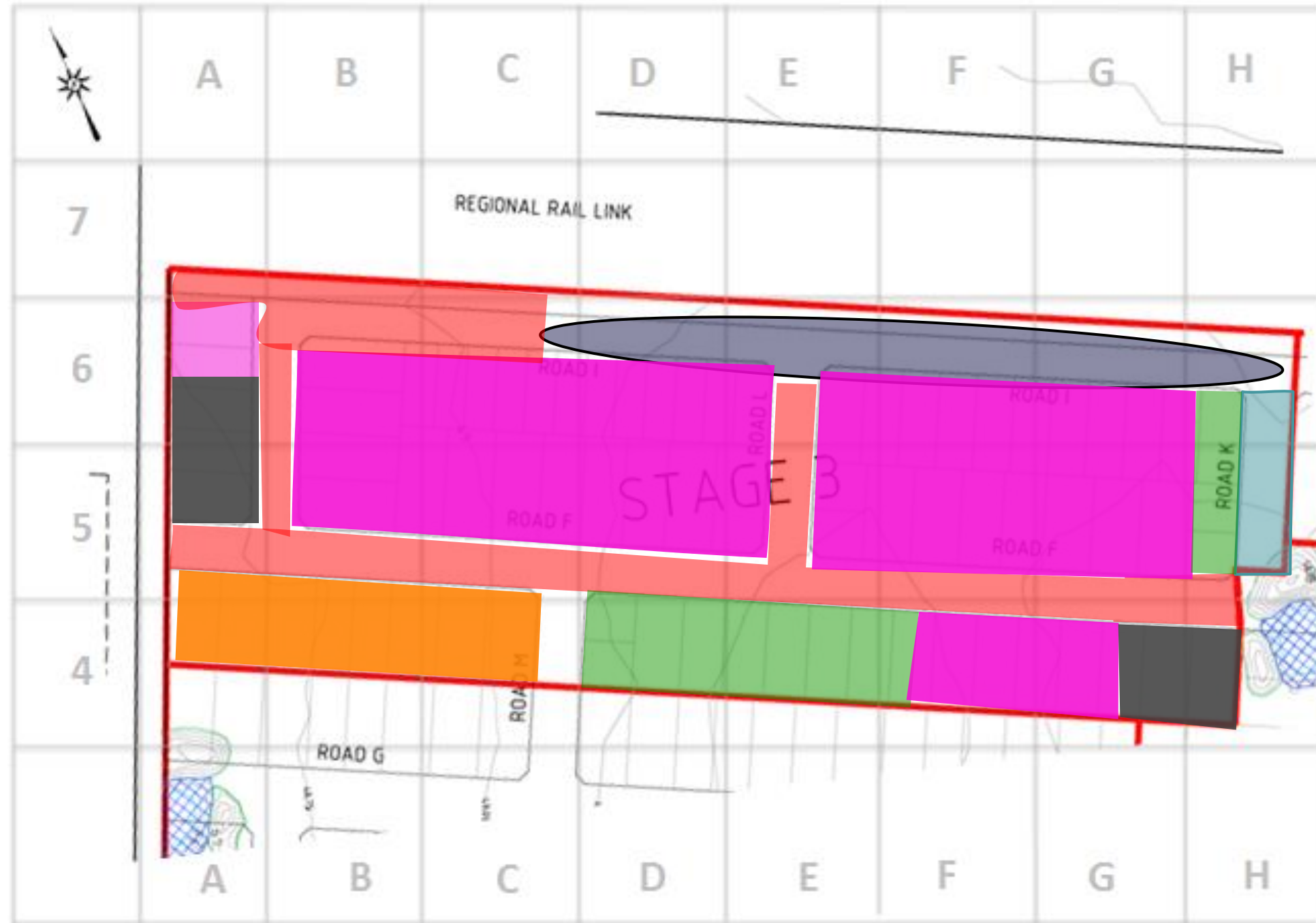
Stage 4: Placement and compaction of layer 1 material in grid L4, M4 and M5



Stage 4: Rolling of layer 1 material in grid L4, L5, M4 and M5

revision	description	drawn	approved	date		drawn	BP		client:	SPIRE	
						approved	SS		project:	LITTLE GREEN ESTATE	
						date	10/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
11/12/2015	Friday	6.50 – 12.05	Brenton Petracca Sotir S in morning	Mostly cloudy, few showers top of 20°C	1 x Water Truck 1 x Large CAT dozer



Legend


	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	BP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	11/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

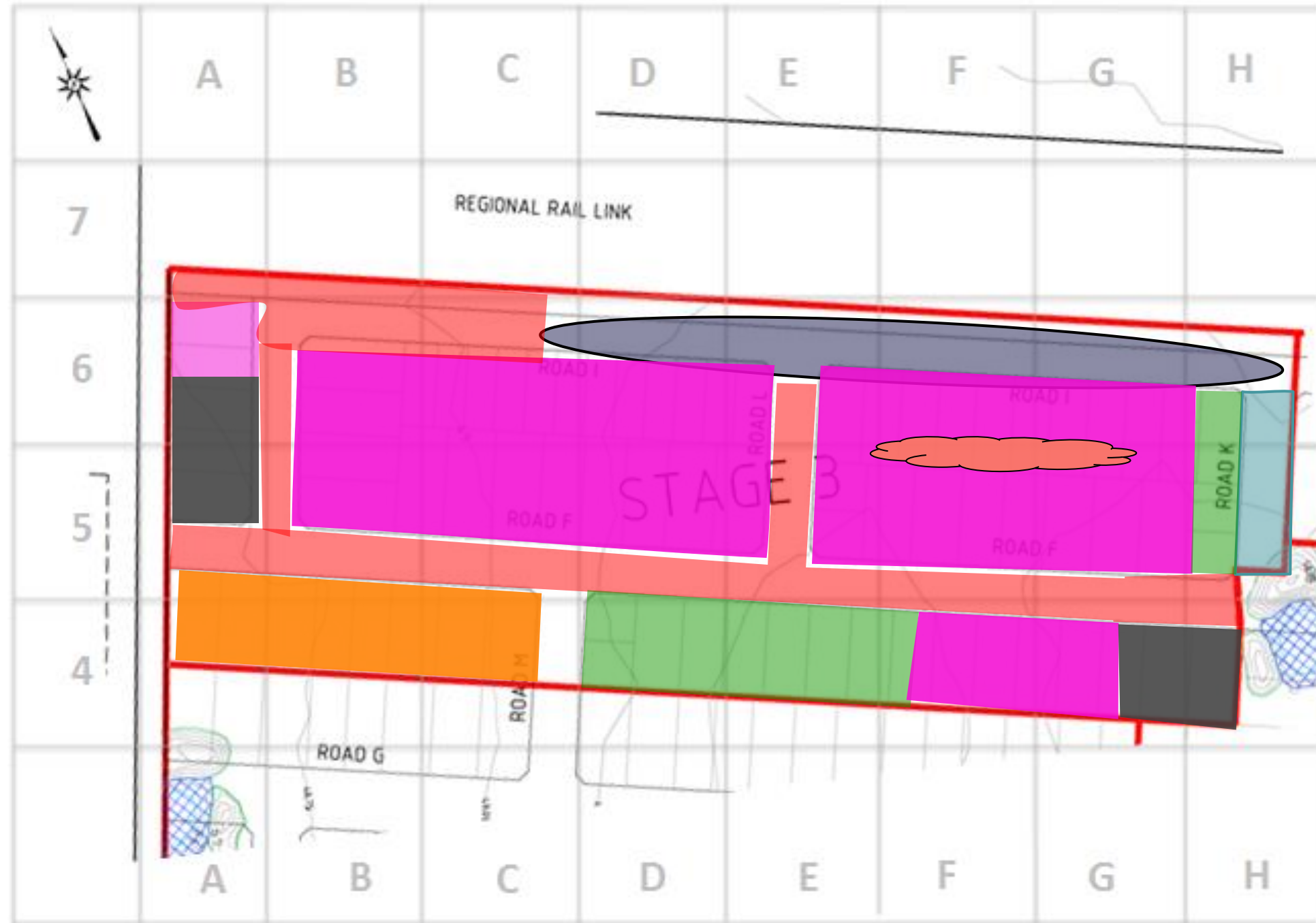
Subgrade Inspection	
Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> Additional material was tipped to be placed atop of layer 3 in grid F5, F6 (S), G5 and G6 (S) to reach RL's. This material will only exceed 50mm in localized areas which will need to be tested after placement. <p>Stage 4</p> <ul style="list-style-type: none"> Material was free tipped to be placed as layer 1.
Fill/Material	<ul style="list-style-type: none"> 530m3 total imported loose material sourced from Coburg was tipped (320m3 to be used in stage 3 and 210m3 for use in stage 4). The materials imported were comprised of silty clay.
Test	No tests were undertaken onsite today
Comments/On-site Communication	<ul style="list-style-type: none"> Paul from Fleet Plant Hire was advised that test 06, 07, 08 and 09 conducted in stage 4 layer 1 on 10/12/15 had passed and placement of additional material was approved.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE	
					date	11/12/2015		title:	DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
14/12/2015	Monday	7.00 – 12.00	Brenton Petracca	Mostly sunny and 27°C	1 x Water Truck



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location


revision	description				drawn	approved	date	drawn	BP	client:	SPIRE
								approved	SS	project:	LITTLE GREEN ESTATE- STAGE 3
								date	14/12/2015	title:	DAILY RECORD – LEVEL 1 GITA
								scale	NTS	project no:	GEOTABTF09878AA
								original size	A3	figure no:	



Subgrade Inspection	
Placing/Compaction	<p>Stage 4</p> <ul style="list-style-type: none"> Layer 1 placement of material continued through grid N4 and N5 in the morning. Subgrade was moisture conditioned prior to placement. Placed material was compacted and moisture conditioned during placement.
Fill/Material	<ul style="list-style-type: none"> 630m³ total loose material was imported for use in stage 4 (340m³ from Coburg and 290m³ from St Albans). The materials imported were silty clay in composition.
Test	No tests were conducted in any stages on this day.
Comments/On-site Communication	<ul style="list-style-type: none"> Paul from Fleet Plant Hire advised Coffey that after 12:00pm no further placement of fill would be occurring, however, free tipping of material would be continued for the remainder of the afternoon.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE	
					date	14/12/2015		title:	DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Stage 4: Moisture conditioning of subgrade pre placement of layer 1 material in grid N4 and N5



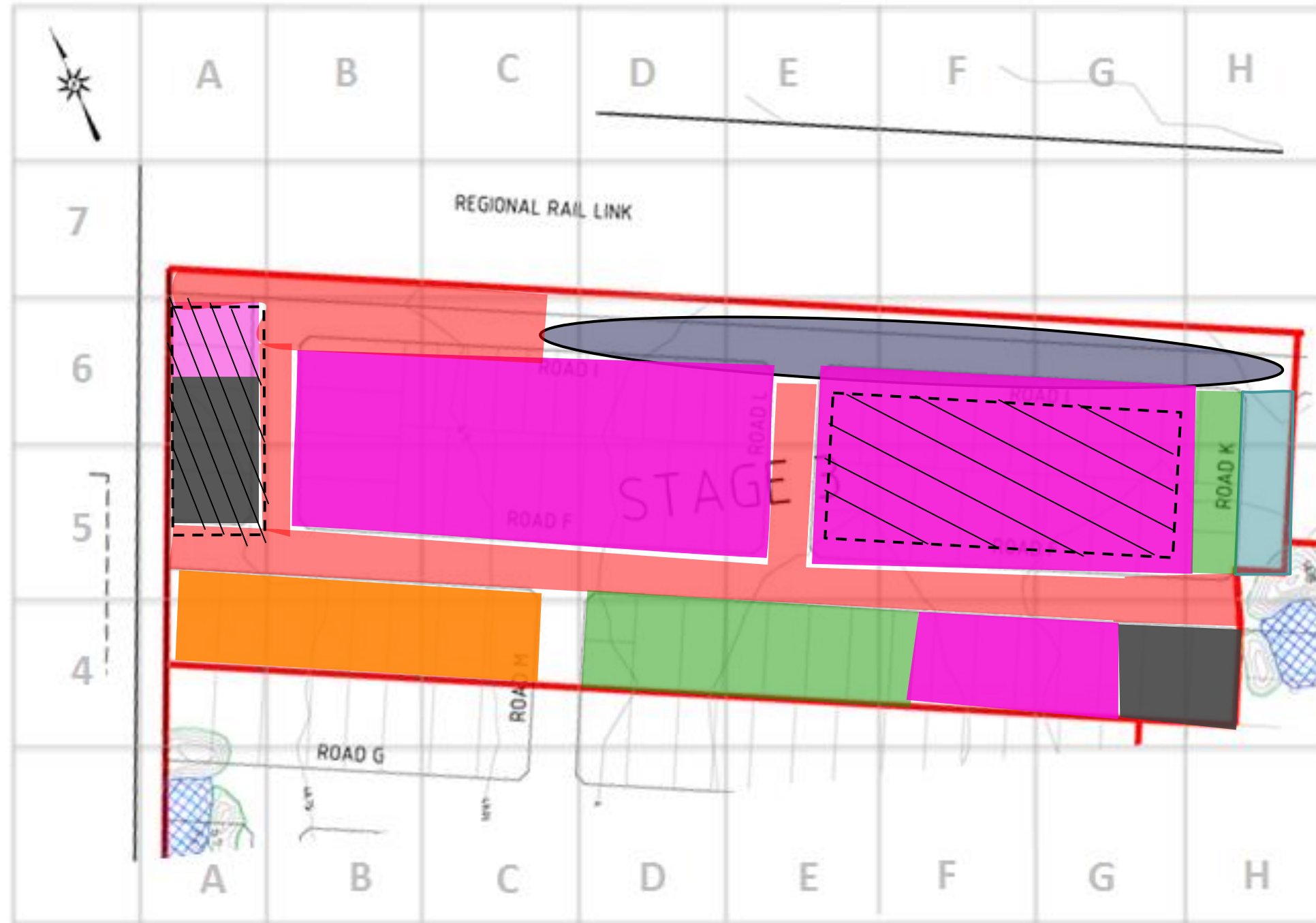
Stage 4: Compaction of layer 1 material placed in grid N4 and N5



Stage 4: Placement and compaction of layer 1 material in grid N4 and N5

revision	description	drawn	approved	date		drawn	BP		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE		
						date	14/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
15/12/2015	Tuesday	6.50 – 3.05	Brenton Petracca	Partly cloudy and 25°C	1 x Water Truck 1 x Deere Grader



Legend


	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Layer graded today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	BP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	15/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	
Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> Stockpiled material was moisture conditioned and then spread and graded to achieve RL's in grid F5, F6 (S), G5, G6 (S). Excess material on pad was cut by grader to achieve RL's in grid A5 (N) and A6. <p>Stage 4</p> <ul style="list-style-type: none"> Free tipping of material for future use in layer 4 was conducted in grid N4 and N5.
Fill/Material	<ul style="list-style-type: none"> 230m³ total loose material was imported for use in stage 3 (180m³ from Coburg and 50m³ from St Albans). The materials imported were silty clay in composition.
Test	No tests were conducted in any stages on this day.
Comments/On-site Communication	

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE	
					date	15/12/2015		title:	DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Stage 3: Moisture conditioning of stockpiled material in grid F5 and G5



Stage 3: Moisture conditioning of excess placed material prior to grading in grid A5 (N) and A6



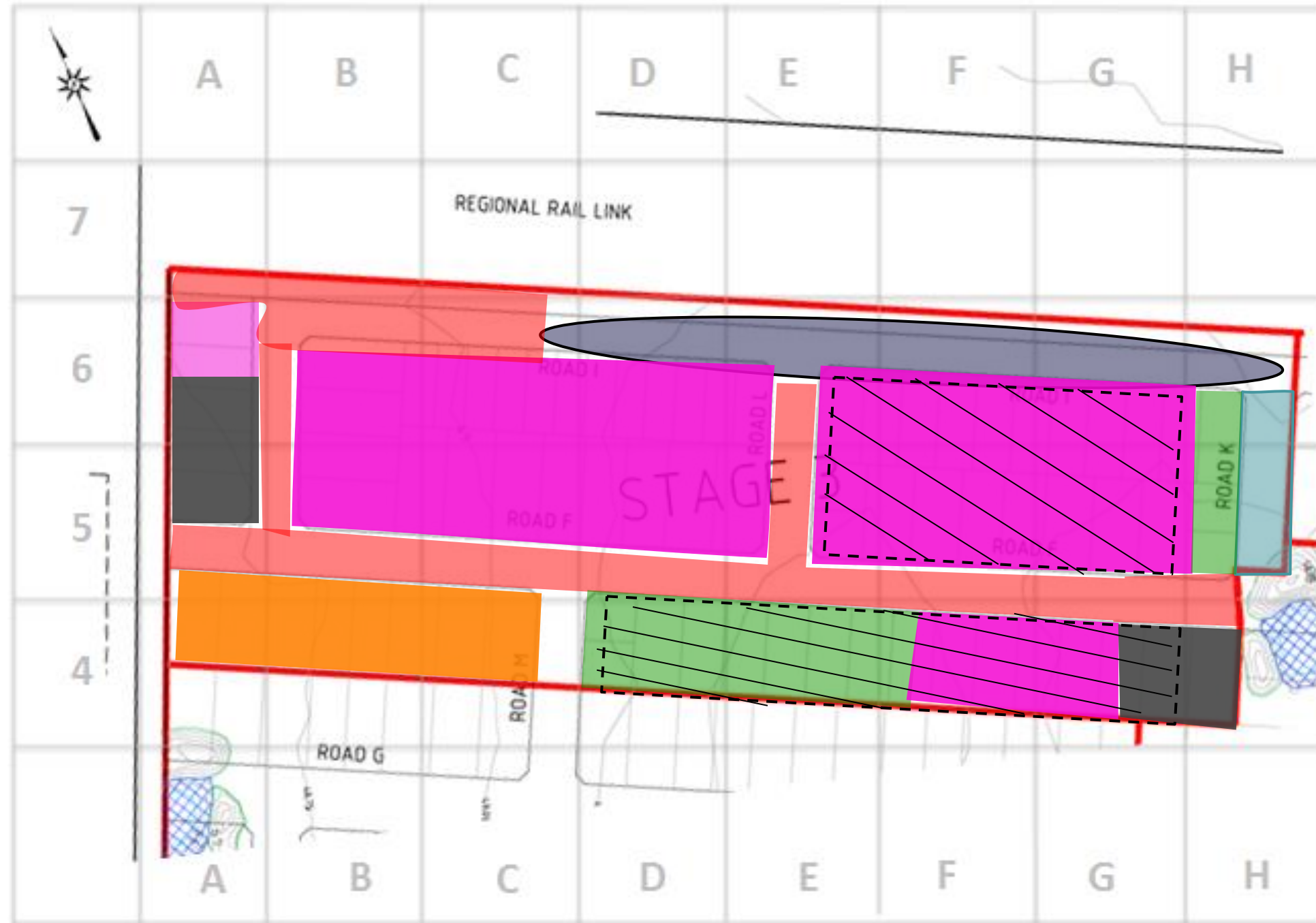
Stage 3: Grading of excess placed material in grid A5 (N) and A6















Stage 3: Spreading and grading of stockpiled material in grid F5 and G5

revision	description	drawn	approved	date		drawn	BP		client:	SPIRE	
						approved	SS		project:	LITTLE GREEN ESTATE	
						date	15/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
16/12/2015	Wednesday	6.50 – 3.20	Brenton Petracca	Sunny and 27°C	1 x Water Truck 1 x Deere Grader



Legend


	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Layer graded today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description				drawn	approved	date	drawn	BP		client:	SPIRE	
								approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	16/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection	
Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> Fill material was spread and graded to achieve RL's in grid F5, F6 (S), G5, G6 (S). Roadways adjacent to pad also graded. Material was also spread and graded in grid D4 (N), E4, F4 and G4. <p>Stage 4</p> <ul style="list-style-type: none"> Stockpiled material was placed as layer 1 in grid N4 and N5. Subgrade was moisture conditioned prior to placement. Stockpiled fill material was also moisture conditioned prior to placement. Layer 1 was compacted during placement by CAT compactor and additionally rolled.
Fill/Material	<ul style="list-style-type: none"> 1550m3 total loose material was imported for use in stage 3 and 4 (1280m3 from Ravenhall Prison and 270m3 from St Albans). The materials imported were silty clay in composition.
Test	No tests were conducted in any stages on this day.
Comments/On-site Communication	Paul from Fleet Plant Hire advised Coffey that no tests would be conducted on the layer 1 material placed in stage 4 today as the material was too dry and additional work was needed.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE		
					date	16/12/2015		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Spreading and grading of material in grid F5 and G5



Stage 4: Moisture conditioning of subgrade and stockpiled material in grid N4 and N5



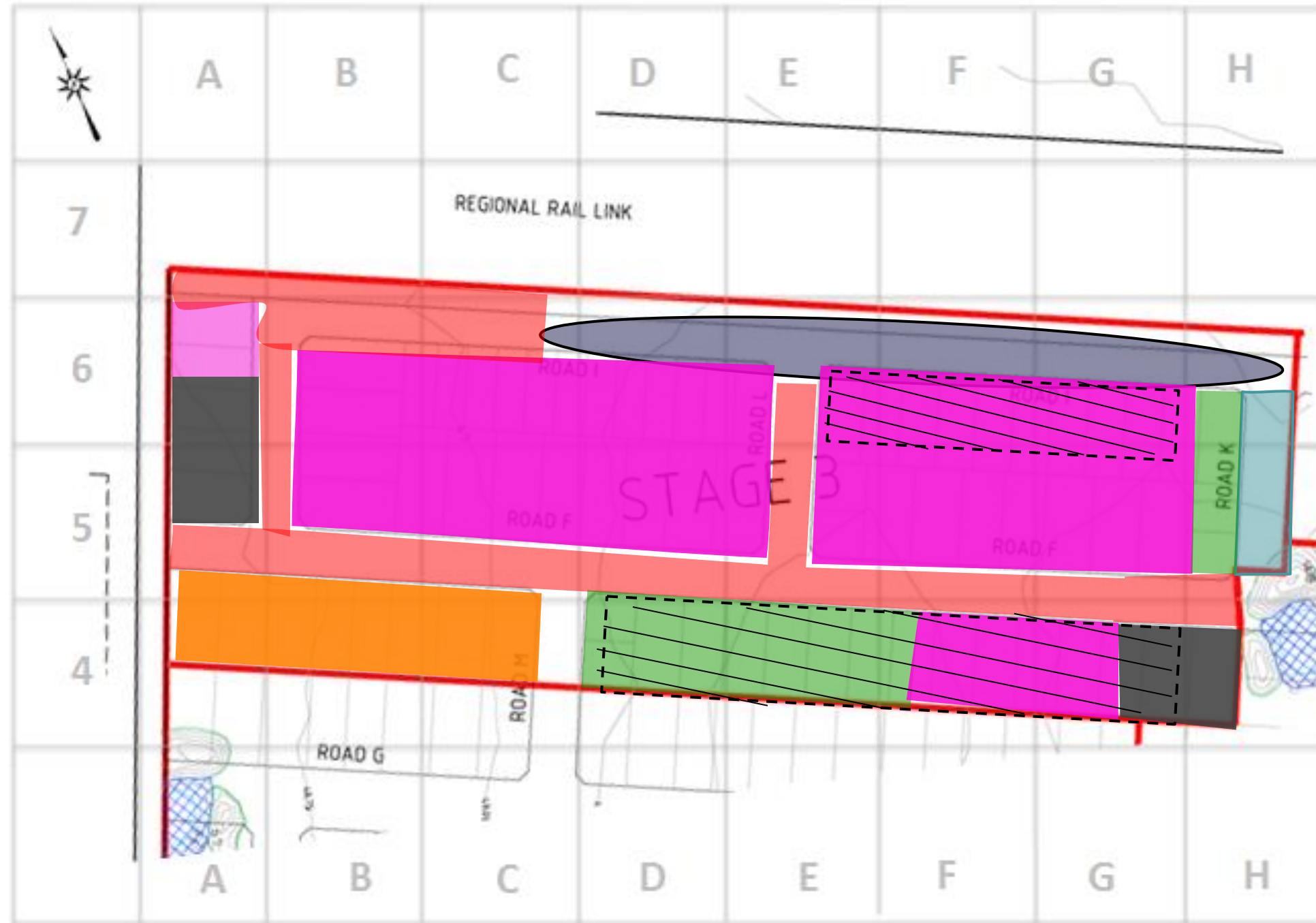
Stage 4: Placement and compaction of layer 1 material in grid N4 and N5.



