

SITA AUSTRALIA

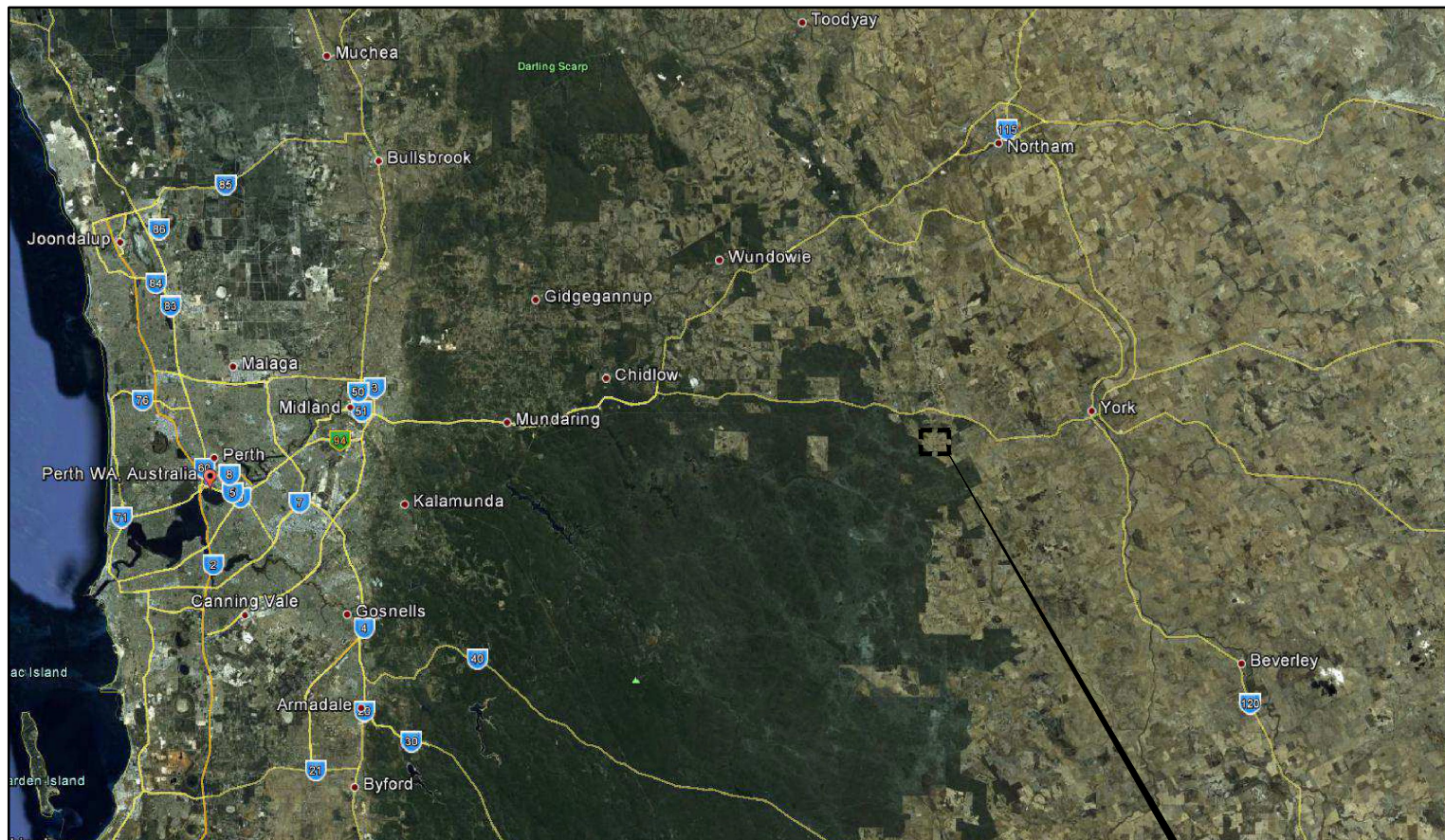
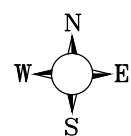
ALLAWUNA FARM LANDFILL

Lots 4869, 5931, 9926 & 26934 Great Southern Highway, Saint Ronans

INFRASTRUCTURE CONSTRUCTION PLANS

DRAWING SCHEDULE - CIVIL INFRASTRUCTURE

DRAWING No.	REVISION	DESCRIPTION
ALLA - 001	C	Cover Sheet, Locality & Drg. Schedule
ALLA - 002	C	Site Plan
ALLA - 003	C	Overall Layout - Plan 1 of 2
ALLA - 004	C	Overall Layout - Plan 2 of 2
ALLA - 005	C	Typical Road Cross Sections
ALLA - 006	C	Roadworks & Drainage Layout - Plan 1
ALLA - 007	C	Roadworks & Drainage Layout - Plan 2
ALLA - 008	C	Roadworks & Drainage Layout - Plan 3
ALLA - 009	C	Roadworks & Drainage Layout - Plan 4
ALLA - 010	C	Roadworks & Drainage Layout - Plan 5
ALLA - 011	C	Roadworks & Drainage Layout - Plan 6
ALLA - 012	C	Road No.1 Long Section - Sheet 1 of 4
ALLA - 013	C	Road No.1 Long Section - Sheet 2 of 4
ALLA - 014	C	Road No.1 Long Section - Sheet 3 of 4
ALLA - 015	C	Road No.1 Long Section - Sheet 4 of 4
ALLA - 016	C	Road No.2 Long Section - Sheet 1 of 2
ALLA - 017	C	Road No.2 Long Section - Sheet 2 of 2
ALLA - 018	C	Miscellaneous Details
ALLA - 019	C	Culvert No.1 Layout Plan and Details
ALLA - 020	C	Infrastructure Area Layout Plan
ALLA - 021	C	Infrastructure Area Setout Plan
ALLA - 022	C	Control Line Setout Plan
ALLA - 023	C	Weighbridge Layout Plan and Details
ALLA - 024	C	Mud Shaker Grid Layout Plan
ALLA - 025	C	Mud Shaker Grid Structural Details
ALLA - 026	C	Carport Layout Plan & Details
ALLA - 027	C	Leachate Loading Pad Details
ALLA - 028	C	Concrete and Steel Notes
ALLA - 029	C	Services Layout Plan
ALLA - 030	C	Fence Layout Plan
ALLA - 031	C	Stormwater Catchment Plan & Calcs.
ALLA - 032	C	Sediment & Erosion Control Layout Plan
ALLA - 033	C	Sediment & Erosion Control Details
ALLA - 050	0	Electrical Layout