Stage 4: Rolling of placed layer 1 material in grid N4 and N5

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE		
						date	16/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
17/12/2015	Thursday	6.50 – 3.35	Brenton Petracca	Sunny and a top of 37°C	1 x Water Truck 1 x Deere Grader



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Layer graded today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	17/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	
Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> Spreading and grading to achieve RL's in grid F6 (S), and G6 (S) continued today. Material continued to be spread and graded in grid D4 (N), E4, F4 and G4 to build up to RL's. <p>Stage 4</p> <ul style="list-style-type: none"> Stockpiled material was placed as layer 1 in grid O4 and O5. Subgrade was moisture conditioned prior to placement. Stockpiled fill material was also moisture conditioned prior to placement. Layer 1 was compacted during placement by CAT compactor and then again after placement. Additionally, the layer was moisture conditioned prior to testing.
Fill/Material	<ul style="list-style-type: none"> 1580m3 total loose material was imported for use in stage 4 (800m3 from South Yarra and 780m3 from South Melbourne). The materials imported were sandy clay in composition.
Test	<p>Stage 4</p> <ul style="list-style-type: none"> 3 tests were undertaken in layer 1 (10, 11 and 12). These were conducted in grid N5(S), O4(SW) and O5(NW) respectively.
Comments/On-site Communication	

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
10	X	N5(S)	1	2.06	1.80	14.5	99.0	2.5 dry	Pass
11	X	O4(SW)	1	1.98	1.65	20	98.5	2.5 dry	Pass
12	X	O5(NW)	1	1.89	1.74	8.5	89.0	2.5 dry	Fail

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE		
					date	17/12/2015		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Spreading and grading of material in grid D4 (N), E4, F4 and G4



Stage 4: Moisture conditioning of subgrade and stockpiled material in grid O4 and O5



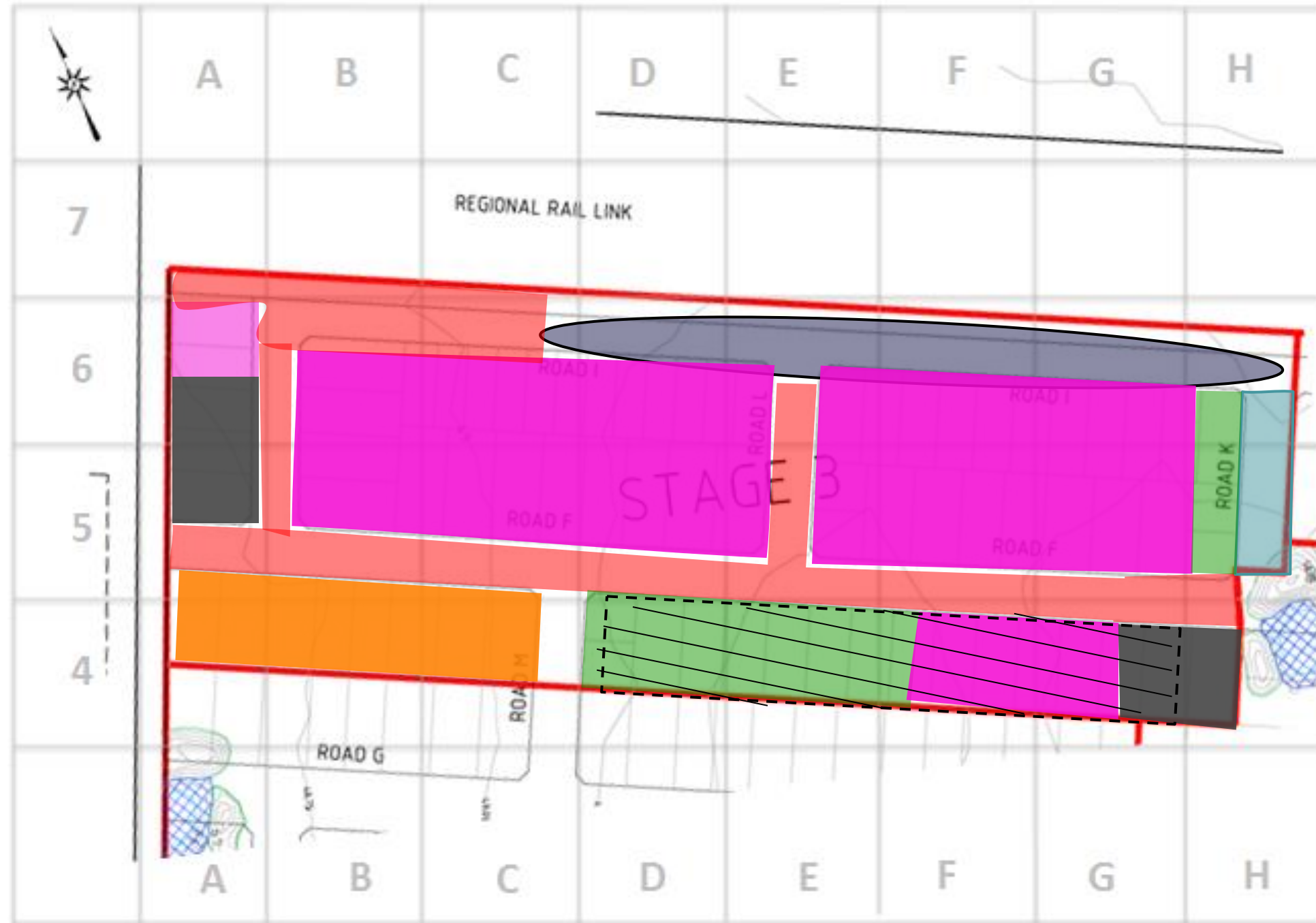
Stage 4: Placement and compaction of layer 1 material in grid N4, N5, O4 and O5.



Stage 4: Moisture conditioning of placed layer 1 material in grid O4 and O5

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE		
						date	17/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
18/12/2015	Friday	6.50 – 3.35	Brenton Petracca	Sunny and a top of 38°C	1 x Water Truck 1 x Deere Grader



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Layer graded today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	BP			client:	SPIRE		
					approved	SS			project:	LITTLE GREEN ESTATE- STAGE 3		
					date	18/12/2015			title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS			project no:	GEOTABTF09878AA	figure no:	
					original size	A3						

Subgrade Inspection	n/a
Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> Material continued to be spread and graded in grid D4 (N), E4, F4 and G4 to build up to RL's. Road K in grid H5 and H6 was graded. <p>Stage 4</p> <ul style="list-style-type: none"> Stockpiled material was placed as layer 1 in grid O3, O4 and O5. Subgrade was moisture conditioned prior to placement. Stockpiled fill material was also moisture conditioned prior to placement. Layer 1 was compacted during placement by CAT compactor and then again after placement with a padfoot roller. The layer was additionally moisture conditioned prior to testing. The perimeter of stage 4 was used to free tip imported material for future use.
Fill/Material	<ul style="list-style-type: none"> 5160m³ total loose material was imported for use in stage 4 (2500m³ from Werribee Plaza, 1000m³ from Essendon, 680m³ from South Yarra, 600m³ from South Melbourne and 380m³ from St Albans). The materials imported from South Melbourne and South Yarra were used in the placement of layer 1 whereas the remaining materials were stockpiled around the perimeter of stage 4. These materials were sandy and silty clay in composition.
Test	<p>Stage 4</p> <ul style="list-style-type: none"> 3 tests were undertaken in layer 1 (13, 14 and 15). Test 13 was a retest of number 12 which had failed the previous day conducted in grid O5 (NW). Tests 14 and 15 were undertaken in grid O5 (NE) and O3 (NE) respectively.
Comments/On-site Communication	Paul from Fleet Plant Hire was advised that test number 12, one of the three tests undertaken the day before (17/12/15), had failed the compaction requirements and that the area in grid O5 (NW) would have to be reworked for a retest. The other two tests passed the minimum requirements and additional fill may be placed.

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
13	12	O5 (NW)	1	2.08	1.83	13.5	99.0	2.0 dry	Pass
14	X	O5 (NE)	1	1.93	1.63	18.5	95.0	0.5 dry	Pass
15	x	O3 (NW)	1	2.04	1.80	13.5	97.5	2.0 dry	Pass

revision					approved	SS		project:	LITTLE GREEN ESTATE		
					date	18/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Spreading and grading of material on road K in grid H5 and H6



Stage 4: Moisture conditioning of subgrade and stockpiled material in grid O3, O4 and O5



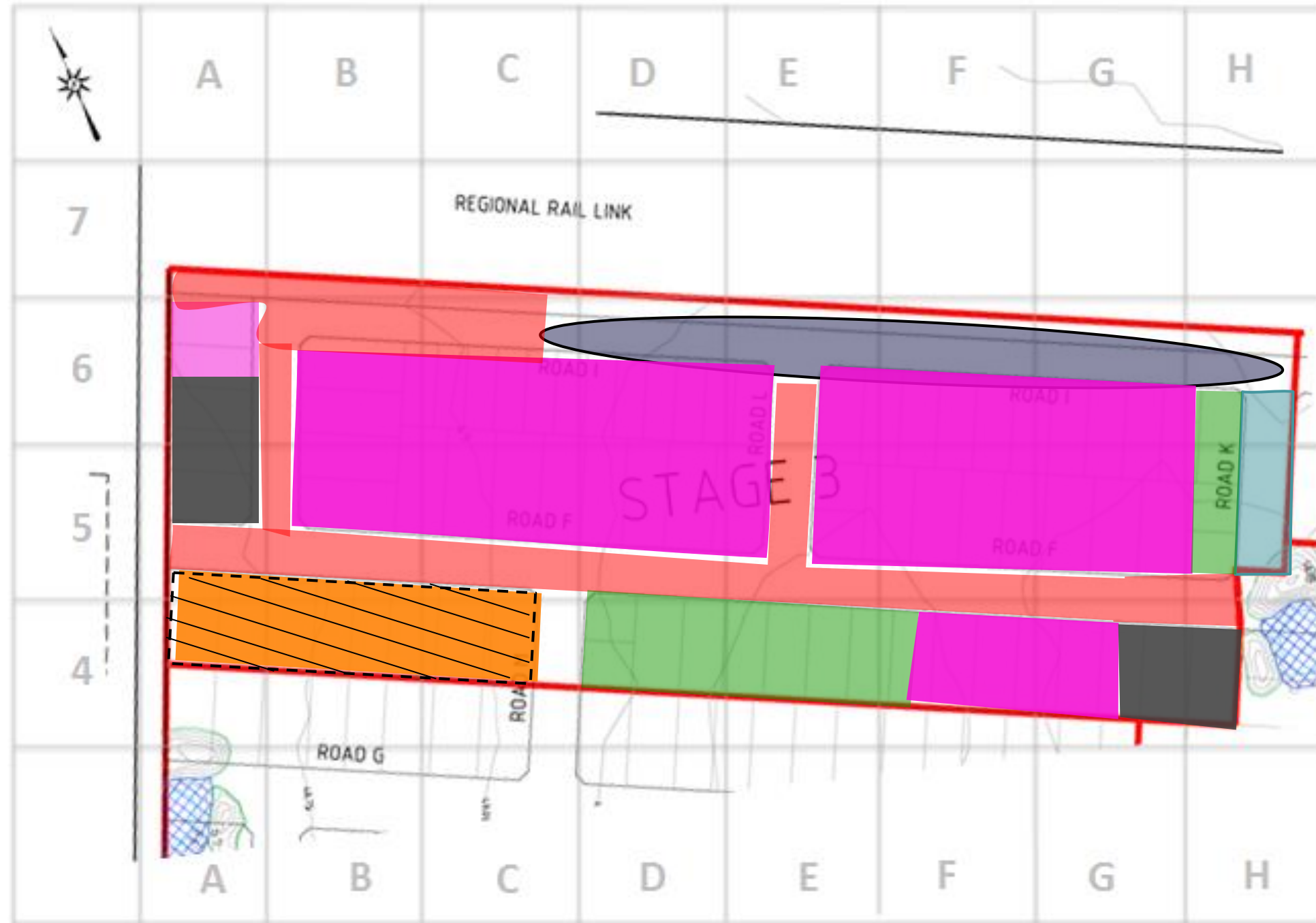
Stage 3: Spreading and grading of material in grid D4, E4, F4 and G4



Stage 4: Placing of stockpiled material in grid O3, O4 and O5

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE	
						approved	SS		project:	LITTLE GREEN ESTATE	
						date	18/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
21/12/2015	Monday	7.00 – 3.00	Brenton Petracca	Cloudy, top of 21°C	1 x Water Truck 1 x Deere Grader



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Layer graded today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location

revision	description				drawn	approved	date	drawn	BP		client:	SPIRE	
								approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	21/12/2015		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection	
Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> Material was built up, spread and graded by Deere grader in grid A4 (N), B4 (N) and C4 (N). <p>Stage 4</p> <ul style="list-style-type: none"> Stockpiled material was placed as layer 2 in grid H5 (NE), H6 (SE), I5 (N) and I6 (S). Layer 1 was moisture conditioned prior to placement of layer 2. the fill material was compacted during placement and additional moisture conditioning on the placed material was performed. Material was not rolled today. Stockpiles from South Melbourne and South Yarra were placed in grid O3, O4 and O5 for future use.
Fill/Material	<ul style="list-style-type: none"> 1950m3 total loose material was imported for use in stage 4 (1360m3 from Port Melbourne and 590m3 from South Yarra). The imported material was sandy and silty clay in composition.
Test	No Tests were conducted today.
Comments/On-site Communication	Paul from Fleet Plant Hire was advised that tests 13, 14 and 15 had passed and placement of additional layer was approved.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision					approved	SS		project:	LITTLE GREEN ESTATE		
					date	21/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Spreading and grading to RL's in grid A4 (N), B4 (N) and C4 (N).



Stage 4: Moisture conditioning of layer 1 and stockpiled material prior to placement of layer 2 in grid H5 (NE), H6 (SE), I5 (N) and I6 (S)



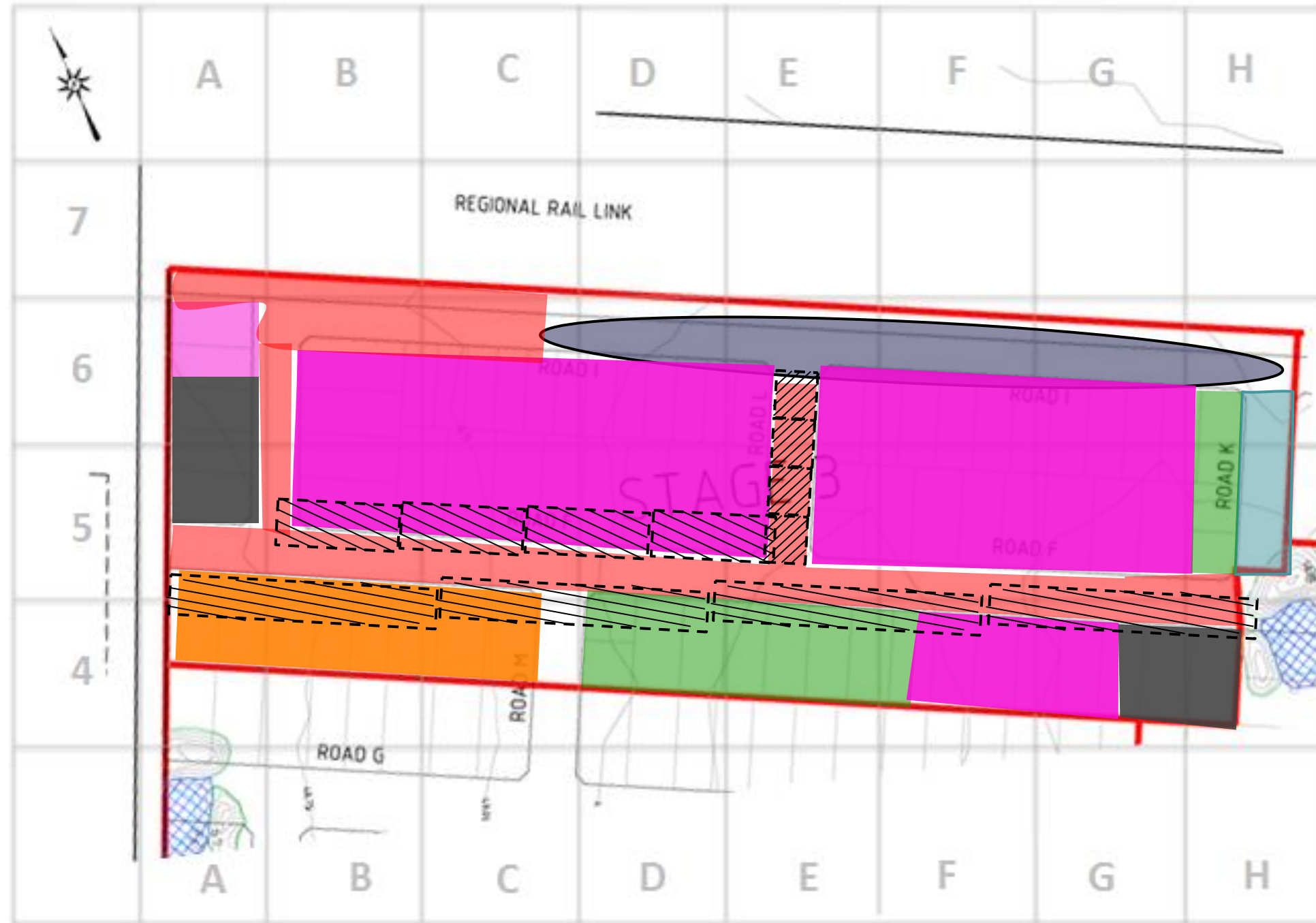
Stage 4: Moisture conditioning of layer 2 material after placement in grid H5 (NE), H6 (SE), I5 (N) and I6 (S)



Stage 4: Placing of layer 2 in grid H5 (NE), H6 (SE), I5 (N) and I6 (S)

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE		
						date	21/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
22/12/2015	Tuesday	7.00 – 3.00	Brenton Petracca	Sunny top of 25°C	1 x Water Truck 1 x Deere Grader



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location
	Material graded today


revision	description				drawn	approved	date	drawn	BP	client:	SPIRE
								approved	SS	project:	LITTLE GREEN ESTATE- STAGE 3
								date	22/12/2015	title:	DAILY RECORD – LEVEL 1 GITA
								scale	NTS	project no:	GEOTABTF09878AA
								original size	A3	figure no:	



Subgrade Inspection	
Placing/Compaction	<p>Stage 4</p> <ul style="list-style-type: none"> Stockpiled material was placed as layer 1 in grid N3 (NE), O3 (N), O4 (E) and O5 (E). The subgrade was moisture conditioned prior to placement of the layer. the fill material was compacted during placement and additional moisture conditioning on the placed material was performed. Layer was rolled prior to testing. Material was built up to fill in uneven surfaces on layer 1 grid N4 and N5 by grader. The fill material did not exceed 50mm however in this report can be considered the bottom of layer 2. Previously placed layer 2 material in grid I5 (N), I6 (S), J5 (NW) and J6 (SW) was moisture conditioned and rolled prior to testing. <p>Stage 3</p> <ul style="list-style-type: none"> Material along edges of pads and roads were graded to build up to RL's.
Fill/Material	<ul style="list-style-type: none"> 2020m3 total loose material was imported for use in stage 4 (1120m3 from Ravenhall Prison and 900m3 from South Melbourne). The imported material was sandy and silty clay in composition.
Test	<p>Tests conducted today:</p> <p>Layer 1</p> <ul style="list-style-type: none"> 2 tests were undertaken (18 and 19). These took place in grid O4 (NE) and O3 (NE) respectively. <p>Layer 2</p> <ul style="list-style-type: none"> 2 tests were undertaken (16 and 17). These took place in grid I5 (N) and J6 (SW) respectively.
Comments/On-site Communication	

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
16	x	I5 (N)	2	1.90	1.59	20.0	95	0.5 dry	Pass
17	x	J6 (SW)	2	1.96	1.66	17.5	99.5	2.5 dry	Pass
18	x	O4 (NE)	1	2.09	1.89	10.5	96.0	1.5 dry	Pass
19	x	O3 (NE)	1	1.98	1.62	22.0	97.0	0.0	Pass

revision					approved	SS		project: LITTLE GREEN ESTATE	
					date	22/12/2015		title: DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no: GEOTABTF09878AA figure no:	
					original size	A3			



Stage 4: Placing of layer 1 material in grid N3 (E), O3, O4 (E), and O5 (E)



Stage 4: Moisture conditioning of subgrade prior to layer 1 placement in grid N3 (E), O3, O4 (E), and O5 (E)



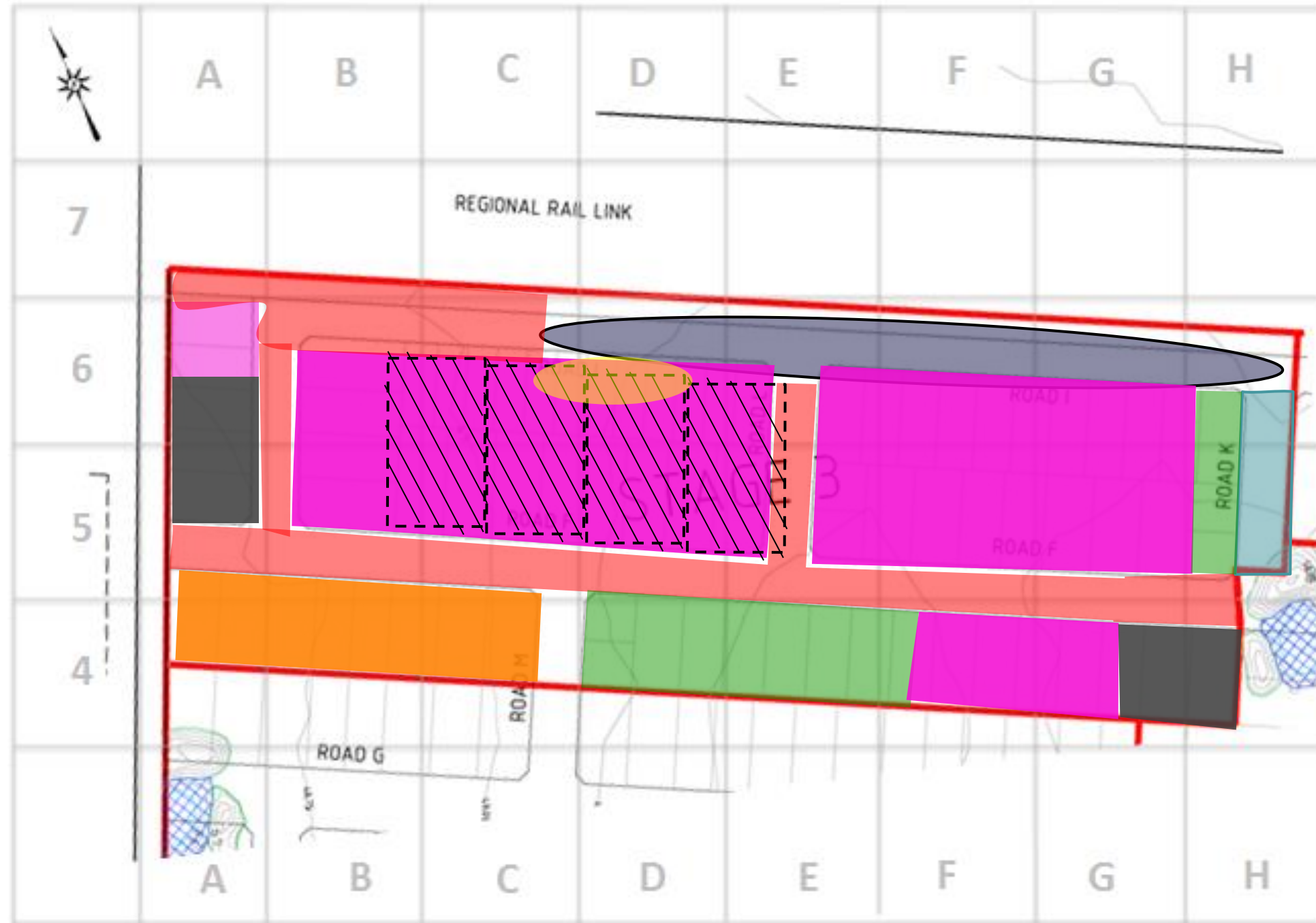
Stage 4: Filling in of uneven surfaces on layer 1 by grader in grid N4 and N5



Stage 4: Rolling of layer 2 in grid I5(N), I6(S), J5(NW) and J6(SW)

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE		
						date	22/12/2015		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
04/01/2016	Monday	6.50 – 2.50	Brenton Petracca	Partly sunny, top of 24°C	1 x Water Truck 1 x Deere Grader



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location
	Material graded today

revision	description	drawn	approved	date		drawn	BP		client:	SPIRE		
						approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	04/01/2016		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Subgrade Inspection	
Placing/Compaction	<p>Stage 4</p> <ul style="list-style-type: none"> Previously stockpiled material was placed as layer 1 in grid N2 (E) and O2 (N). The subgrade and stockpiled material was moisture conditioned prior to placement of the layer. Layer 1 was compacted during placement by CAT compactor. Stockpiled material was also placed adding to layer 1 along the edges of the pad in grid K6 (S), L6 (S), M6 (S), N6 (S) and O6 (S). Subgrade and stockpiled material was moisture conditioned prior to placement. Layer was compacted during placement by CAT compactor. <p>Stage 3</p> <ul style="list-style-type: none"> Pad graded to RL's in grid C5 (N), C6 (S), D5 (N), D6 (S), E5 (NW) and E6 (SW).
Fill/Material	<ul style="list-style-type: none"> 60m3 total loose silty clay was imported from St Albans for use in stage 3 and 4.
Test	No tests were conducted in any stage today.
Comments/On-site Communication	Paul from Fleet Plant Hire was advised that all tests conducted on layers 1 and 2 of stage 4 on 22/12/2015 had passed and that placement of additional material was approved.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE	
					date	04/01/2016		title:	DAILY RECORD - LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				



Stage 4: Placing of layer 1 material in grid N2 (E) and O2



Stage 4: Moisture conditioning of subgrade prior to layer 1 placement in grid N2 (E) and O2



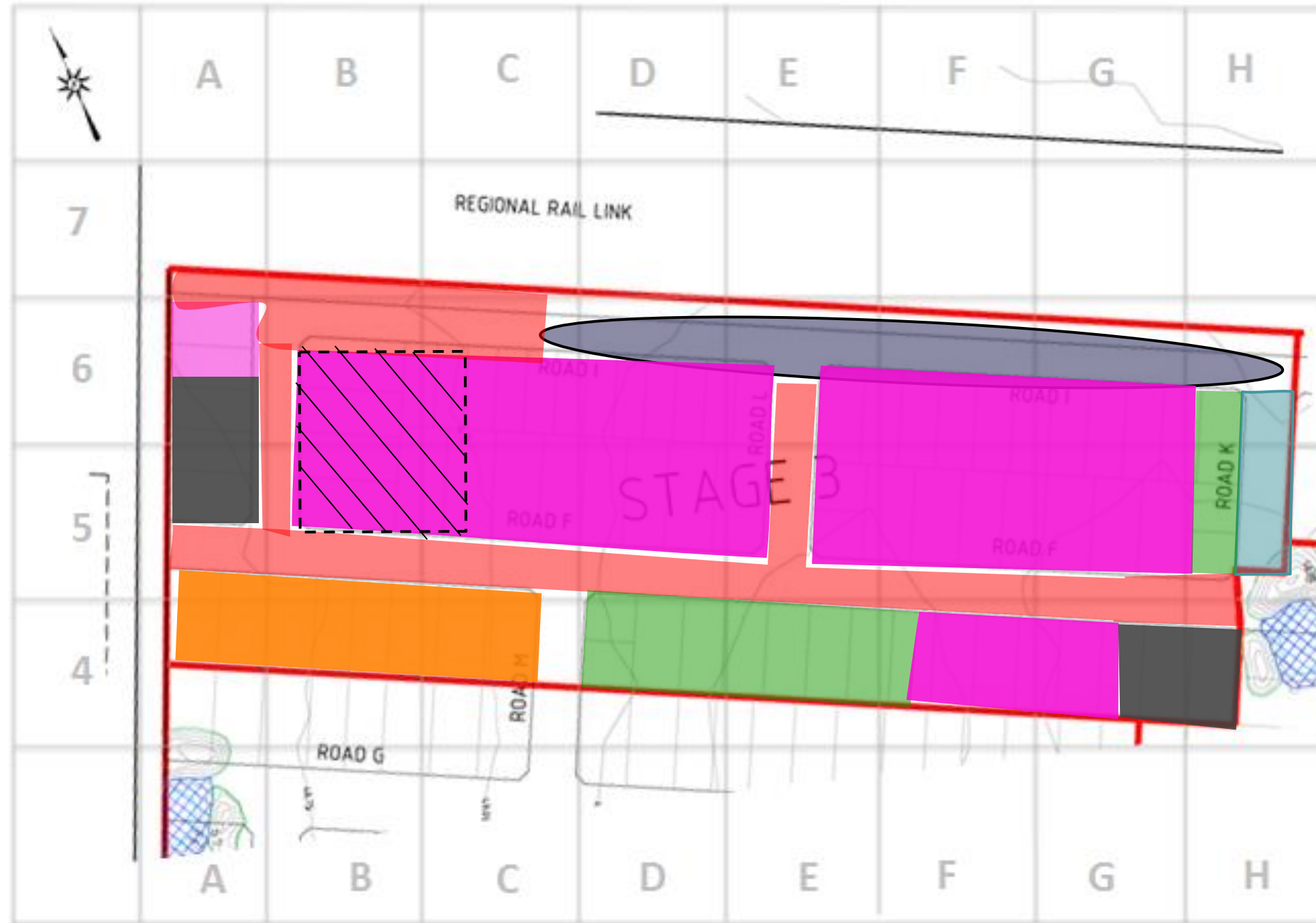
Stage 3: Grading to RL's in grid C5 (N), C6 (S), D5 (N), D6 (S), E5 (NW) and E6 (SW)















Stage 4: Placement of layer 1 in grid K6 (S), L6 (S), M6 (S), N6 (S) and O6 (S).

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE		
						date	04/01/2016		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
05/01/2016	Tuesday	6.50 – 3.00	Brenton Petracca	Partly cloudy, top of 26°C	1 x Water Truck 1 x Deere 770CH Grader 1 x CAT 815F compactor 1 x Padfoot roller



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location
	Material Scarified today

revision	description	drawn	approved	date	drawn	BP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	05/01/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	
Placing/Compaction	<p>Stage 4</p> <ul style="list-style-type: none"> Some material stockpiled for future placement. Previously placed stockpiles moved in order to help with future placement of material. <p>Stage 3</p> <ul style="list-style-type: none"> Material scarified, moisture conditioned and compacted/rolled in preparation for future testing in grid B5, B6, C5 (W) and C6 (W).
Fill/Material	<ul style="list-style-type: none"> 20m3 total loose silty clay was imported from St Albans for use in stage 4.
Test	No tests were conducted in any stage today.
Comments/On-site Communication	Paul from Fleet Plant Hire has advised Coffey that the required testing on scarified layer in grid B5, B6, C5 (W) and C6 (W) will be conducted tomorrow.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

revision	description	drawn	approved	date	drawn	BP		client:	SPIRE		
					approved	SS		project:	LITTLE GREEN ESTATE		
					date	05/01/2016		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Scarifying of material in grid B5, B6, C5 (W) and C6 (W).



Stage 3: Moisture conditioning of scarified material in grid B5, B6, C5 (W) and C6 (W).



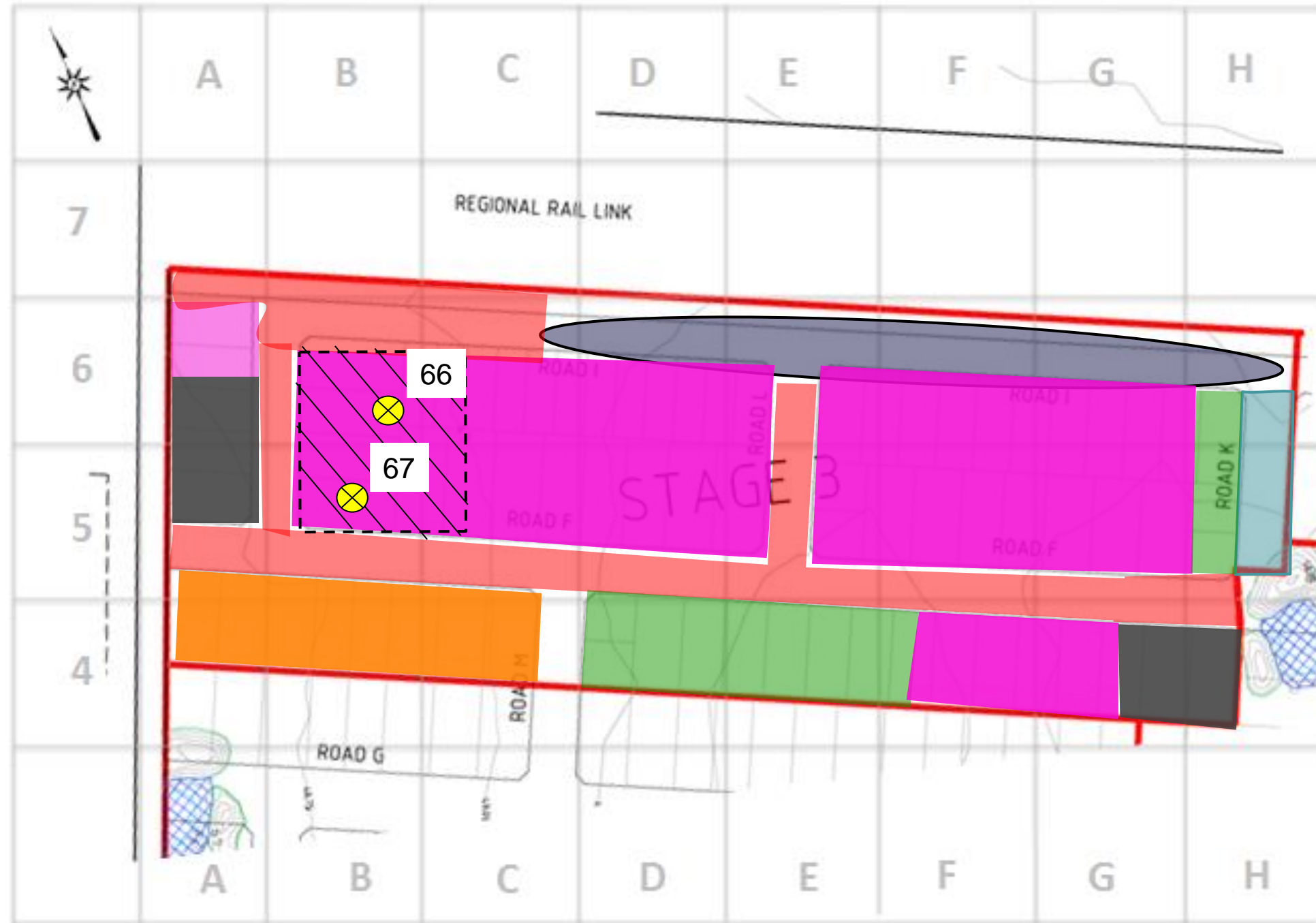
Stage 3: Compacting of scarified and moisture conditioned material in grid B5, B6, C5 (W) and C6 (W).



Stage 4: Displacement of stockpiles in order to assist with future layer placement.

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE		
						date	05/01/2016		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
06/01/2016	Wednesday	6.50 – 3.00	Brenton Petracca	Couple of light showers, top of 25°C	1 x Water Truck 1 x Deere 770CH Grader 1 x CAT 815F compactor 1 x Padfoot roller



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location
	Material Scarified today

revision	description	drawn	approved	date	drawn	BP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	06/01/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	
Placing/Compaction	<p>Stage 4</p> <ul style="list-style-type: none"> Some material stockpiled for future placement. Various roadways graded. <p>Stage 3</p> <ul style="list-style-type: none"> Material again scarified, moisture conditioned and compacted/rolled in preparation for testing in grid B5, B6, C5 (W) and C6 (W). Various roadways graded. Road in grid A5 and A6 built up by grader.
Fill/Material	<ul style="list-style-type: none"> 790m3 total loose silty clay and mudstone was imported for use in stage 3 and 4. 580m3 was sourced from Coburg and the remaining 210m3 was imported from St Albans.
Test	2 tests were conducted in stage 3 today (#66 and #67) which were performed respectively in grid B6 (SE) and B5.
Comments/On-site Communication	

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
66	X	B6 (SE)	3	1.84	1.46	26.0	95.5	0.0	Pass
67	X	B5	3	1.83	1.46	25.5	100.5	4.5 dry	Fail

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE		
					date	06/01/2016		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Scarifying of material in grid B5, B6, C5 (W) and C6 (W).



Stage 3: Moisture conditioning of scarified material in grid B5, B6, C5 (W) and C6 (W).



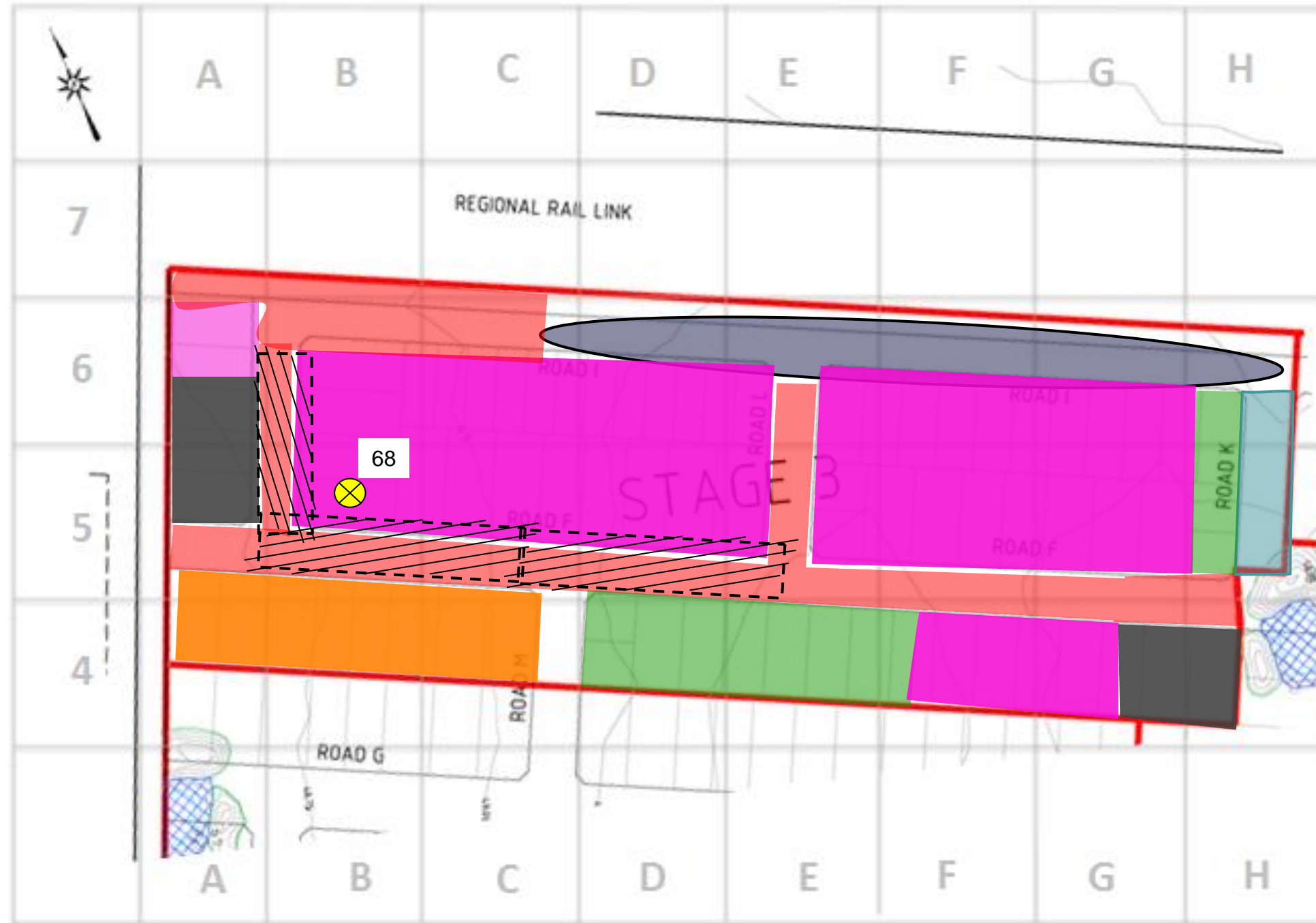
Stage 3: Compacting of scarified and moisture conditioned material in grid B5, B6, C5 (W) and C6 (W).



Stage 3: Rolling of worked material in grid B5, B6, C5 (W) and C6 (W).

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE		
						date	06/01/2016		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
07/01/2016	Thursday	6.50 – 3.00	Brenton Petracca	Mostly cloudy, top of 21°C	1 x Water Truck 1 x Deere 770CH Grader



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location
	Material worked with grader today

revision	description	drawn	approved	date	drawn	BP		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	07/01/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	
Placing/Compaction	<p>Stage 4</p> <ul style="list-style-type: none"> Layer 1 built up by compactor in grid N2 (E) and O2. Material was moisture conditioned and compacted during placement. Previously placed stockpiles spread by grader to build up layer 1 in grid J6, K6 (S), L6 (S), M6 (S) and N6 (S). <p>Stage 3</p> <ul style="list-style-type: none"> Roadways and pad edges built up by grader.
Fill/Material	<ul style="list-style-type: none"> 1080m3 total loose mudstone was imported for use in stage 3 and 4 from Coburg.
Test	<p>Stage 3</p> <ul style="list-style-type: none"> 1 Test was conducted in stage 3 today (#68 which was a retest of #67, performed on the 6/1/16). This was conducted in grid B5.
Comments/On-site Communication	Paul from Fleet Plant Hire was advised that out of the tests conducted on the 6/1/16, test number 67 had failed the moisture variation spec and a retest would need to be conducted. Test 66 had passed and placement of additional material was approved.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
68	67	B5	3	1.89	1.47	28.0	98.0	0.0	Pass

revision	description	drawn	approved	date	drawn	BP		client:	SPIRE		
					approved	SS		project:	LITTLE GREEN ESTATE		
					date	07/01/2016		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Building up of material in roadways.



Stage 4: Placement of layer 1 in grid N2 (E) and O2.



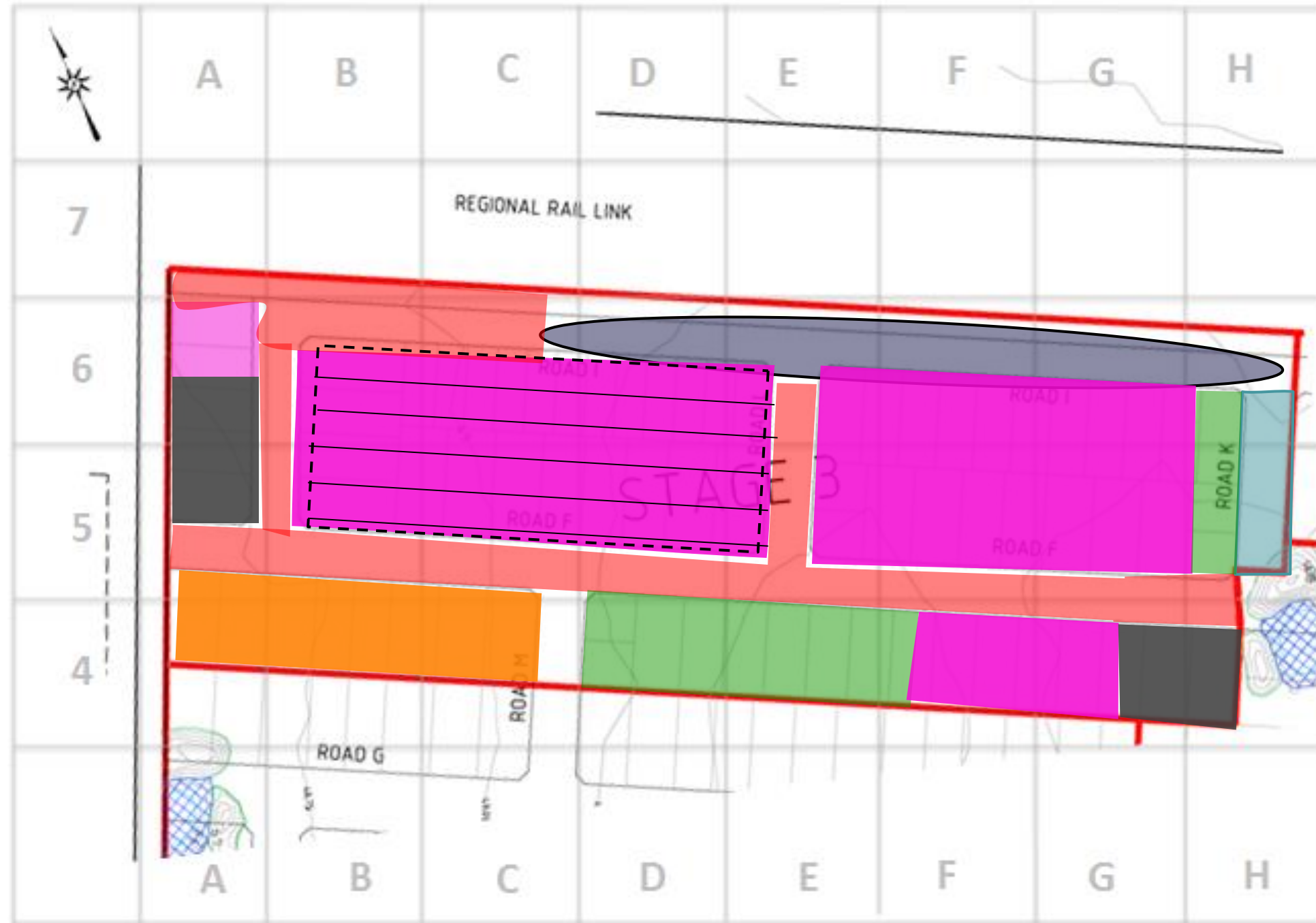
Stage 4: Moisture conditioning of placed layer 1 material in grid N2 (E) and O2.