LOCALITY PLAN
NOT TO SCALE

SITE OF
WORKS

WORKS APPROVAL

31 MARCH 2015



Bowman and Associates Pty Ltd

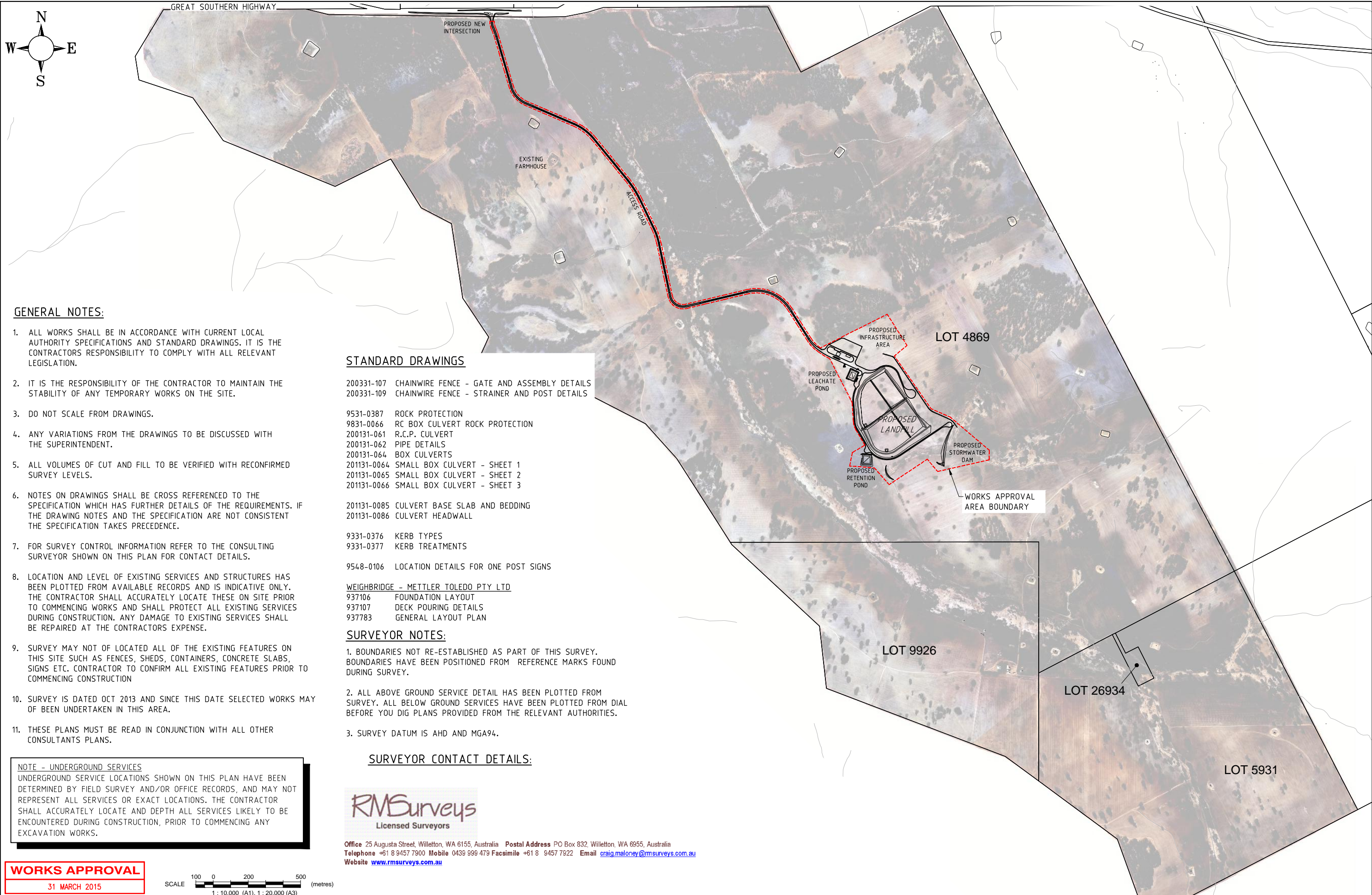
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Client				Location		Drawing Title		
SITA Australia				Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans		Cover Sheet, Locality & Drg. Schedule		
Date	Scale	Design By	Drawn By	Project		Drawing Number	Revision	Drawing Size
31/03/15	N.T.S.	B.W.B.	S.B.Y.	Allawuna Farm Landfill		ALLA - 001	C	A1



GENERAL NOTES:

- 1. ALL WORKS SHALL BE IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY SPECIFICATIONS AND STANDARD DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH ALL RELEVANT LEGISLATION.
- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE STABILITY OF ANY TEMPORARY WORKS ON THE SITE.
- 3. DO NOT SCALE FROM DRAWINGS.
- 4. ANY VARIATIONS FROM THE DRAWINGS TO BE DISCUSSED WITH THE SUPERINTENDENT.
- 5. ALL VOLUMES OF CUT AND FILL TO BE VERIFIED WITH RECONFIRMED SURVEY LEVELS.
- 6. NOTES ON DRAWINGS SHALL BE CROSS REFERENCED TO THE SPECIFICATION WHICH HAS FURTHER DETAILS OF THE REQUIREMENTS. IF THE DRAWING NOTES AND THE SPECIFICATION ARE NOT CONSISTENT THE SPECIFICATION TAKES PRECEDENCE.
- 7. FOR SURVEY CONTROL INFORMATION REFER TO THE CONSULTING SURVEYOR SHOWN ON THIS PLAN FOR CONTACT DETAILS.
- 8. LOCATION AND LEVEL OF EXISTING SERVICES AND STRUCTURES HAS BEEN PLOTTED FROM AVAILABLE RECORDS AND IS INDICATIVE ONLY. THE CONTRACTOR SHALL ACCURATELY LOCATE THESE ON SITE PRIOR TO COMMENCING WORKS AND SHALL PROTECT ALL EXISTING SERVICES DURING CONSTRUCTION. ANY DAMAGE TO EXISTING SERVICES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- 9. SURVEY MAY NOT OF LOCATED ALL OF THE EXISTING FEATURES ON THIS SITE SUCH AS FENCES, SHEDS, CONTAINERS, CONCRETE SLABS, SIGNS ETC. CONTRACTOR TO CONFIRM ALL EXISTING FEATURES PRIOR TO COMMENCING CONSTRUCTION
- 10. SURVEY IS DATED OCT 2013 AND SINCE THIS DATE SELECTED WORKS MAY OF BEEN UNDERTAKEN IN THIS AREA.
- 11. THESE PLANS MUST BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS PLANS.