Stage 4: Placement of previously stockpiled material by grader in grid J6, K6 (S), L6 (S), M6 (S) and N6 (S).

revision	description	drawn	approved	date		drawn	BP		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE		
						date	07/01/2016		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
08/01/2016	Friday	7.00 – 3.00	Brenton Petracca	Partly cloudy with a top of 23°C	1 x Water Truck 1 x Deere 770CH Grader



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Boulder stockpile
	Stockpiled fill
	Test location
	Material worked with grader today

revision	description				drawn	approved	date	drawn	BP		client:	SPIRE	
								approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	08/01/2016		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection	
Placing/Compaction	<p>Stage 4</p> <ul style="list-style-type: none"> Layer 1 built up by compactor in grid N2 (E) and O2. Material was moisture conditioned and compacted during placement. Layer was also Rolled by padfoot roller prior to testing Previously placed layer 1 material in grid J6, K6 (S), L6 (S), M6 (S) and N6 (S) rolled by padfoot roller. <p>Stage 3</p> <ul style="list-style-type: none"> Roadways and pad edges built up by grader. Pad in grid B5, B6, C5, C6, D5 and D6 graded to RL.
Fill/Material	<ul style="list-style-type: none"> 200m3 total loose mudstone was imported for use in stage 3 and 4 from Coburg.
Test	<p>Stage 4</p> <ul style="list-style-type: none"> Two tests were undertaken on layer 1 (#20 and #21). These were conducted in grid O2 (E) and N2 (E) respectively.
Comments/On-site Communication	Paul from Fleet Plant Hire was advised that test number 68, the retest of number 67 had passed the specifications required.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or – 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
20	X	O2 (E)	1	2.20	1.94	14.0	104.0	0.5 dry	Pass
21	x	N2 (E)	1	1.96	1.69	16.0	95.0	0.5 dry	Pass

revision	description	drawn	approved	date	drawn	BP		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE		
					date	08/01/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Grading of pad in grid B5, B6, C5, C6, D5 and D6 .



Stage 4: Further placement of layer 1 in grid N2 (E) and O2.



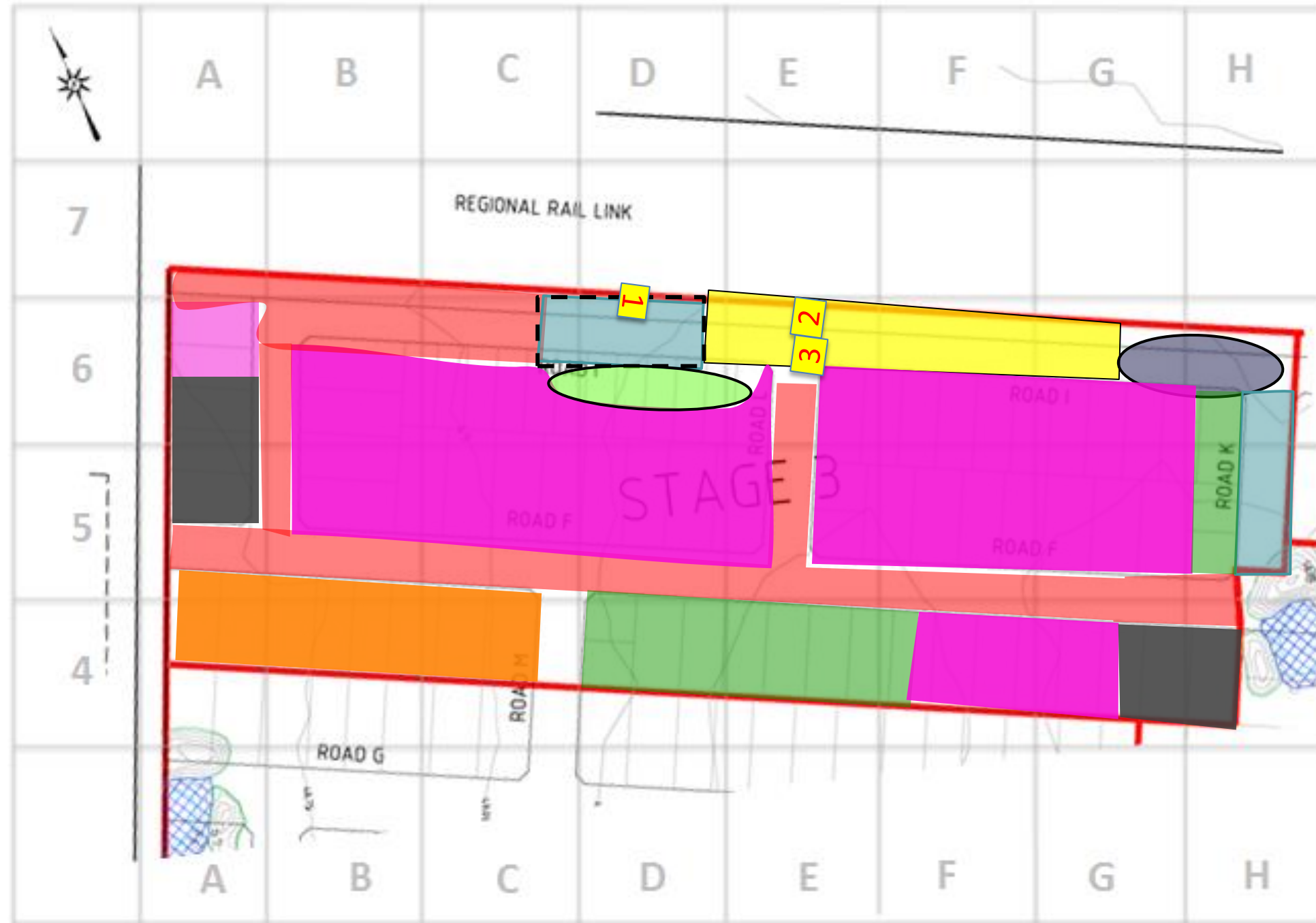
Stage 4: Moisture conditioning of placed layer 1 material in grid N2 (E) and O2.



Stage 4: Rolling of placed material in grid N2 (E) and O2

revision	description	drawn	approved	date		drawn	BP		client:	SPIRE	
						approved	SS		project:	LITTLE GREEN ESTATE	
						date	08/01/2016		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
23/05/2016	Monday	7:20 – 15:30	Ronn Bilgili Sotir Stojcevski at 9am	Partly cloudy, top of 16°C	1 x Water Cart 1 x Pad foot roller 1x Grader



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Approximate location of photos
	Topsoil stripped
	Fill Material stockpile

revision	description	drawn	approved	date	drawn	ST		client:	SPIRE	
					approved	RB		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	23/05/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	<ul style="list-style-type: none"> • Proof roll has been done with water cart in D,E,F - 6 • Subgrade ripped and moisture conditioned
Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> • 1 layer placed by grader on grid D6 as indicated • Pad foot roller compacted the layer • Water cart moisture conditioned soils during placement
Fill/Material	<ul style="list-style-type: none"> • Material sourced from site stockpile at stage 3 and from excavation work of road boxing
Test	<p>Stage 3</p> <ul style="list-style-type: none"> • Two tests were conducted today • 1 x test on grid D6 south at the back of the lots • 1 x test on grid D6 center at road reserve
Comments/On-site Communication	<ul style="list-style-type: none"> • Due to flat tire on grader delay occurred around 12pm • Coffey's PM visited site in the morning to meet with BMD and discuss concern regarding construction of the new engineered fill at the rear of the lots in D6 to G6 where large stockpiles are present within the edge of the existing engineered platforms. The stockpiles need to be moved in order for the subgrade be proof rolled and existing engineered platforms batter be exposed. The batters of the existing compacted fill to be properly benched in order for the new engineered fill be constructed adequately.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
69		D6	1	1.88	1.57	19.2	92	0	Fail
70		D6	1	1.86	1.50	24.4	98.5	2.5 Dry	Pass

revision	description	drawn	approved	date	drawn	ST		client:	SPIIRE		
					approved	RB		project:	LITTLE GREEN ESTATE		
					date	23/05/2016		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



1. Proof roll has been done with water cart



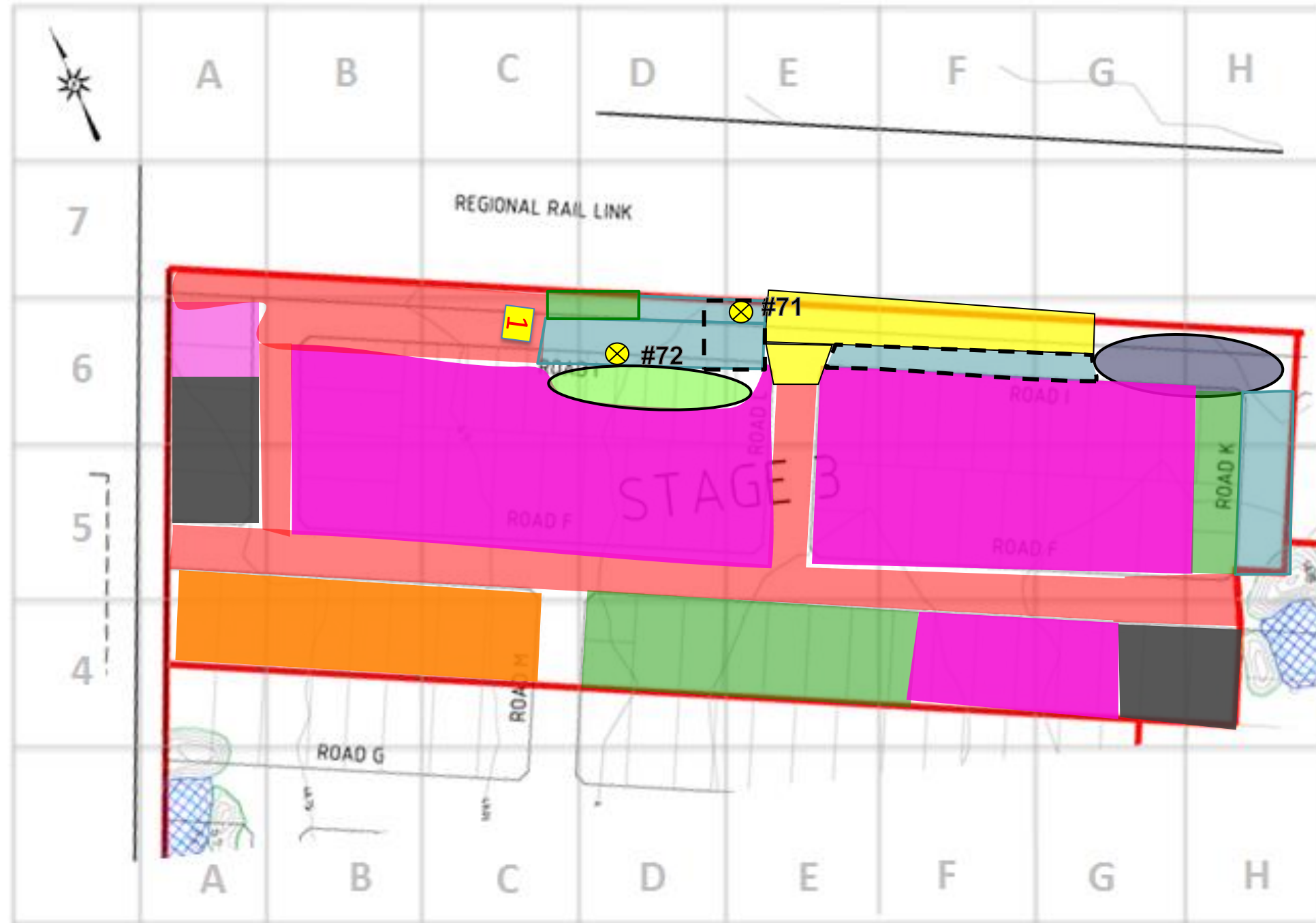
2. Subgrade ripping on grid D6



3. Material placement on grid D6

revision	description	drawn	approved	date	drawn	ST		client:	SPIIRE		
					approved	RB		project:	LITTLE GREEN ESTATE		
					date	23/05/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
24/05/2016	Tuesday	7:00 – 16:30	Ronn Bilgili	Partly cloudy, top of 16°C	1 x Water Cart 2 x Pad foot roller 1x Grader



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Topsoil
	Layer placed today
	Topsoil stockpile
	Approximate location of photos
	Topsoil stripped
	Fill Material stockpile
	Test location

revision	description	drawn	approved	date	drawn	RB		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	24/05/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	<ul style="list-style-type: none"> In indicated working areas, before layer 1 was placed, subgrade was ripped and moisture conditioned
Placing/Compaction	<p>Stage 3</p> <ul style="list-style-type: none"> Layer placed along small strip on grids E6, F6, G6 Layer 1 placed on grid E6 as indicated Layer 2 placed on grid D6 road reserve Pad foot roller compacted the newly placed layer Water cart moisture conditioned the newly placed layer
Fill/Material	<ul style="list-style-type: none"> Material sourced from site stockpile at stage 3 and from excavation work of road boxing
Test	<p>Stage 3</p> <ul style="list-style-type: none"> Two tests were conducted today 1 x retest on grid D6 south at the back of the lots 1 x test on grid E6 as indicated
Comments/On-site Communication	<ul style="list-style-type: none"> Coffey's PM visited site in the morning of 23.05.2016 to meet with BMD and discuss concern regarding construction of the new engineered fill at the rear of the lots in D6 to G6 where large stockpiles are present within the edge of the existing engineered platforms. The stockpiles need to be moved in order for the subgrade be proof rolled and existing engineered platforms batter be exposed. The batters of the existing compacted fill to be properly benched in order for the new engineered fill be constructed adequately.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
71		E6	1	1.94	1.57	23.8	102	2.5 Dry	Pass
72	69	D6	1	1.94	1.58	22.6	96	0.5 Dry	Pass

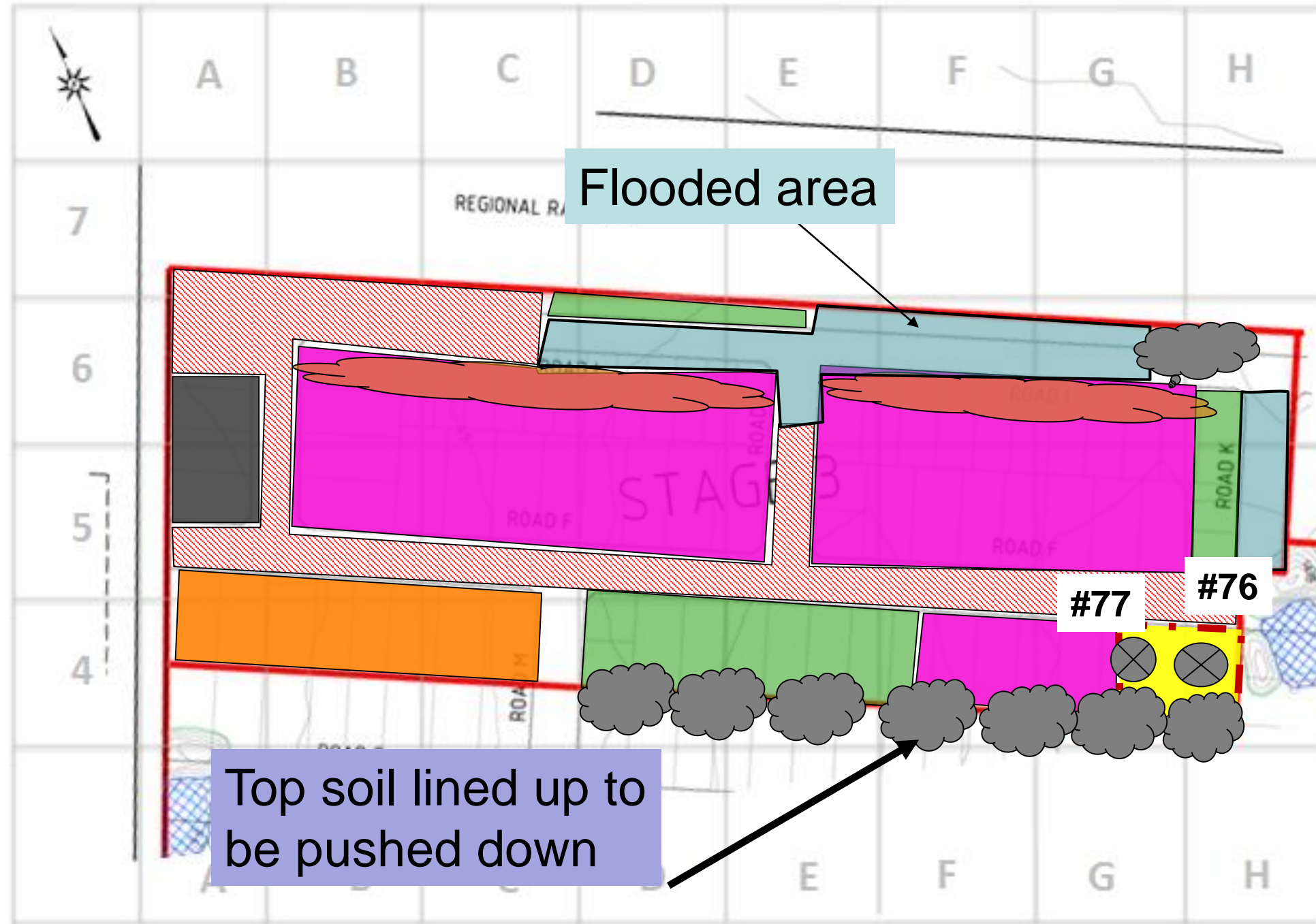
revision	description	drawn	approved	date	drawn	RB		client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE		
					date	24/05/2016		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



3. General view of the site and Pad foot roller working on layer 1 due to failed test

revision	description	drawn	approved	date		drawn	RB		client:	SPIIRE		
						approved	SS		project:	LITTLE GREEN ESTATE		
						date	24/05/2016		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
21/07/2016	Thursday	7:00AM– 04:00PM	Kong Guo	Partly cloudy, 13°C	1 x 18t Pad foot roller 1x Grader



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer 5
	Topsoil
	Layer placed today
	Topsoil stockpile
	Stockpiled fill
	Test location

revision	description				drawn	approved	date	drawn	KG		client:	SPIRE	
								approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	21/07/2016		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection	N/A
Placing/Compaction	<ul style="list-style-type: none"> • Stage 3: Layer 5 was placed and compacted in grid G4 and H4; • Stage 4: Layer 4 and Layer 3 were placed and compacted in grid K5 and L5;
Fill/Material	<ul style="list-style-type: none"> • Fill material silty clay was won from excavation works from other stages;
Test	<ul style="list-style-type: none"> • Stage 3: 2 field density tests were conducted as indicated; • Stage 4: 2 field density tests were conducted as indicated;
Comments/On-site Communication	<ul style="list-style-type: none"> • Stage 3: Continuation of work on 25-5-2016 <ul style="list-style-type: none"> ○ 100mm-200mm in depth of fill was placed unevenly across the fill area as indicated in order to achieve final finish level; • Stage 4: <ul style="list-style-type: none"> ○ 100mm-200mm in depth of fill was placed unevenly across the fill area as indicated in order to achieve final finish level;

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
103 (Stage 4)	X	K5	4	2.00	1.7	17.8	100.0	0.5 dry	Pass
104 (Stage 4)	X	L5	3	1.94	1.6	21.6	97.5	1.5 dry	Pass
76 (Stage 3)	X	G4	5	2.01	1.61	24.7	101.0	2.0 wet	Pass
77 (Stage 3)	X	H4	5	2.01	1.62	23.6	101.5	0.5 wet	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	KG	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3&4		
					date	21/07/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Completed area in grid G4 and H4 . Facing E



Stage 4: Stockpile being pushed down as fill in grid K5 and L5. Looking NE from grid I5



Stage 4: Boulders was removed during fill placement

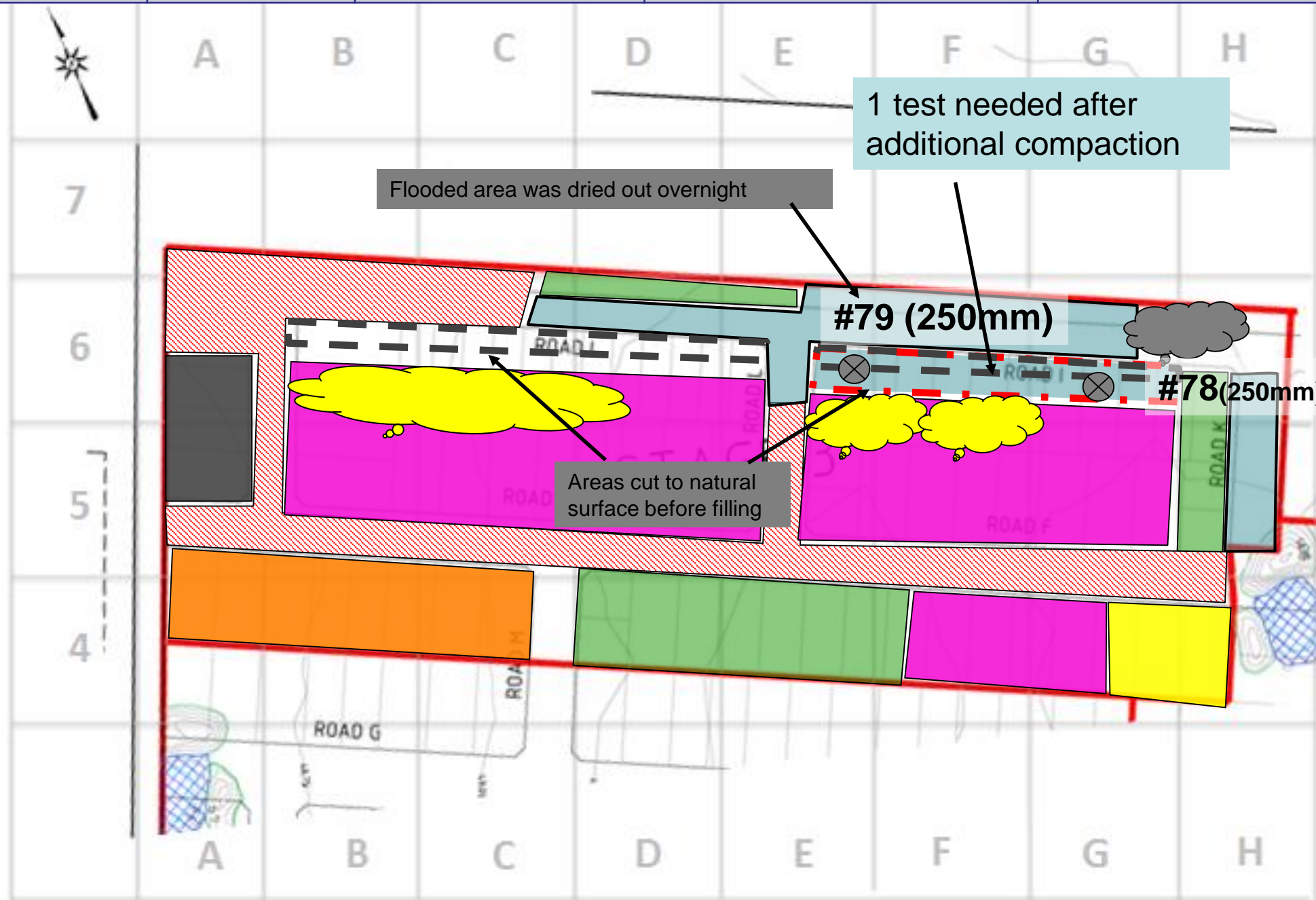


Stage 4: Completed fill placement in grid K5 and L5

revision	description	drawn	approved	date	drawn	KG		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3&4	
					date	21/07/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
28/07/2016	Thursday	07:00 AM -5:00 PM	Kong Guo	Partly cloudy, 13°C	1 x 18t Pad foot roller 1 x CAT Grader 2 x CAT Bull Dozer 1 x Water cart

Legend



	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer 5
	Subgrade Proof-rolled
	Topsoil
	Layer placed today
	Topsoil stockpile
	Stockpiled fill
	Test location

revision	description	drawn	approved	date	drawn	KG		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	28/07/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	<ul style="list-style-type: none"> • Proof-roll was conducted in the previous stockpile areas as indicated; • 100mm of the surface was striped during proof-roll on the left-hand-side; • Springing was observed in grid section F6 and G6 and re proof-roll was conducted upon rectification;
Placing/Compaction	<ul style="list-style-type: none"> • Stage 3: 250mm clay was placed on the striped natural surface in grid section G6, F6, E6
Fill/Material	<ul style="list-style-type: none"> • Fill material silty clay was won from excavation works from other stages;
Test	<ul style="list-style-type: none"> • Stage 3: 2 field density tests were conducted as indicated; • Stage 4: 1 field density re-test was conducted as indicated;
Comments/On-site Communication	<ul style="list-style-type: none"> • Stage 3: Continuation of work on 25-5-2016. <ul style="list-style-type: none"> ○ Subgrade area was clear of stockpile prior to fill placement. ○ All the fill material was moisture conditioned before placement. ○ Subgrade was compacted before new fill placement. ○ Topsoil stockpile at the top right corner was constantly being carted off. ○ All tests passed.