NOTE - UNDERGROUND SERVICES
UNDERGROUND SERVICE LOCATIONS SHOWN ON THIS PLAN HAVE BEEN DETERMINED BY FIELD SURVEY AND/OR OFFICE RECORDS, AND MAY NOT REPRESENT ALL SERVICES OR EXACT LOCATIONS. THE CONTRACTOR SHALL ACCURATELY LOCATE AND DEPTH ALL SERVICES LIKELY TO BE ENCOUNTERED DURING CONSTRUCTION, PRIOR TO COMMENCING ANY EXCAVATION WORKS.

STANDARD DRAWINGS

- 200331-107 CHAINWIRE FENCE - GATE AND ASSEMBLY DETAILS
- 200331-109 CHAINWIRE FENCE - STRAINER AND POST DETAILS
- 9531-0387 ROCK PROTECTION
- 9831-0066 RC BOX CULVERT ROCK PROTECTION
- 200131-061 R.C.P. CULVERT
- 200131-062 PIPE DETAILS
- 200131-064 BOX CULVERTS
- 201131-0064 SMALL BOX CULVERT - SHEET 1
- 201131-0065 SMALL BOX CULVERT - SHEET 2
- 201131-0066 SMALL BOX CULVERT - SHEET 3
- 201131-0085 CULVERT BASE SLAB AND BEDDING
- 201131-0086 CULVERT HEADWALL
- 9331-0376 KERB TYPES
- 9331-0377 KERB TREATMENTS
- 9548-0106 LOCATION DETAILS FOR ONE POST SIGNS
- WEIGHBRIDGE - METTLER TOLEDO PTY LTD
- 937106 FOUNDATION LAYOUT
- 937107 DECK POURING DETAILS
- 937783 GENERAL LAYOUT PLAN

SURVEYOR NOTES:

- 1. BOUNDARIES NOT RE-ESTABLISHED AS PART OF THIS SURVEY. BOUNDARIES HAVE BEEN POSITIONED FROM REFERENCE MARKS FOUND DURING SURVEY.
- 2. ALL ABOVE GROUND SERVICE DETAIL HAS BEEN PLOTTED FROM SURVEY. ALL BELOW GROUND SERVICES HAVE BEEN PLOTTED FROM DIAL BEFORE YOU DIG PLANS PROVIDED FROM THE RELEVANT AUTHORITIES.
- 3. SURVEY DATUM IS AHD AND MGA94.

SURVEYOR CONTACT DETAILS:




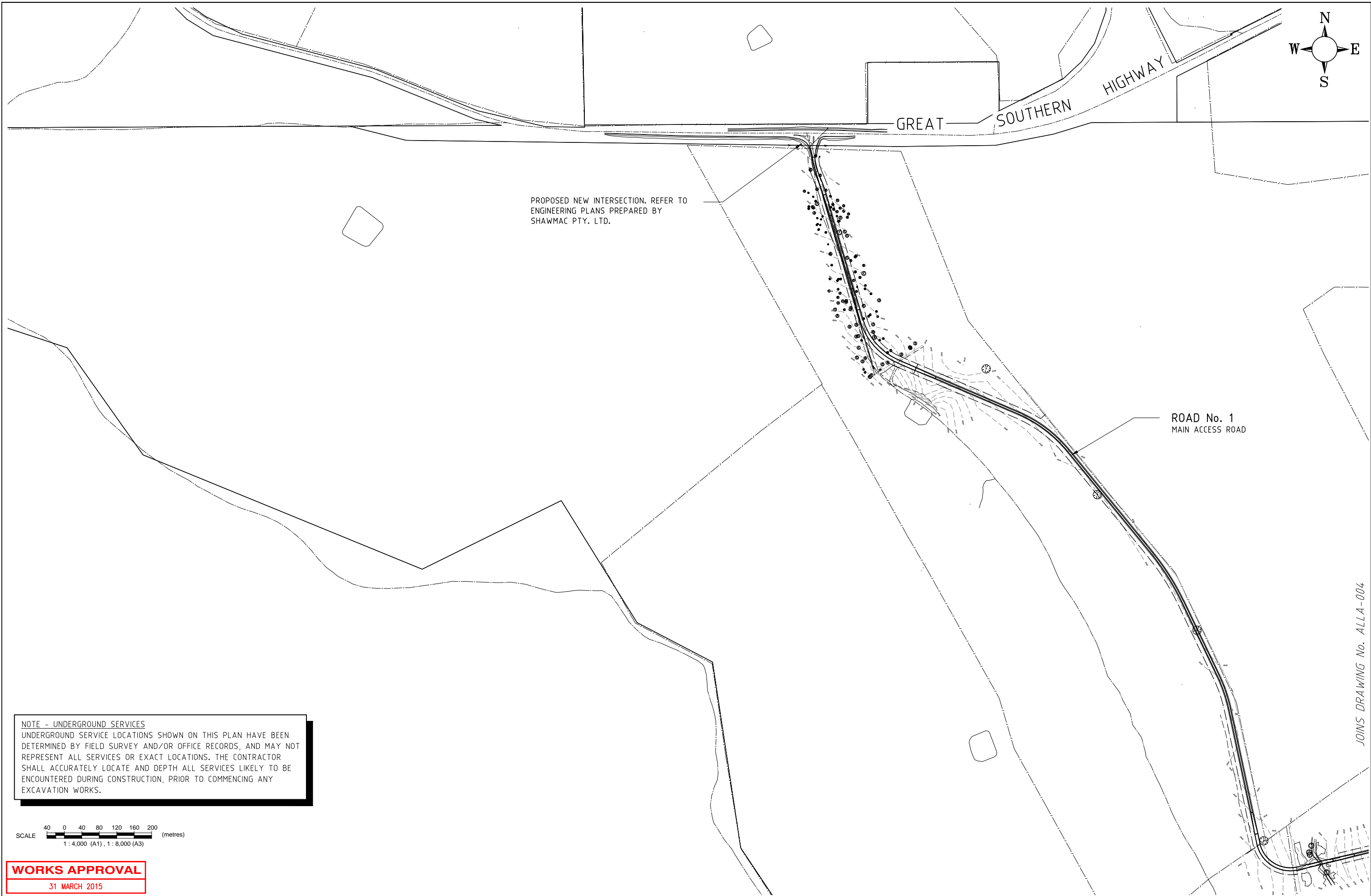
Office 25 Augusta Street, Willetton, WA 6155, Australia Postal Address PO Box 832, Willetton, WA 6955, Australia
Telephone +61 8 9457 7900 Mobile 0439 999 479 Facsimile +61 8 9457 7922 Email craig.maloney@rmsurveys.com.au
Website www.rmsurveys.com.au

WORKS APPROVAL

31 MARCH 2015

SCALE 100 0 200 500 (metres)
1 : 10,000 (A1), 1 : 20,000 (A3)

<div><div><div>Bowman and Associates Pty Ltd</div><div>ABN: 22 112 399 514</div><div><div>Mail: PO Box 2059, Rossmoyne WA 6148</div><div>Phone: (08) 9414 9670</div><div>Office: 8/640 Beeliar Drive, Success WA 6164</div><div>Web: www.bowmanassociates.com.au</div></div></div></div>				Client		Location		Drawing Title		
				SITA Australia		Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans		Site Plan		
Date		Scale		Design By	Drawn By	Project		Drawing Number	Revision	Drawing Size
31/03/15		1:10,000		B.W.B.	S.B.Y.	Allawuna Farm Landfill		ALLA - 002	C	A1





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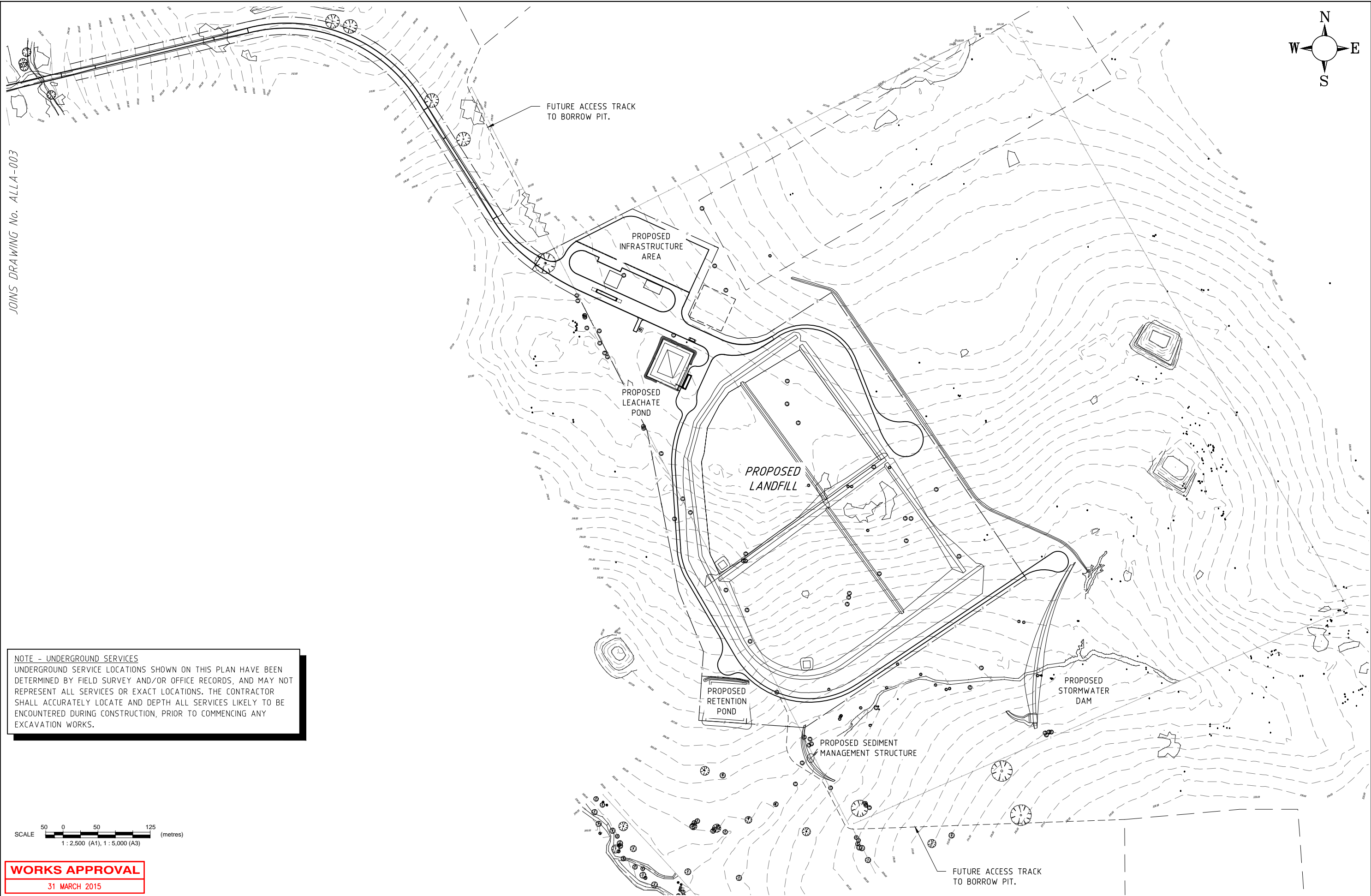
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Client			
SITA Australia			
Date	Scale	Design By	Drawn By
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Location
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans
Project
Allawuna Farm Landfill

Drawing Title		
Overall Layout - Plan 1 of 2		
Drawing Number	Revision	Drawing Size
ALLA - 003	C	A1