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
111 (Stage 4)	108	J6	3	1.96	1.68	16.8	97.5	1.5 wet	Pass
78 (Stage 3)	X	E6	1	1.96	1.62	21.4	100.5	1.0 dry	Pass
79 (Stage 3)	x	G6	1	1.98	1.65	20.4	103.0	1.5 dry	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	KG	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3&4		
					date	28/07/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Proof rolling subgrade area within previous stockpile location. Facing E



Stage 3: Dozers mixing fill material



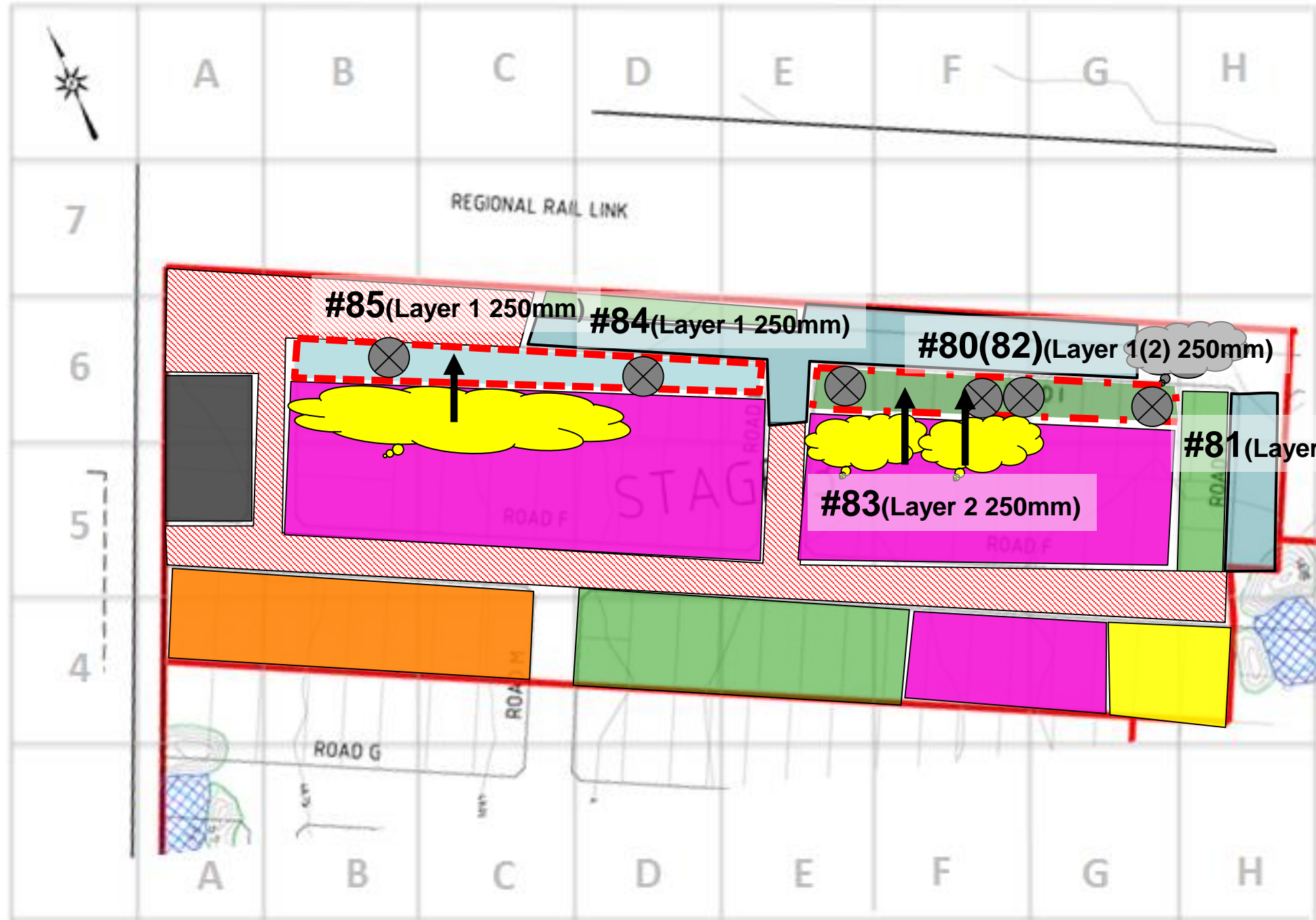
Stage 3: Moisture conditioning fill material prior to fill placement



Stage 3: Dozers cutting two steps to key in the new engineered fill platform

revision	description	drawn	approved	date	drawn	KG		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3&4	
					date	28/07/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
29/07/2016	Friday	07:00 AM -3:00 PM	Kong Guo, Sotir Stojcevski (1 hour visit)	Partly cloudy, 13°C	1 x 18t Pad foot roller 2 x CAT Bull Dozer 1 x Water cart



Legend


	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer 5
	Subgrade Proof-rolled
	Topsoil
	Layer placed today
	Topsoil stockpile
	Stockpiled fill
	Test location

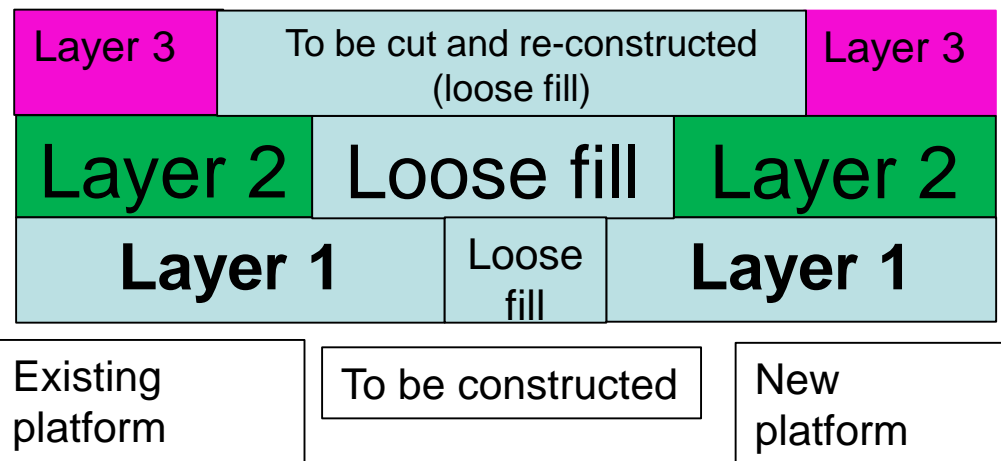
revision	description	drawn	approved	date	drawn	KG		client:	SPIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	29/07/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Subgrade Inspection	<ul style="list-style-type: none"> N/A
Placing/Compaction	<ul style="list-style-type: none"> One 250mm clay layer was placed and compacted (3-4 passes) in grid B6, C6, D6, E6, F6, G6 along the road reserve in the north of site plan;
Fill/Material	<ul style="list-style-type: none"> Fill material silty clay was won from excavation works from other stages;
Test	<ul style="list-style-type: none"> Stage 3: 6 field density tests were conducted as indicated;
Comments/On-site Communication	<ul style="list-style-type: none"> BMD advised that they are trying to construct a slope before the rain comes next week so that the road section at a lower level can collect rainfall runoff to avoid damage to the newly constructed fill platform; BMD advised that there will be a 50mm thick clay to be cut in the north of site area on the road section; Key-in of two engineered fill platforms will take place once current filling area was completed. See diagram for details. Water cart constantly moisture conditioned fill stockpile All tests passed;

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
80	X	F6	1	1.98	1.62	22.3	100.5	1.0 dry	Pass
81	X	G6	2	1.95	1.57	24.2	99.5	OMC	Pass
82	X	F6	2	1.95	1.61	20.6	99.0	0.5 wet	Pass
83	X	E6	2	1.99	1.62	20.4	102.0	OMC	Pass
84	X	D6	1	2.02	1.68	20.3	102.0	OMC	Pass
85	X	B6	1	2.02	1.67	21.4	103.0	OMC	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	KG	 coffey <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	29/07/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Dozers placing Layer 1 in grid B6, C6, D6

Stage 3: Diagram showing key-in of two engineered platforms methodologies.



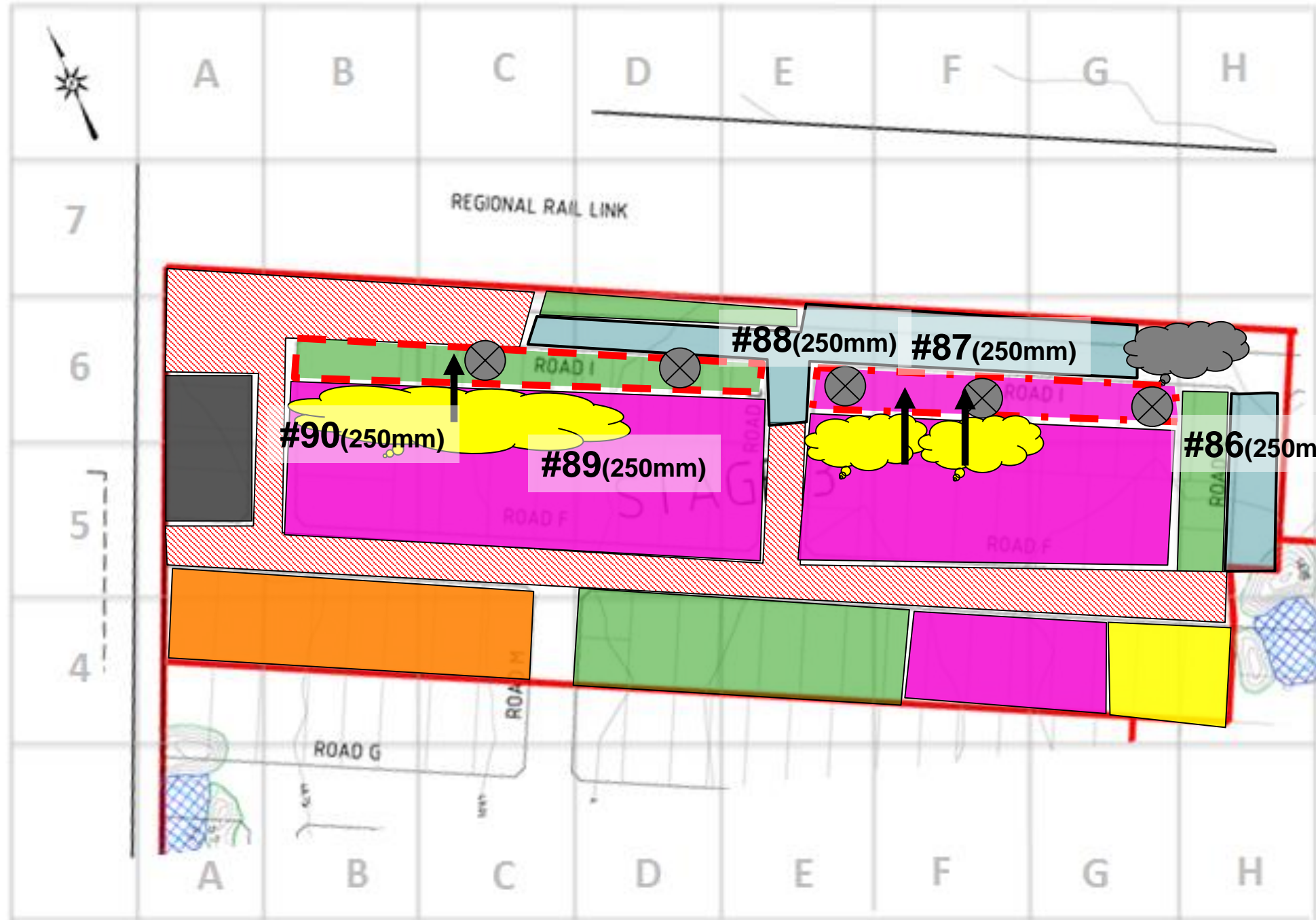
Stage 3: Pad-foot roller rolling newly placed Layer 2 in grid sections E6, F6, G6



Stage 3: Water cart constantly maintaining moisture condition of fill stockpile during fill placement

revision	description	drawn	approved	date	drawn	KG		client:	SPIIRE	
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
					date	29/07/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
30/07/2016	Saturday	07:00 AM -01:00 PM	Kong Guo	Partly cloudy, 13°C	1 x 18t Pad foot roller 1 x CAT Bull Dozer 1 x Water cart



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer 5
	Subgrade Proof-rolled
	Topsoil
	Layer placed today
	Topsoil stockpile
	Stockpiled fill
	Test location

revision	description				drawn	approved	date	drawn	KG		client:	SPIRE	
								approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	30/07/2016		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection	<ul style="list-style-type: none"> N/A
Placing/Compaction	<ul style="list-style-type: none"> One 250mm clay layer was placed and compacted(3-4 passes) in grid B6, C6, D6, E6, F6, G6 along the road reserve in the north of site plan;
Fill/Material	<ul style="list-style-type: none"> Fill material silty clay was won from excavation works from other stages;
Test	<ul style="list-style-type: none"> 5 field density tests were conducted as indicated;
Comments/On-site Communication	<ul style="list-style-type: none"> BMD advised that they are trying to construct a slope along the footpath in the northern site area before the rain comes next week so that the road section at a lower level can collect rainfall runoff to avoid damage to the newly constructed fill platform; BMD advised that there will be a 50mm thick clay to be cut in the north of site area on the road section; Key-in of two engineered fill platform will take place once current filling area was completed. See diagram for details. Water cart constantly moisture conditioned fill stockpile and filling area Since the moisture condition of the fill material was very well maintained, it took less compactive effort (less rolling) to achieve the specs; All tests passed

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
86	X	G6	3	2.03	1.65	22.9	102.5	OMC	Pass
87	X	F6	3	2.06	1.70	21.0	106.0	2.0 DRY	Pass
88	X	E6	3	1.99	1.61	21.0	99.5	OMC	Pass
89	X	D6	2	1.98	1.59	24.3	101.0	0.5 wet	Pass
90	X	C6	2	2.02	1.58	27.6	104.0	0.5 wet	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	KG	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	30/07/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Stage 3: Moisture conditioning fill stockpile while being pushed down



Stage 3: Pat-foot roller compacting newly placed layer 3 in grid sections E6, F6, G6



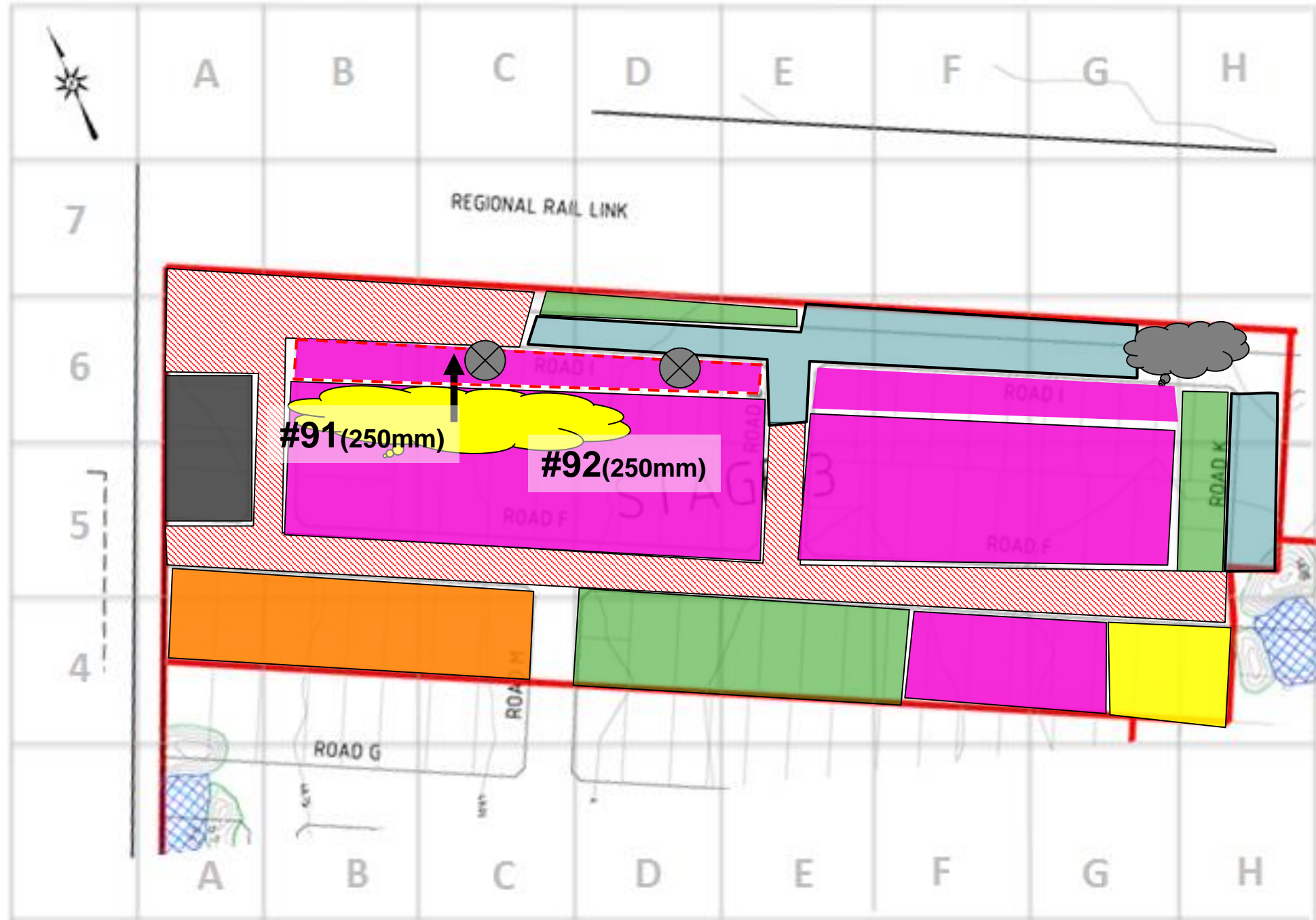
Stage 3: Completed Layer 3 placement in grid section E6,F6 & G6. Facing NW



Stage 3: Bull Dozer pushing fill stockpile in grid sections B6, C6 & D6 as Layer 2

revision	description				drawn	approved	date	drawn	KG		client:	SPIIRE	
								approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	30/07/2016		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
16/08/2016	Tuesday	07:15 AM -03:00 PM	Igor Ilkov	Sunny, 17°C	1 x 18t Pad foot roller 1 x CAT Bull Dozer 1 x Water cart



Legend

	Roads
	Layer 1
	Layer 2
	Layer 3
	Layer 4
	Layer 5
	Subgrade Proof-rolled
	Topsoil
	Layer placed today
	Topsoil stockpile
	Stockpiled fill
	Test location

revision	description				drawn	approved	date	drawn	I.I.	 A TETRA TECH COMPANY	client:	SPIRE	
								approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	16/08/2016		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection

- N/A

Placing/Compaction

- Layer 3 (250mm clay layer) was placed and compacted in between grid B6 to E6 in Stage 3 bulk earthworks.
- Existing layer ripped, conditioned and re-compacted in grid N2 and O2 in Stage 4 bulk earthworks.

Fill/Material

- Site won fill material form surrounding stages within Little Green Estate.

Test


- 4 field density tests were conducted as indicated;

Comments/On-site Communication

- All tests passed.

Stage 3									
Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
91	X	C6	3	1.992	1.604	24.2	98.5	OMC	Pass
92	X	D6	3	2.044	1.656	23.2	102.5	OMC	Pass
Stage 4									
112	X	N2	5	2.012	1.590	26.6	101.5	OMC	Pass
113	X	O2	5	1.995	1.602	24.6	100.5	1.5 Wet	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	I.I.	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	16/08/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



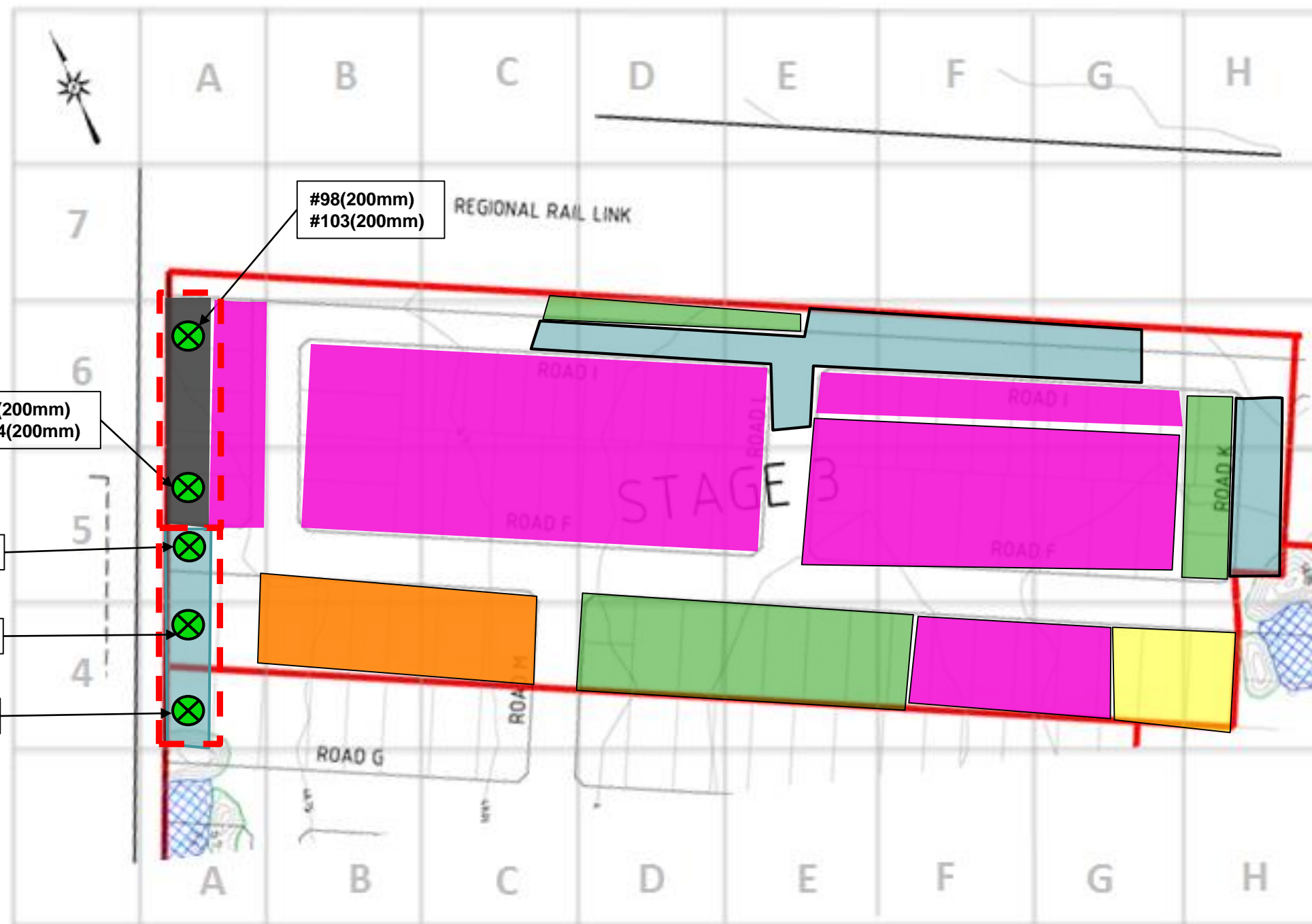
Looking North-West from Grid D6 (Stage 3): Testing of Layer 3 placed today



Looking South-East from Grid N4 (Stage 4): Reworking of existing Layer 5

revision	description	drawn	approved	date	drawn	I.I.		client:	SPIRE		
					approved	SS		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	16/08/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
26/08/2016	Friday	07:15 AM -16:45 PM 13:30 PM – 3:30 PM	Will Harding Brenton Petracca	Sunny, 17°C	2 x 18t Pad foot roller 1 x CAT Bull Dozer 2 x Tip Truck 1 x Grader

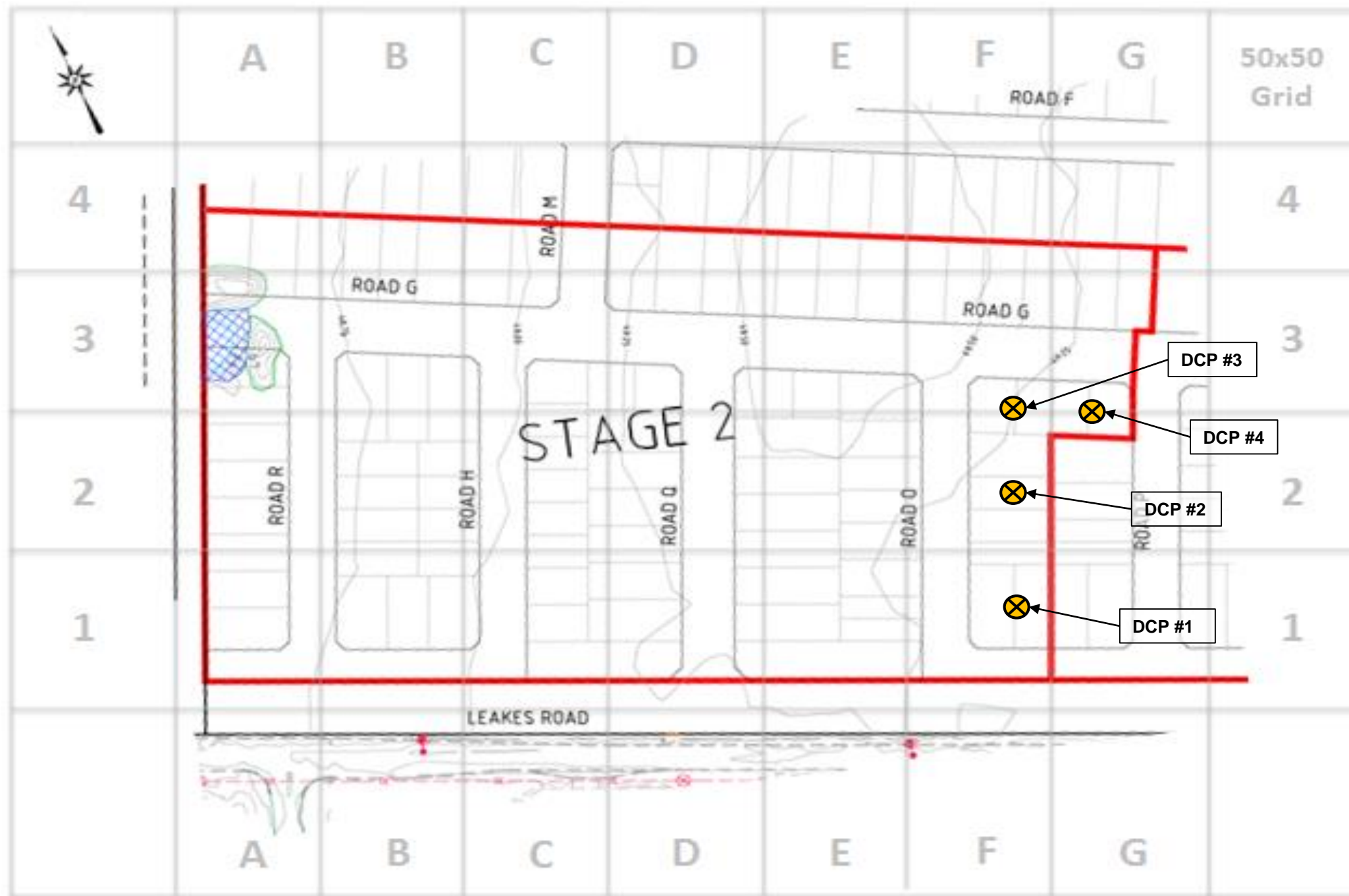


Legend

	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		

revision	description				drawn	W.H	 A TETRA TECH COMPANY	client:	SPIRE
					drawn	S.P		project:	LITTLE GREEN ESTATE- STAGE 3
					date	26/08/2016		title:	DAILY RECORD – LEVEL 1 GITA
					scale	NTS		project no:	GEOTABTF09878AA
					original size	A3		figure no:	

Date	Day	Time on Site	Personnel	Weather	Mobile plant
26/08/2016	Friday	07:15 AM -16:45 PM 13:30 PM – 3:30 PM	Will Harding Brenton Petracca	Sunny, 17°C	1 x 18t Pad foot roller 1 x CAT Bull Dozer 2 x Tip Truck 1 x Grader



Legend

	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		
	Dynamic Cone Penetrometer test location (approximate)		

revision	description				drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE	
								approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 2	
								date	26/08/2016		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection

- N/A

Placing/Compaction

- Stage 3 Bulk Earthworks:
 - Layers 3 and 4 completed and tested in grid sections A6 and A5
 - Layer 1 completed in grid sections A5 and A4
- Stage 4 Bulk Earthworks:
 - Retests performed on layer 9 in grid section N2. Layer 10 then successfully placed and tested afterwards.
 - Retests also undertaken in grid sections O5 and O3 on their 5th layers.
 - First layer completed in grid sections J6 and I6

Fill/Material

- Material won from on site locations


Test

- 7 field density tests completed in stage 3
- 6 field density tests completed in stage 4
- 4 DCP tests were performed on stage 2

Comments/On-site Communication


- Works have begun around grid section J1 and I1 to dig out the area affected by the stockpiles.
- All Tests Passed
- Brenton came on site to perform DCP testing on stage 2.

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	W.H	 coffey <small>A TETRA TECH COMPANY</small>	client:	SPIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3 AND 4		
					date	26/08/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Stage 3									
Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
98	X	A6	Layer 3	1.92	1.57	22.1	99.5	0.5 Dry	Pass
99	X	A5	Layer 3	1.90	1.53	24.1	95.0	0.5 Dry	Pass
100	X	A5	Layer 1	1.89	1.53	23.9	97.5	2.0 Wet	Pass
101	X	A4 North	Layer 1	1.97	1.62	21.8	103.0	2.0 Dry	Pass
102	X	A4 South	Layer 1	1.90	1.57	20.6	97.5	0.5 Dry	Pass
103	X	A6	Layer 4	1.91	1.52	25.6	95.0	OMC	Pass
104	X	A5 North	Layer 4	1.99	1.71	16.4	102.0	2.0 Dry	Pass
Stage 4									
142	137	O3 East	Layer 5	1.98	1.60	23.9	106.0	1.0 Dry	Pass
143	139	O5 East	Layer 5	1.93	1.62	19.8	101.0	2.5 Dry	Pass
144	136	N2	Layer 9	2.06	1.72	19.8	104.5	2.5 Dry	Pass
145	X	N2	Layer 10	1.99	1.62	23.4	105.5	1.0 Dry	Pass
146	X	J1	Layer 1	1.98	1.62	22.3	104.0	2.5 Dry	Pass
147	X	I1	Layer 1	1.97	1.64	20.6	101.0	2.0 Dry	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3 AND 4		
					date	26/08/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



**Grid section O2 (Stage 4) Looking North-East:
Reworking and conditioning of eastern side of grid section O3-O5**




Grid Section N2 (Stage 4) Looking West: Layer Reworking



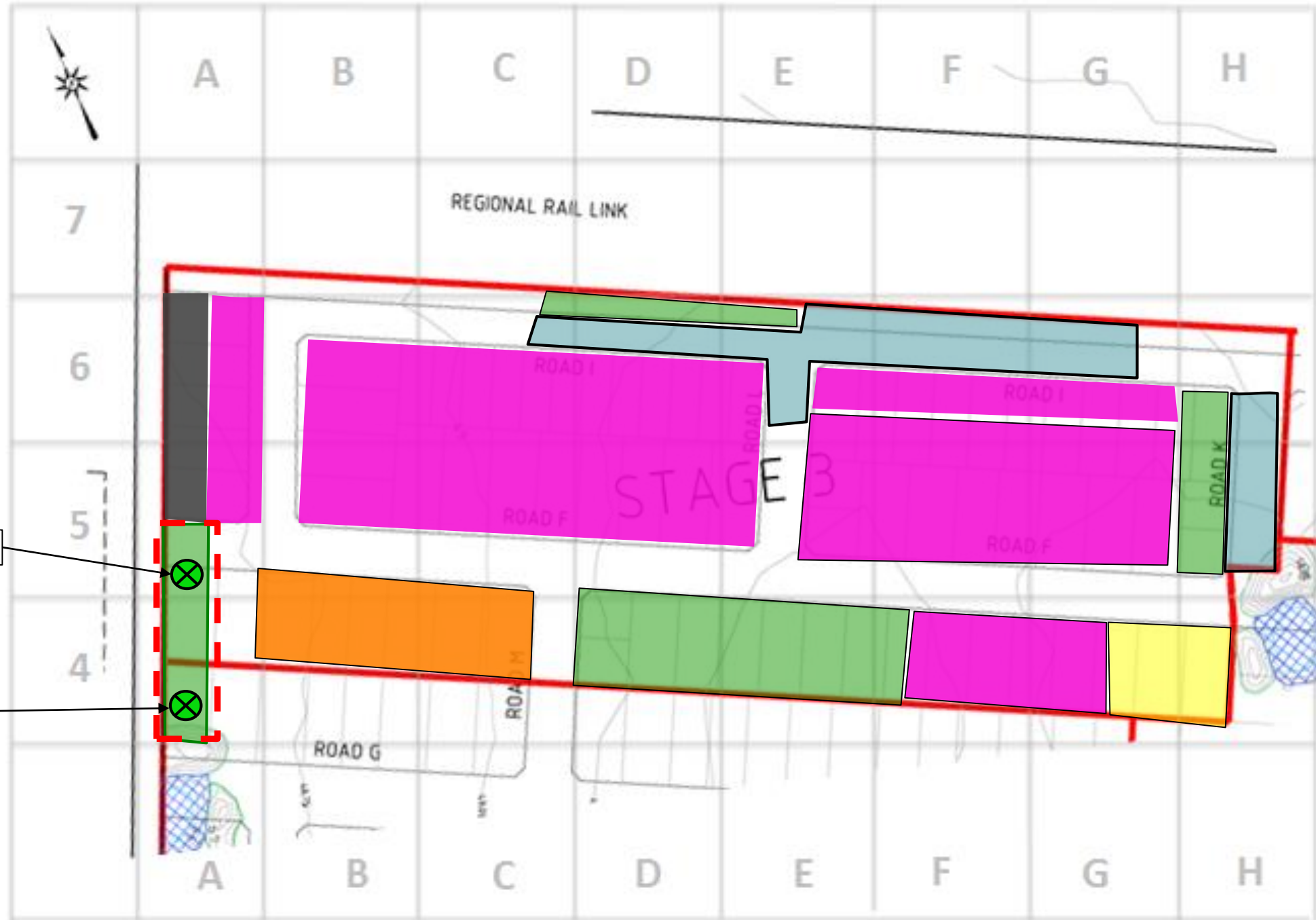
Grid section A4 (Stage 3) Looking North



**Grid section J6 (Stage 4) Looking North-West:
Dozer placing first layer**

revision	description	drawn	approved	date	drawn	W.H		client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3 AND 4		
					date	26/08/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
29/08/2016	Monday	07:45 AM -16:00 PM	Will Harding	Sunny, 17°C	1 x 18t Pad foot roller 1 x CAT Bull Dozer 1 x Tip Truck



Legend

	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		

#105(200mm)

#106(200mm)

revision	description	drawn	approved	date	drawn	W.H	client:	SPIRE
					approved	S.P	project:	LITTLE GREEN ESTATE- STAGE 3
					date	29/08/2016	title:	DAILY RECORD – LEVEL 1 GITA
					scale	NTS	project no:	GEOTABTF09878AA figure no:
					original size	A3		



Subgrade Inspection	<ul style="list-style-type: none"> N/A
Placing/Compaction	<ul style="list-style-type: none"> <u>Stage 3 Bulk Earthworks:</u> <ul style="list-style-type: none"> Second layer completed in rid section A5 and A4. <u>Stage 4 Bulk Earthworks:</u> <ul style="list-style-type: none"> Two layers have been successfully placed. Grid sections J6 and I6. Existing layer 1 tested on K6
Fill/Material	<ul style="list-style-type: none"> Material won from on site locations
Test	<ul style="list-style-type: none"> Two field density tests have been completed on stage 3 Two field density tests have been completed on stage 4
Comments/On-site Communication	<ul style="list-style-type: none"> More of the area, where fill was placed and required reworking, has been cut away and two layers of engineered fill have been successfully placed and tested. The batter on stage 3 has had another layer completed and tested. Works continues on stage 4 in sections O3-O5, East and West sides, as well as grid section N2 North. All tests passed except two. The field density test 106 on stage 3, failed on moisture and field density test 148 on stage 4, also on moisture.

Stage 3									
Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
105	X	A5	Layer 2	1.93	1.56	24.0	100.5	2.0 Dry	Pass
106	X	A4	Layer 2	1.90	1.56	22.2	101.0	5.0 Dry	Fail
Stage 4									
148	X	K6	Layer 1	1.88	1.55	21.3	103.5	5.0 Dry	Fail
149	X	I6	Layer 2	1.98	1.65	19.8	103.0	3.0 Dry	Pass
150	X	J6 East	Layer 3	1.95	1.65	18.3	98.0	2.5 Dry	Pass
151	X	J6 West	Layer 3	2.03	1.73	17.3	101.0	0.5 Dry	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3 AND 4		
					date	29/08/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



Grid section I5 Looking North: Tip truck dumping fill onto grid ref I6 for layer 2 placement.



Grid Section J5 Looking North: Layer 3 placement in grid ref I6



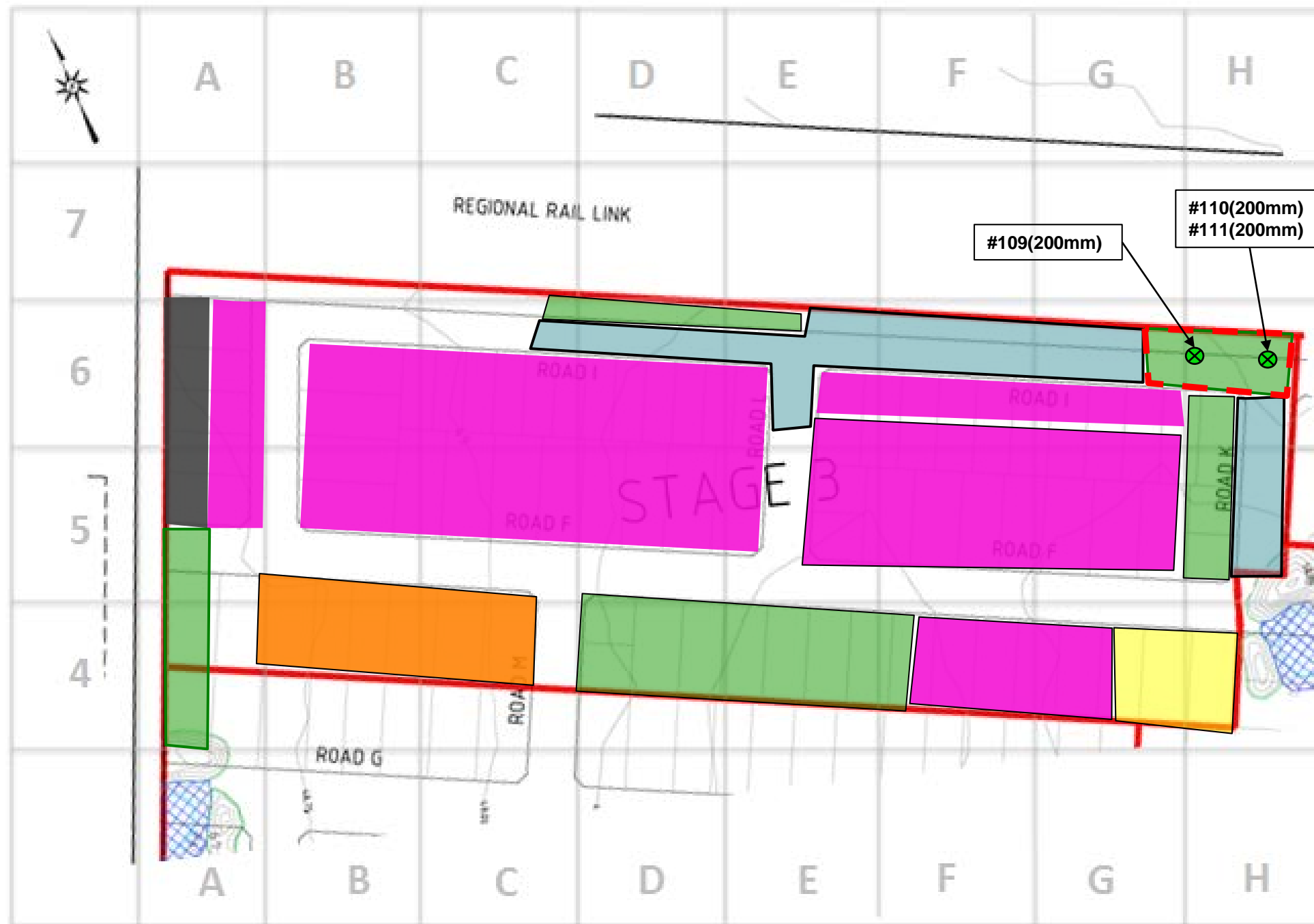
Grid section I6 Looking North-West: Stockpile on top of compromised fill, partially removed and reworked.



Grid section J5 Looking North-West: Backside of stockpile

revision	description	drawn	approved	date	drawn	W.H		client:	SPIIRE	
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 4	
					date	29/08/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
01/09/2016	Thursday	07:15 AM – 1:30 PM	Will Harding	Sunny, 17°C	1 x 18t Pad foot roller 1 x CAT Bull Dozer 1 x Tip Truck 1 x Water-Cart



Legend

	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		

revision	description				drawn	W.H	 A TETRA TECH COMPANY	client:	SPIRE
					drawn	S.P		project:	LITTLE GREEN ESTATE- STAGE 3
					approved	01/09/2016		title:	DAILY RECORD – LEVEL 1 GITA
					date	NTS		project no:	GEOTABTF09878AA
					original size	A3		figure no:	

Subgrade Inspection

- N/A

Placing/Compaction

- Stage 3 Bulk Earthworks:
 - Layer 2 completed on grid ref H6
- Stage 4 Bulk Earthworks:
 - Layer 7 completed in grid sections I6 and J6 as well as layer 3 completed on grid section K6.
 - Retest of layer 4 completed on grid ref J6. A test pit was cut in order to perform a retest of the underlying layer. This was refilled and compacted properly.

Fill/Material

- Material won from on site locations

Test

- 4 Field density tests were completed on stage 4.
- 2 Field density tests completed on stage 2

Comments/On-site Communication

- Test #160 for layer 4 in grid reference K6 failed therefore a retest was performed before layer 2 was completed.
- Some oversize found in grid section I6, contractor advised to remove before continuing works. This was completed promptly.

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3 and 4		
					date	01/09/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Stage 3									
Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
109	X	H6 West	Layer 2	1.99	1.59	25.6	103.5	1.5 Dry	Pass
110	X	H6 East	Layer 2	1.90	1.53	24.0	98.0	0.5 Dry	Pass
111	108	H6 East	Layer 1	1.94	1.57	23.5	100.0	0.5 Dry	Pass
Stage 4									
Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
168	X	I6	Layer 7	2.06	1.79	14.8	107.0	4.0 Dry	Fail
169	160	J6	Layer 4	2.00	1.79	11.9	105.0	OMC	Pass
170	X	J6	Layer 7	1.98	1.61	23.4	98.5	0.5 Wet	Pass
171	X	K6	Layer 3	1.96	1.57	24.6	99.5	1.5 Dry	Pass

Specification: HILF \geq 95% of standard compaction / Moisture Variation: + or - 3% OMC


revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3 and 4		
					date	01/09/2016		title:	DAILY RECORD - LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					




Photo 1 – Looking North-West: Padfoot on H6 rolling Layer 2



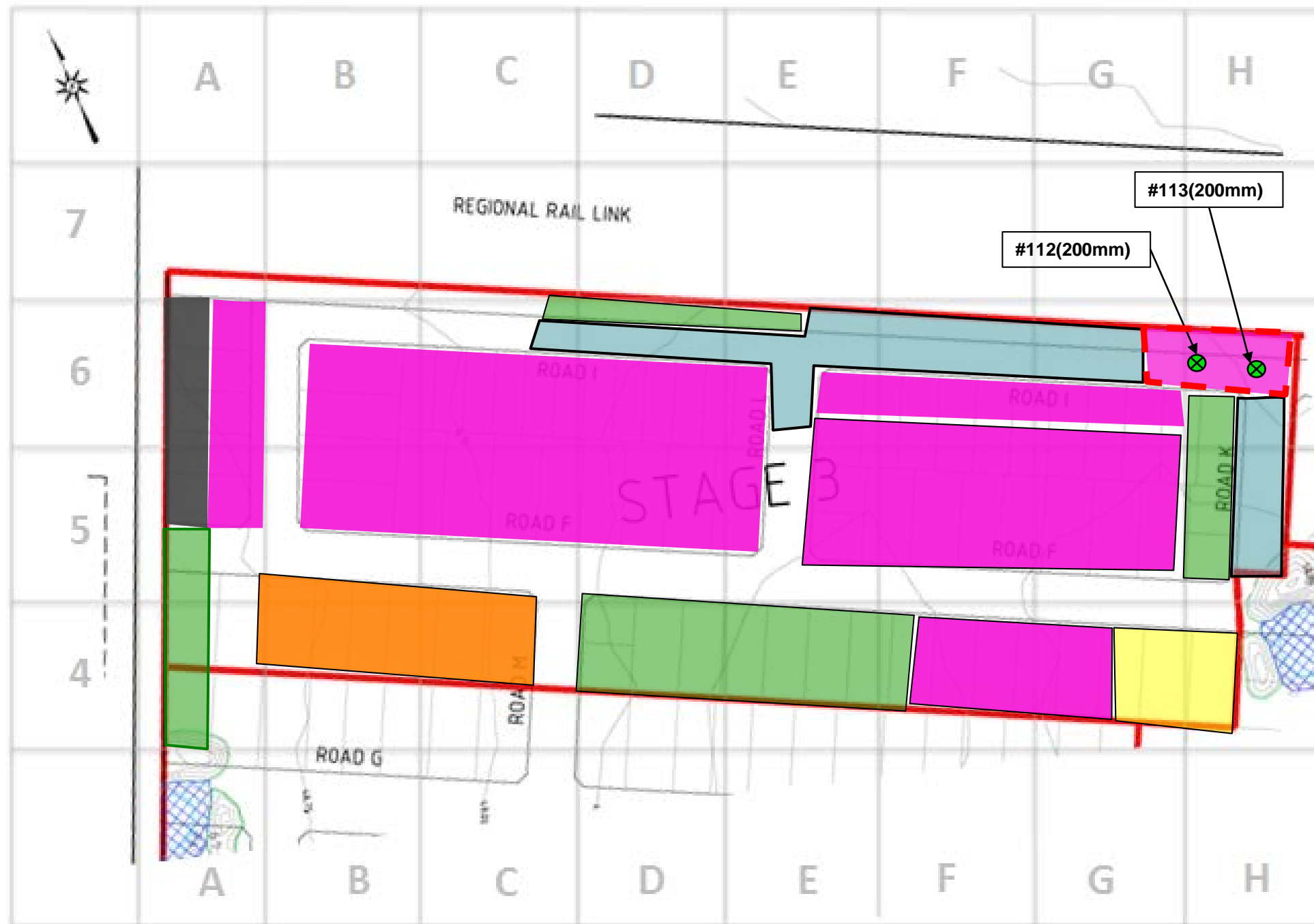
Photo 2 – Looking East: Grader on K6



Photo 3 – Looking North: Dozer on H6 digging test pit for retest

revision	description	drawn	approved	date	drawn	W.H	 coffey <small>A TETRA TECH COMPANY</small>	client:	SPIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3 and 4		
					date	01/09/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
06/09/16	Tuesday	8:00 AM – 4:30PM	Will Harding	Sunny, 17°C	1 x 18t Pad foot roller 1 x CAT Bull Dozer 1 x Tip Truck 1 x Water-Cart



Legend


	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		

revision	description			drawn	approved	date	drawn	W.H	 A TETRA TECH COMPANY	client:	SPIRE		
							approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3		
							date	06/09/2016		title:	DAILY RECORD – LEVEL 1 GITA		
							scale	NTS		project no:	GEOTABTF09878AA	figure no:	
							original size	A3					

Subgrade Inspection	<ul style="list-style-type: none"> N/A
Placing/Compaction	<ul style="list-style-type: none"> Stage 3 Bulk Earthworks: <ul style="list-style-type: none"> Layer 3 was completed on grid section H6 Stage 4 Bulk Earthworks: <ul style="list-style-type: none"> Layer 8 completed in grid sections I6 and J6 as well as layer 4 completed on grid section K6. Retest of layer 7 completed on grid ref I6. After completion of the test layer 8 was successfully placed.
Fill/Material	<ul style="list-style-type: none"> Material won from on site locations
Test	<ul style="list-style-type: none"> 4 Field density tests were completed on stage 4. 2 Field density tests completed on stage 3
Comments/On-site Communication	<ul style="list-style-type: none"> Test #164 for layer 7 in grid reference I6 failed therefore a retest was performed before layer 8 was completed. Some oversize found in grid section I6, contractor advised to remove before continuing works. This was completed promptly.