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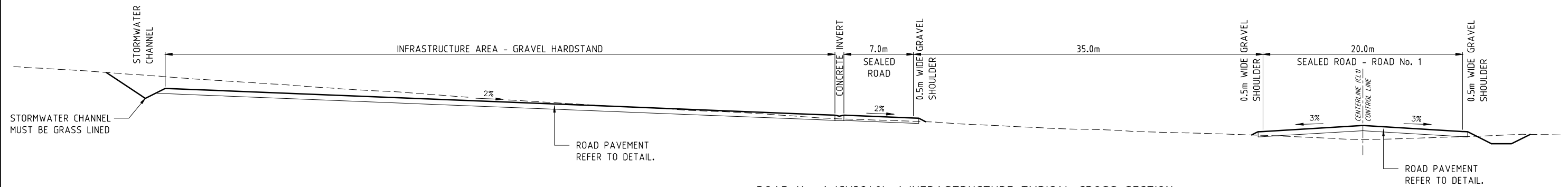
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Client			
SITA Australia			
Date	Scale	Design By	Drawn By
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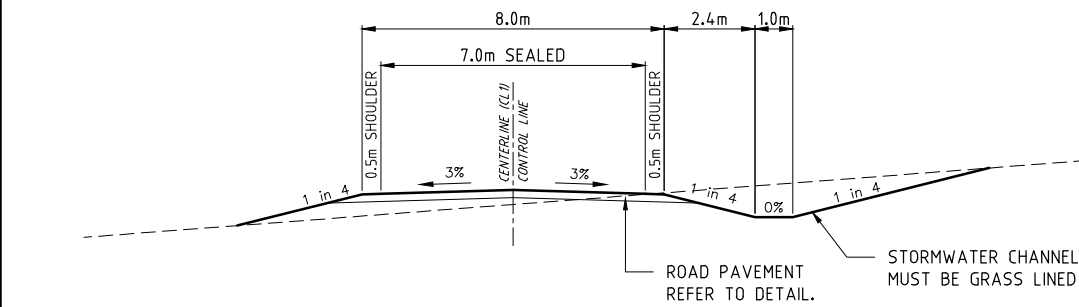
Location	
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans	
Project	
Allawuna Farm Landfill	

Drawing Title		
Overall Layout - Plan 2 of 2		
Drawing Number	Revision	Drawing Size
ALLA - 004	C	A1



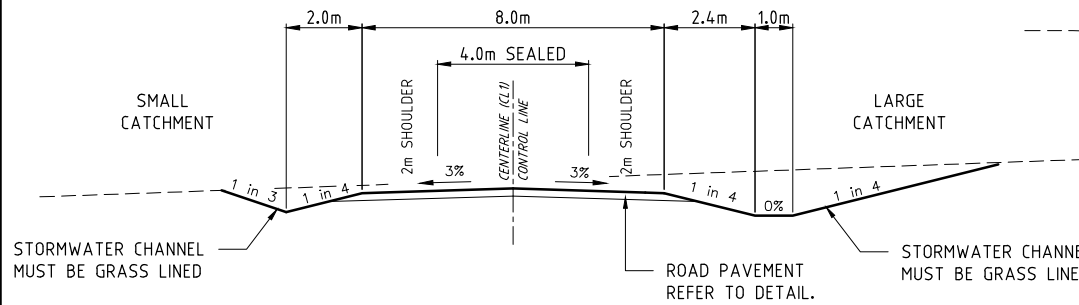
ROAD No. 1 (CH3240) / INFRASTRUCTURE TYPICAL CROSS SECTION

SCALE H 1 : 200 (A1)
V 1 : 100 (A1)



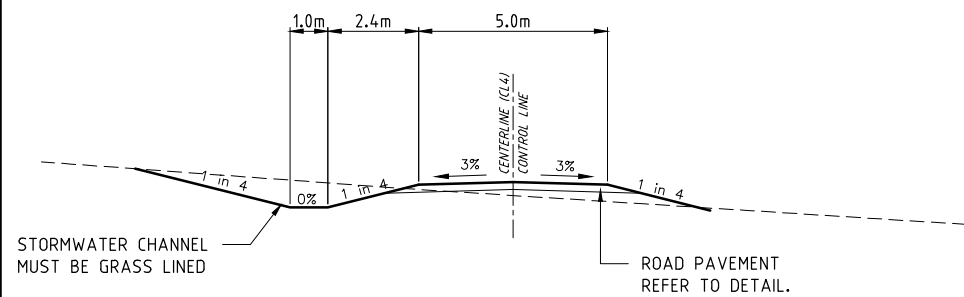
ROAD No. 1 TYPICAL CROSS SECTION (7m WIDE SEALED)