Stage 3									
Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
112	X	H6 West	Layer 3	1.90	1.52	24.5	100.5	1.0 Wet	Pass
113	X	H6 East	Layer 3	1.96	1.69	15.6	101.0	1.5 Wet	Pass
Stage 4									
Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
172	168	I6	Layer 7	2.06	1.71	20.6	105.0	2.0 Dry	Pass
173	X	K6	Layer 4	2.00	1.61	24.3	101.5	1.5 Dry	Pass
174	X	J6	Layer 8	2.01	1.71	17.2	103.5	4.0 Dry	Fail
175	X	I6	Layer 8	1.99	1.69	17.9	102.5	3.0 Dry	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3 and 4		
					date	06/09/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



**Photo 1 – Looking South-East from H6:
Completed layer 8 and 4 on sections I6-J6 and K6.**



**Photo 2 – Looking South-East From H6:
Layer 3 on H6 test #112 in progress.**



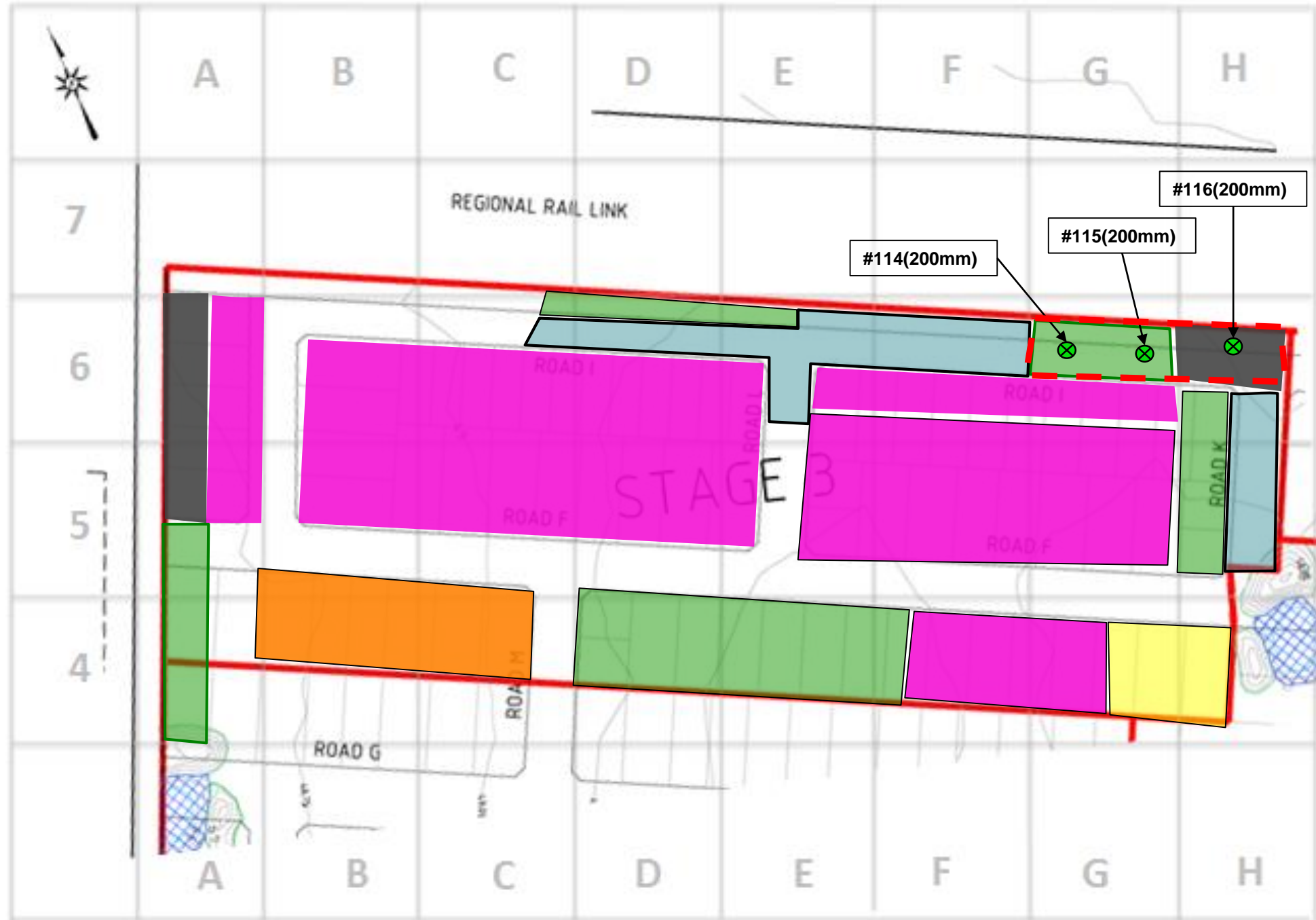
**Photo 3 - Looking North from K5:
Layer 8 placement on I6-J6**



**Photo 4 – Looking East from I5:
Completed layer 4 placement on K6**

revision	description	drawn	approved	date	drawn	W.H	 coffey <small>A TETRA TECH COMPANY</small>	client:	SPIIRE	
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3 and 4	
					date	06/09/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
07/09/16	Wednesday	8:00 AM – 3:00PM	Will Harding	Sunny, 17°C	1 x 18t Pad foot roller 1 x CAT Bull Dozer 1 x Tip Truck 1 x Water-Cart



Legend


	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		

revision	description			drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIRE	
							approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3	
							date	07/09/2016		title:	DAILY RECORD – LEVEL 1 GITA	
							scale	NTS		project no:	GEOTABTF09878AA	figure no:
							original size	A3				

Subgrade Inspection	<ul style="list-style-type: none"> N/A
Placing/Compaction	<ul style="list-style-type: none"> <u>Stage 2 Bulk Earthworks:</u> <ul style="list-style-type: none"> Layer 1 was completed on the indicated area in grid sections A1 – A3. <u>Stage 3 Bulk Earthworks:</u> <ul style="list-style-type: none"> Layer 3 was completed on grid section H6
Fill/Material	<ul style="list-style-type: none"> Material won from on site locations
Test	<ul style="list-style-type: none"> 3 Field density tests completed on stage 3
Comments/On-site Communication	<ul style="list-style-type: none"> The area in stage 2 being filled is the shoulder off of the edge of the property line, placed as a buffer between the property line and the batter. The batter being used in place of the deleted retaining wall. This is similar to the works done in stage 3 along grid column A. Some oversize found in grid section G6, contractor removed before continuing works without it being pointed out.

Stage 3									
Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
114	X	G6 West	Layer 2	1.96	1.68	16.3	98.0	2.5 Dry	Pass
115	X	G6 East	Layer 2	1.94	1.58	22.7	103.0	2.5 Dry	Pass
116	X	H6	Layer 4	1.96	1.67	17.8	101.5	2.5 Dry	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 2 and 3		
					date	07/09/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



**Photo 1 – Looking South-East from H6:
Wetting of layer 4 in H6 and layer 2 in G6**



**Photo 2 – Looking West From G6:
Oversize which was removed from grid sections G6**



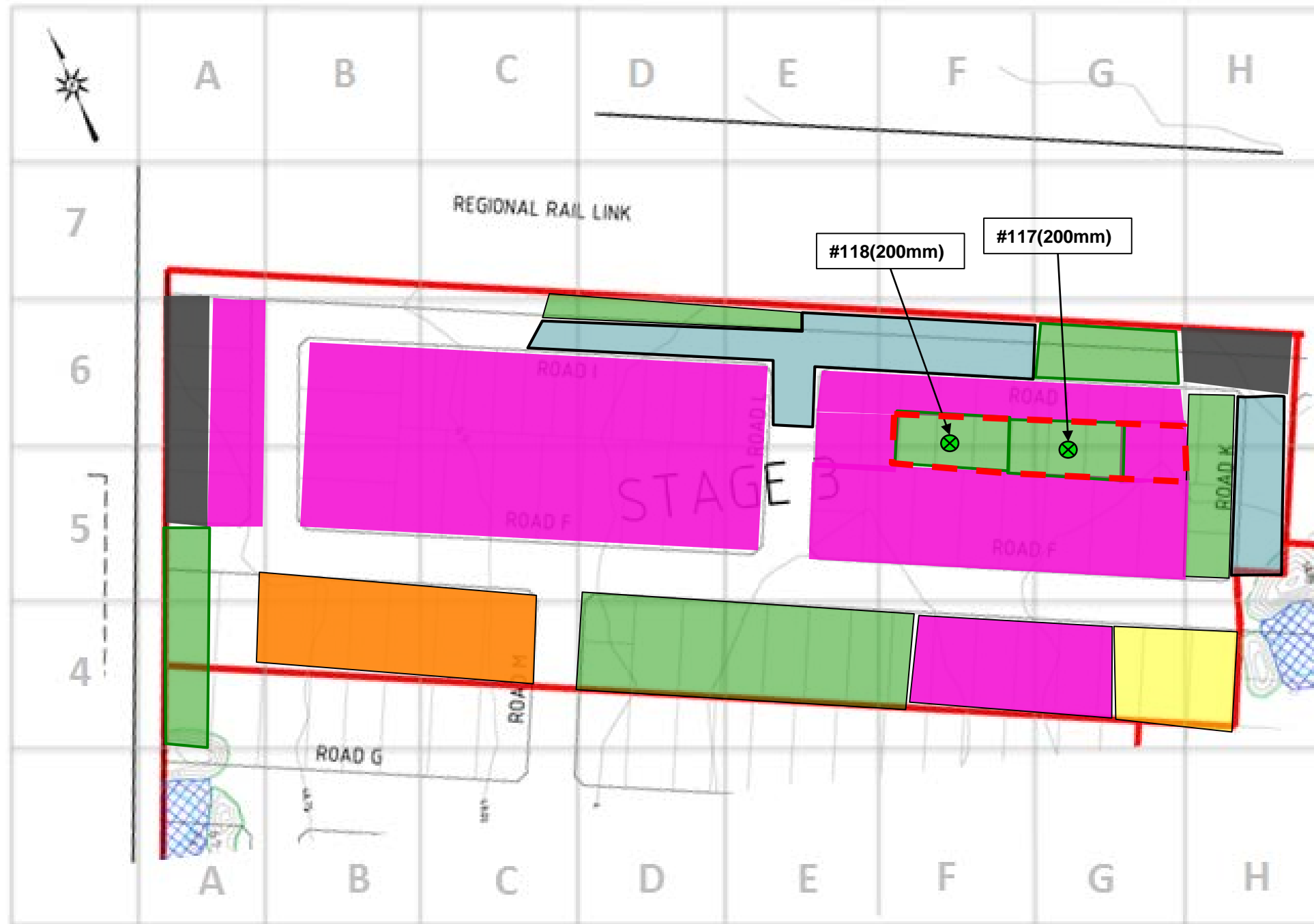
**Photo 3 - Looking South-East from G6:
Layer 4 Completed**



**Photo 4 – Looking North-East from H5:
Water-Cart wetting up the soil for layer 4 on H6**

revision	description	drawn	approved	date	drawn	W.H		client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 2 and 3		
					date	07/09/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
27/09/16	Tuesday	7:30 AM – 3:45 PM	Will Harding	Sunny, 14°C	1 x CAT Bull Dozer



Legend

	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		

revision	description				drawn	approved	date	drawn	W.H	 A TETRA TECH COMPANY	client:	SPIRE	
								approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	27/09/2016		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection

- N/A

Placing/Compaction

- Stage 3 Bulk Earthworks:
 - Layer 2 placed in grid sections F6 and G5 over lots 624-628.

Fill/Material

- Material won from on site locations

Test

- N/A

Comments/On-site Communication

- Previously discussed compromised area encompassed inside of lots 624 – 628. Stockpile was left there while surrounding areas were placed and as a result the area became naturally compacted. As this does not suit the requirements or standards of engineered, level 1, fill it must be reworked.
- Fill was removed until we hit a solid layer, this ended up being layer 1 which was previously passed in test numbers #13 and #16.
- Layer was reworked, reconditioned and recompacted before testing.

Stage 3

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
117	X	G5 North-West	2	1.87	1.49	25.6	99.5	3.0 Dry	Pass
118	X	F6 South	2	1.90	1.55	22.6	105.5	5.0 Dry	Fail

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	27/09/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



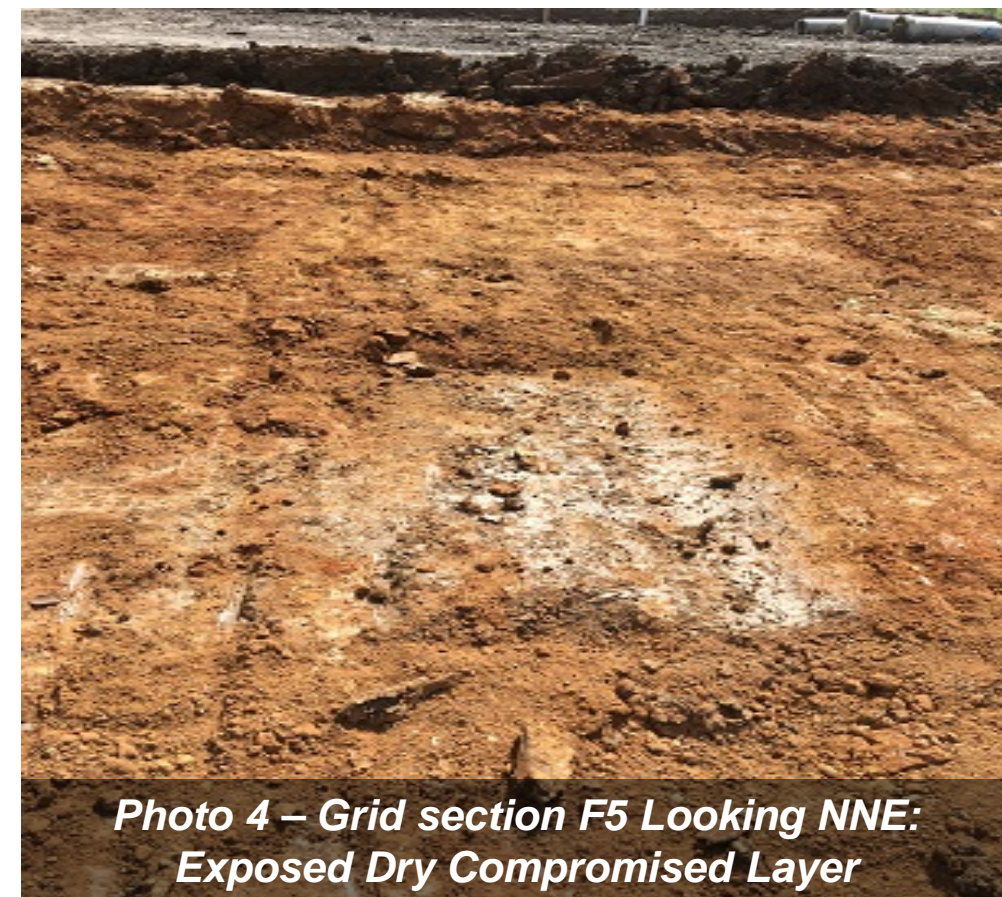
**Photo 1 – Grid section F5 Looking North:
Compromised area being prepared for reconditioning**



**Photo 2 – Grid section G4 Looking East:
Dozer working on compromised layer**



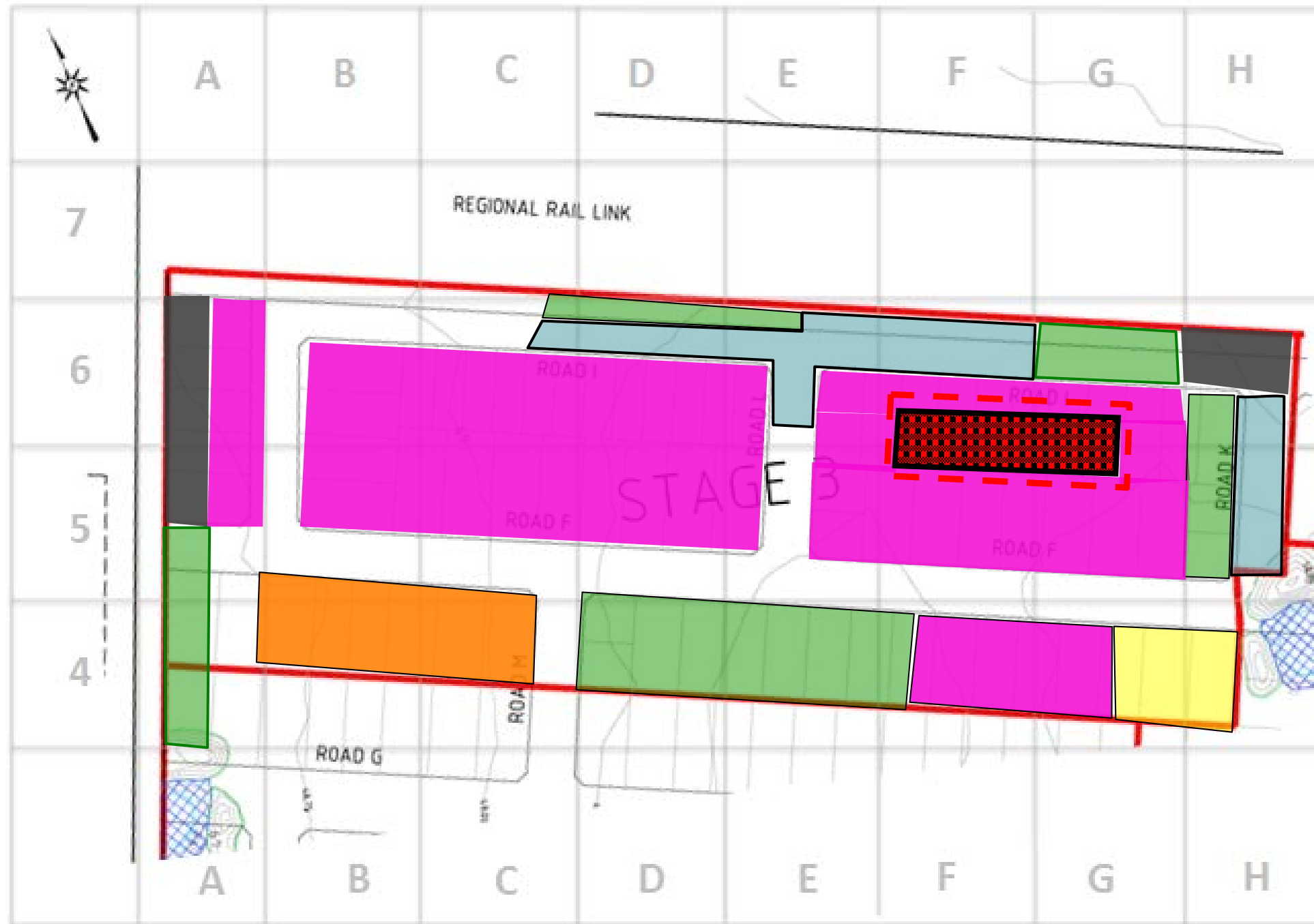
**Photo 3 – Grid section F5 Looking North-West:
Exposed compromised layer looking very dry**



**Photo 4 – Grid section F5 Looking NNE:
Exposed Dry Compromised Layer**

revision	description	drawn	approved	date	drawn	W.H		client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	27/09/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
28/09/16	Wednesday	7:30 AM – 1:30 PM 12:30PM – 1:30PM	Will Harding Shaun Price	Sunny, 14°C	1 x Grader



Legend

	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		Uncontrolled Fill
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		


revision	description	drawn	approved	date	drawn	W.H	client:	SPIRE
					approved	S.P	project:	LITTLE GREEN ESTATE- STAGE 3
					date	28/09/2016	title:	DAILY RECORD – LEVEL 1 GITA
					scale	NTS	project no:	GEOTABTF09878AA figure no:
					original size	A3		



Subgrade Inspection	<ul style="list-style-type: none"> N/A
Placing/Compaction	<ul style="list-style-type: none"> <u>Stage 3 Bulk Earthworks:</u> <ul style="list-style-type: none"> It was discussed that the area, which was tested, is under too much doubt as to the integrity of the engineered fill. The decision is to excavate down to subgrade in the narrow corridor of compromised fill and proof-roll. Then we will begin again.
Fill/Material	<ul style="list-style-type: none"> Material won from on site locations
Test	<ul style="list-style-type: none"> N/A
Comments/On-site Communication	<ul style="list-style-type: none"> Previously discussed compromised area encompassed inside of lots 624 – 628. The area, which was tested, is under too much doubt as to the integrity of the engineered fill. The decision is to excavate down to subgrade in the narrow corridor of compromised fill and proof-roll. Then we will begin again. The area has been filled as to avoid damage and filling of water from the coming rains. Works will most likely begin again on Monday when we reevaluate.

Stage 3									
Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	28/09/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					




**Photo 1 – Grid section F5 Looking North:
Compromised area with failed compaction peeling off**



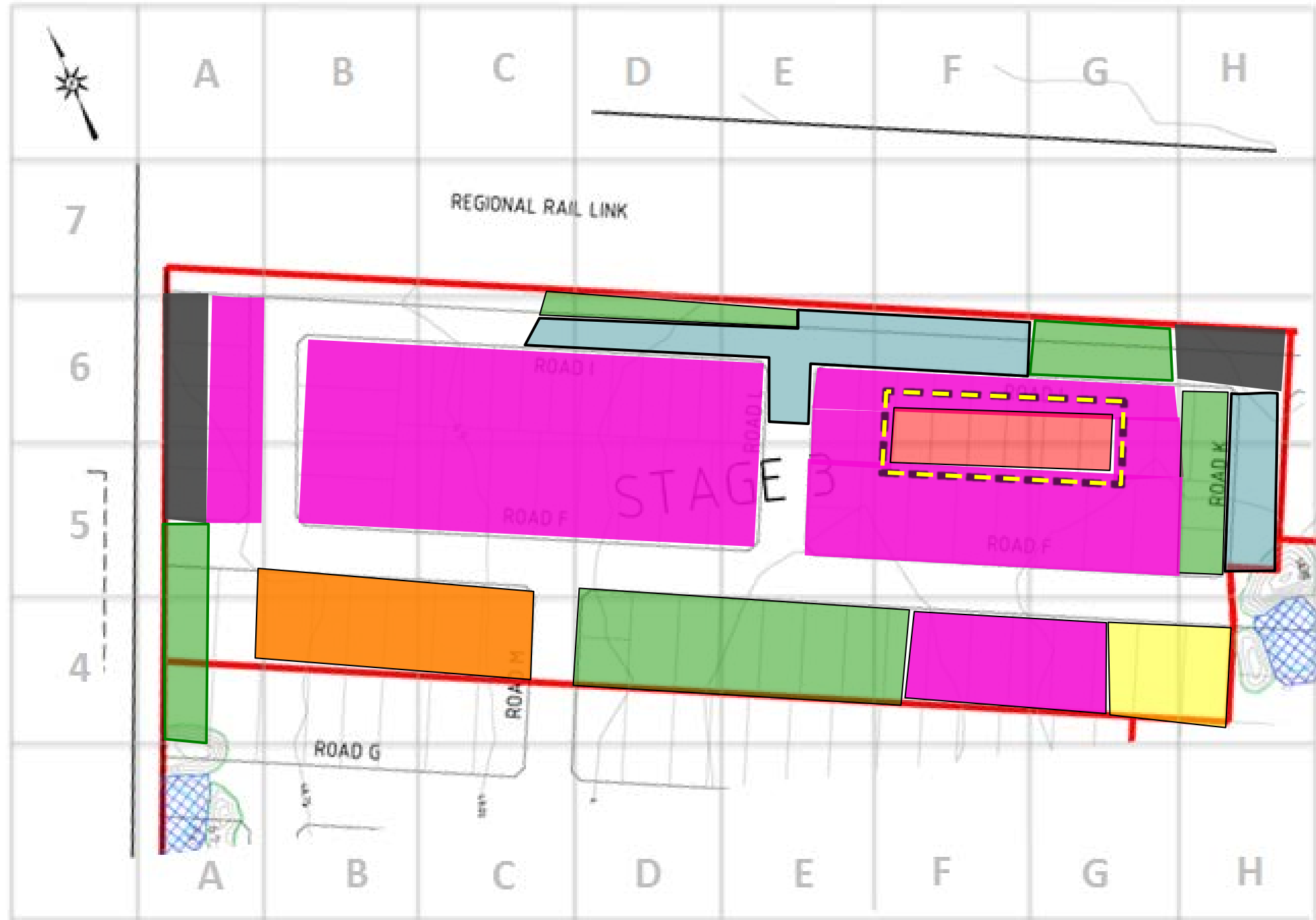
**Photo 2 – Grid section F5 Looking North:
Grader beginning to rip area for inspection**



**Photo 1 – Grid section F5 Looking North:
Layers exposed ready for evaluation.**

revision	description	drawn	approved	date		drawn	W.H	 A TETRA TECH COMPANY	client:	SPIIRE		
						approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3		
						date	28/09/2016		title:	DAILY RECORD – LEVEL 1 GITA		
						scale	NTS		project no:	GEOTABTF09878AA	figure no:	
						original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
05/10/16	Wednesday	7:30 AM – 3:30 PM	Will Harding	Windy, 15°C	1 x Excavator 1 x Grader



Legend

	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		Uncontrolled Fill
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		

revision	description	drawn	approved	date	drawn	W.H	client:	SPIRE
					approved	S.P	project:	LITTLE GREEN ESTATE- STAGE 3
					date	05/10/2016	title:	DAILY RECORD – LEVEL 1 GITA
					scale	NTS	project no:	GEOTABTF09878AA
					original size	A3	figure no:	



Subgrade Inspection

- N/A

Placing/Compaction

- Stage 3 Bulk Earthworks:
 - As discussed, the compromised area in stage 3 was excavated down to subgrade level and then proof rolled.

Fill/Material

- Material won from on site locations

Test

- N/A


Comments/On-site Communication

- N/A

Stage 3

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
N/A	___X___	___X___	___X___	___X___	___X___	___X___	___X___	___X___	___X___
N/A	___X___	___X___	___X___	___X___	___X___	___X___	___X___	___X___	___X___

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	05/10/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					




**Photo 1 – Grid Location G5 South Looking West:
Excavated Layer Ready for Proof-Rolling**



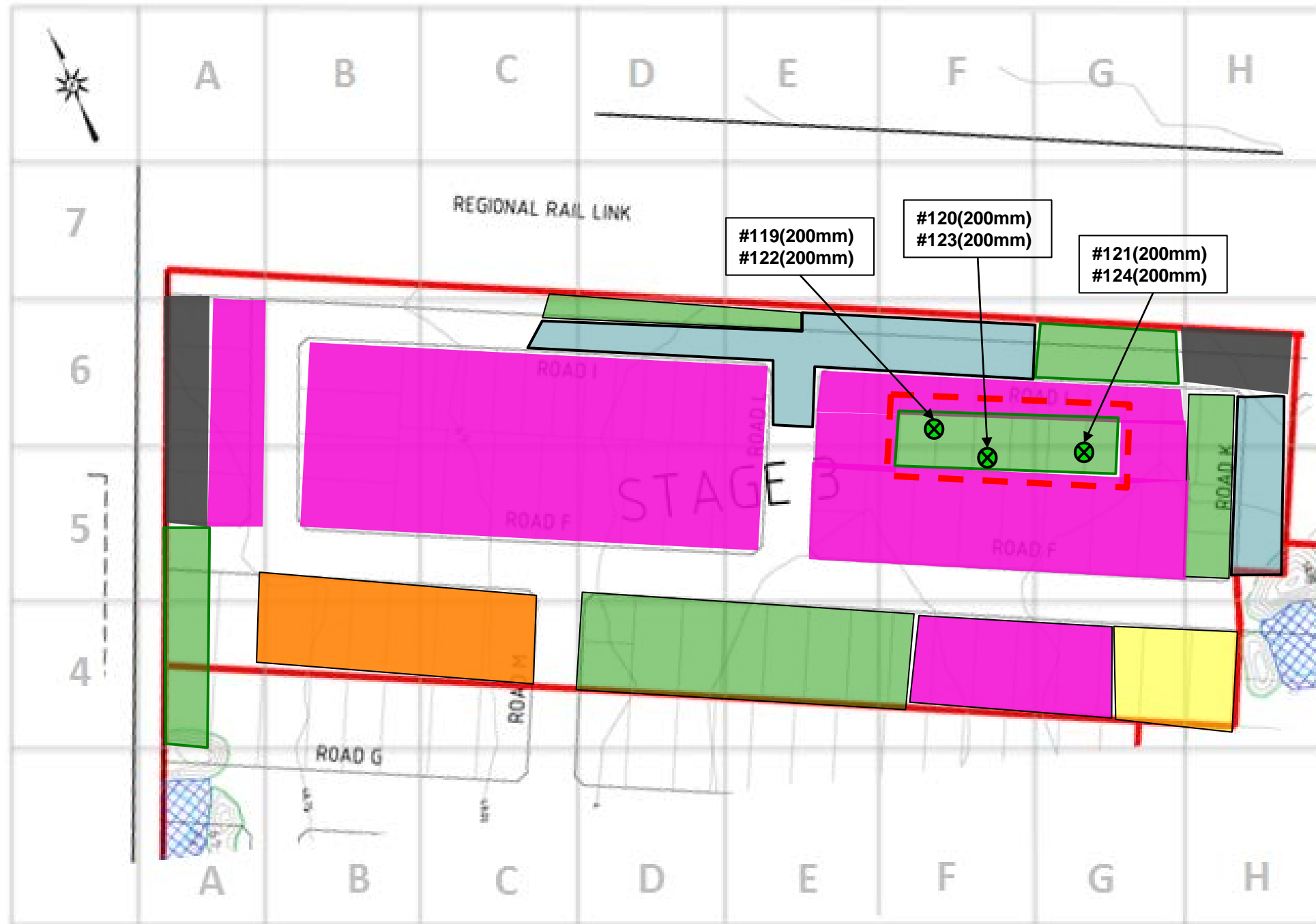
**Photo 2 – Grid Location F6 South Looking South-East:
Proof Roll of Subgrade In Progress**



**Photo 3 – Grid Location F6 South Looking South-East:
Surface Proof-Rolled and Waiting for Placement**

revision	description	drawn	approved	date		drawn	W.H	 A TETRA TECH COMPANY	client:	SPIRE	
						approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3	
						date	05/10/2016		title:	DAILY RECORD – LEVEL 1 GITA	
						scale	NTS		project no:	GEOTABTF09878AA	figure no:
						original size	A3				

Date	Day	Time on Site	Personnel	Weather	Mobile plant
06/10/16	Thursday	7:30 AM – 3:30 PM	Will Harding	Sunny, 15°C	1 x CAT Dozer



Legend


	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		Uncontrolled Fill
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		

revision	description				drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIRE	
								approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	06/10/2016		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection	<ul style="list-style-type: none"> N/A
Placing/Compaction	<ul style="list-style-type: none"> Stage 3 Bulk Earthworks: <ul style="list-style-type: none"> Layer 1 & 2 successfully placed and tested
Fill/Material	<ul style="list-style-type: none"> Material won from on site locations
Test	<ul style="list-style-type: none"> 6 Field Density Tests on Stage 3
Comments/On-site Communication	<ul style="list-style-type: none"> Layers 1 and 2 were successfully placed and tested. All Tests Passed 1.61

Stage 3									
Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
119	X	F6 South	1	2.02	1.70	18.9	104.5	2.5 Dry	Pass
120	X	F5 North	1	1.98	1.66	19.0	100.5	2.5 Dry	Pass
121	X	G5 North	1	1.97	1.68	17.3	100.5	2.5 Dry	Pass
122	X	F6 South	2	1.98	1.62	22.6	101.5	2.5 Dry	Pass
123	X	F5 North	2	1.96	1.59	23.2	104.5	3.5 Dry	Fail
124	X	G5 North	2	1.93	1.61	20.1	103.5	3.5 Dry	Fail

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	06/10/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					



**Photo 1 – Grid Location F6 Looking South:
Freshly Dug and Proof-Rolled Surface Read to Be Filled**




**Photo 2 – Grid Location F6 Looking South:
Commencement of Fill**



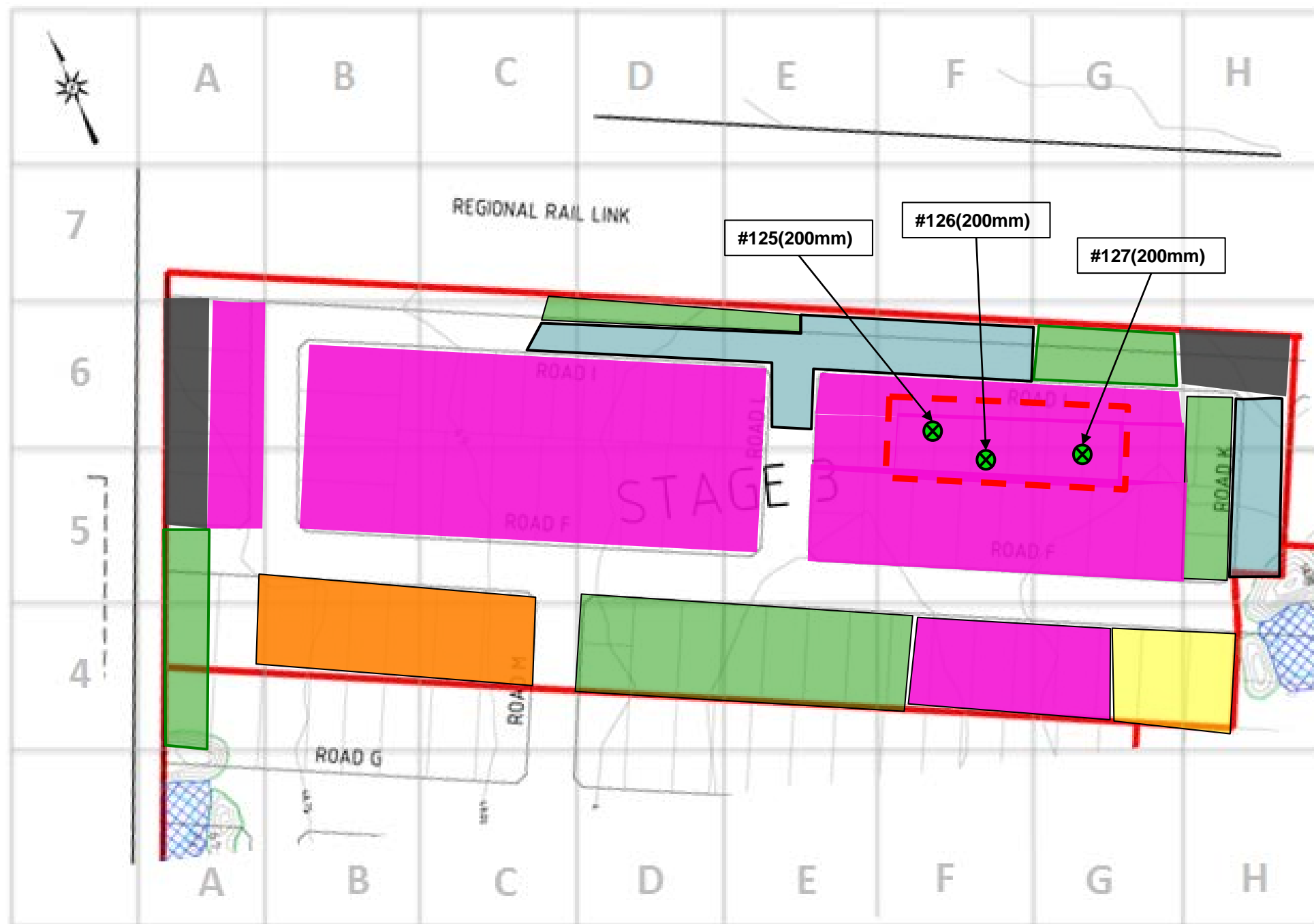
**Photo 3 – Grid Location G5 Looking North:
Conditioning of Soil**



**Photo 4 – Grid Location G5 Looking North:
Commencement of Layer 2**

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	06/10/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
07/10/16	Friday	7:30 AM – 1:30 PM 12:30 PM – 1:30 PM	Will Harding Shaun Price	Sunny, 15°C	1 x CAT Dozer



Legend

	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		Uncontrolled Fill
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		

revision	description				drawn	approved	date	drawn	W.H	 A TETRA TECH COMPANY	client:	SPIRE	
								approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	07/10/2016		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection

- N/A

Placing/Compaction

- Stage 3 Bulk Earthworks:
 - Layer 3 successfully placed and tested

Fill/Material

- Material won from on site locations

Test

- 3 Field Density Tests on Stage 3


Comments/On-site Communication

- Layers 1 and 2 were successfully placed and tested.
- All Tests Passed except for #125 which failed on moisture

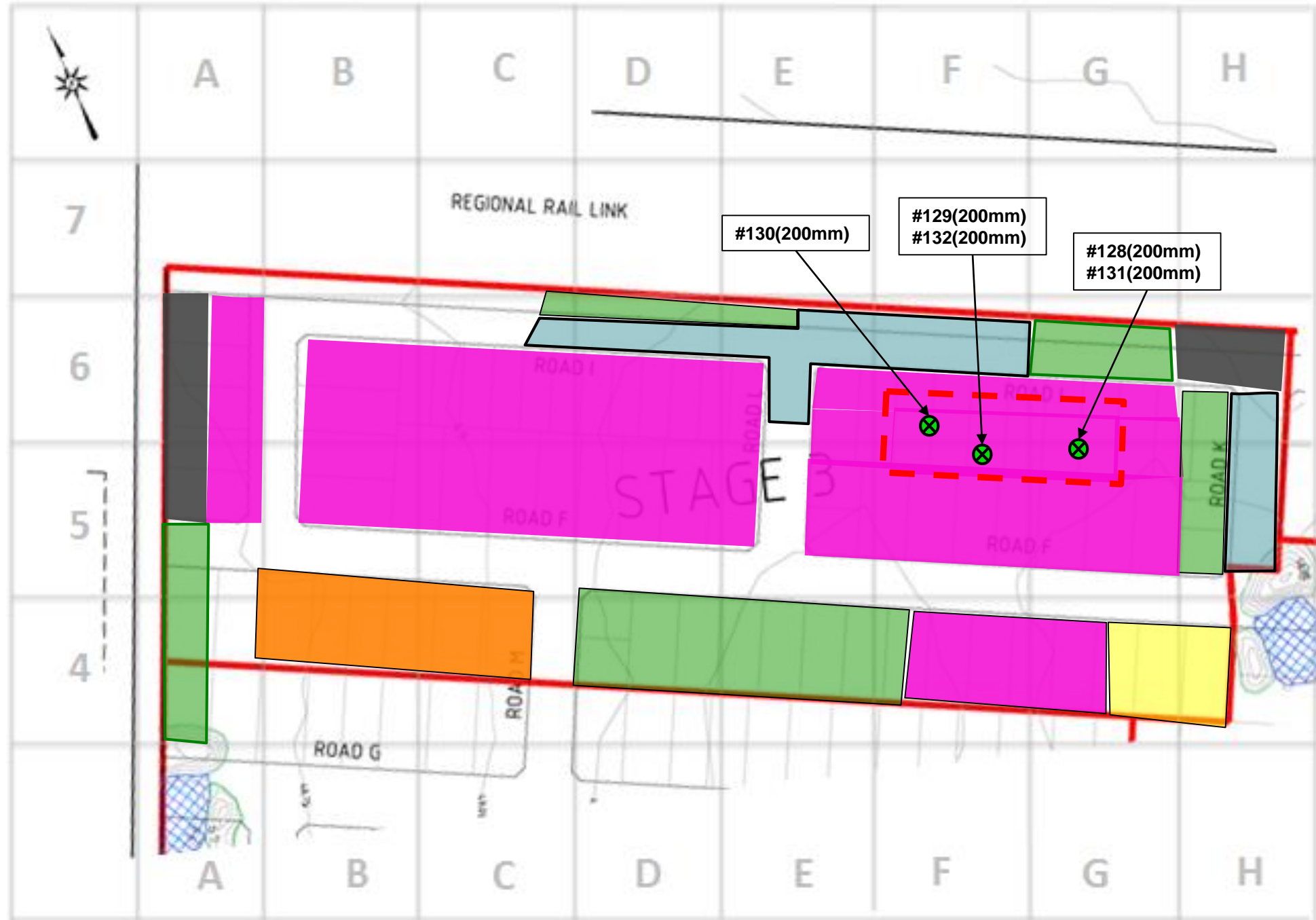
Stage 3

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
125	X	F6 South	3	1.96	1.65	18.9	105.5	4.5 Dry	Fail
126	X	F5 North	3	1.96	1.63	20.4	104.0	2.5 Dry	Pass
127	X	G5 North	3	1.98	1.66	19.7	102.0	3.0 Dry	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3		
					date	07/10/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					

Date	Day	Time on Site	Personnel	Weather	Mobile plant
18/10/16	Tuesday	7:30 AM – 3:30 PM	Will Harding	Sunny, 13°C	1 x 18t Pad foot roller 1 x CAT Bull Dozer 1 x Water Cart



Legend

	Subgrade		Layer 9
	Layer 1		Layer 10
	Layer 2		Uncontrolled Fill
	Layer 3		
	Layer 4		
	Layer 5		
	Layer 6		
	Layer 7		
	Layer 8		
	Layer placed today		
	Subgrade assessed today		
	Topsoil stockpile		
	Stockpiled fill		
	Nuclear Density Gauge test location (approximate)		

revision	description				drawn	approved	date	drawn	W.H	 A TETRA TECH COMPANY	client:	SPIRE	
								approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3	
								date	18/10/2016		title:	DAILY RECORD – LEVEL 1 GITA	
								scale	NTS		project no:	GEOTABTF09878AA	figure no:
								original size	A3				

Subgrade Inspection

- N/A

Placing/Compaction

- Stage 3 Bulk Earthworks:
 - Layer 2 in sections F5-North and G5 had to be reworked.
 - Layer 3 in sections F6-South, F5-North and G5 were then successfully laid, compacted and tested.
- Stage 4 Bulk Earthworks:
 - Small Section on L5 North-East had to be filled, compacted and tested.

Fill/Material

- Material won from on site locations

Test

- 5 x Field Density Tests Performed on Stage 3
- 2 x Field Density Tests Performed on Stage 4

Comments/On-site Communication

- All Tests Passed

revision	description	drawn	approved	date	drawn	W.H	 <small>A TETRA TECH COMPANY</small>	client:	SPIRE		
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3 & 4		
					date	18/10/2016		title:	DAILY RECORD – LEVEL 1 GITA		
					scale	NTS		project no:	GEOTABTF09878AA	figure no:	
					original size	A3					


Stage 3

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
128	X	G5	2	1.97	1.62	21.5	99.5	OMC	Pass
129	X	F5-North	2	1.99	1.64	20.9	99.0	OMC	Pass
130	X	F6-South	3	1.99	1.65	21.0	102.5	2.5 Dry	Pass
131	X	F5-North	3	2.02	1.70	19.2	104.0	2.5 Dry	Pass
132	X	G5	3	1.99	1.65	20.8	104.0	1.5 Dry	Pass

Stage 4

Test	Retest	Grid Area	Layer	Wet Density (t/m ³)	Dry Density (t/m ³)	Moisture Content (%)	Hilf Density Ratio (%)	Moisture Variation (%)	Comment
209	X	L5 North-East	7	2.09	1.73	20.7	100.5	0.5 Dry	Pass
210	X	L5 South-East	6	2.04	1.74	17.5	101.0	OMC	Pass

Specification: HILF ≥ 95% of standard compaction / Moisture Variation: + or – 3% OMC

revision	description	drawn	approved	date		drawn	W.H	 A TETRA TECH COMPANY	client: SPIIRE
						approved	S.P		project: LITTLE GREEN ESTATE- STAGE 3 & 4
						date	18/10/2016		title: DAILY RECORD – LEVEL 1 GITA
						scale	NTS		project no: GEOTABTF09878AA figure no:
						original size	A3		



**Photo 1 – Grid section L5 (Stage 4) Looking North:
Stockpile added to area**



**Photo 2 – Grid section F6-South (Stage 3) Looking East:
Layer 2 completed and ready for testing**



**Photo 3 – Grid section F6-South (Stage 3) Looking North:
Layer 2 completed and ready for testing**



**Photo 4 – Grid section G5 (Stage 3) Looking North:
Layer 3 completed and ready for testing**

revision	description	drawn	approved	date	drawn	W.H		client:	SPIIRE	
					approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 3 & 4	
					date	18/10/2016		title:	DAILY RECORD – LEVEL 1 GITA	
					scale	NTS		project no:	GEOTABTF09878AA	figure no:
					original size	A3				

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