SCALE 1 : 100 (A1)



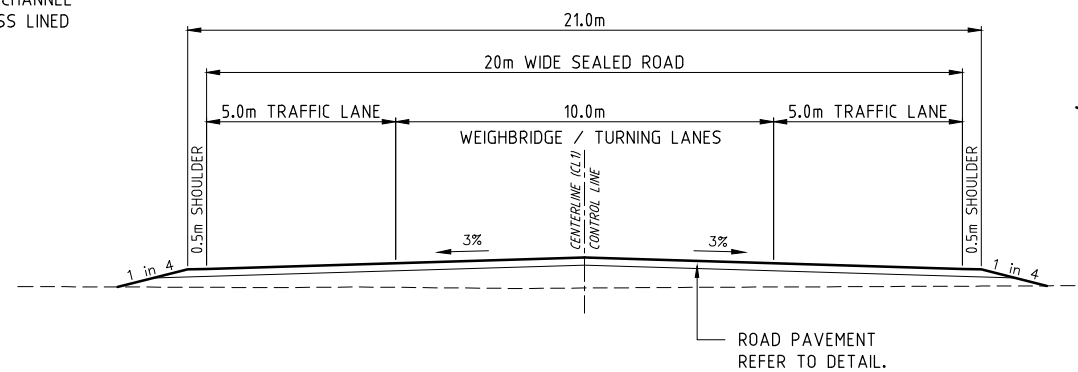
ROAD No. 1 TYPICAL CROSS SECTION (4m WIDE SEALED)

SCALE 1 : 100 (A1)



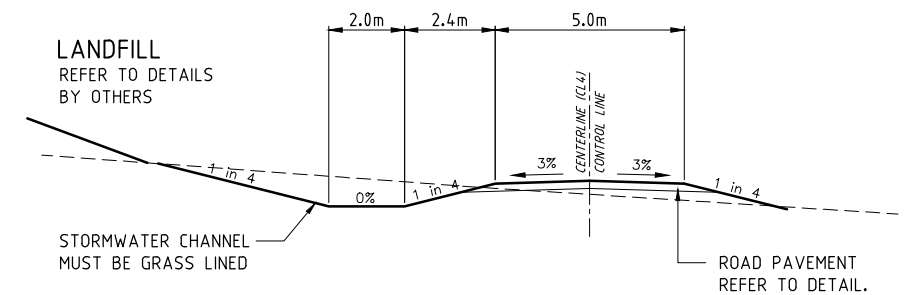
ROAD No. 1 TYPICAL CROSS SECTION (5m WIDE GRAVEL)

SCALE 1 : 100 (A1)



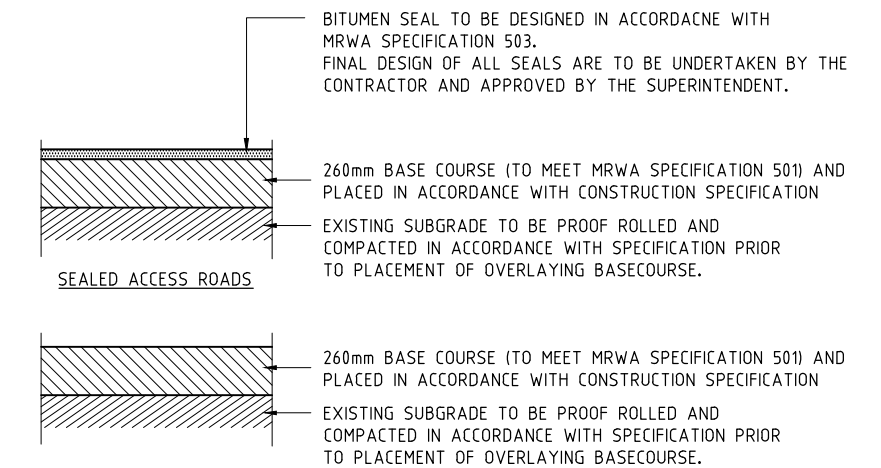
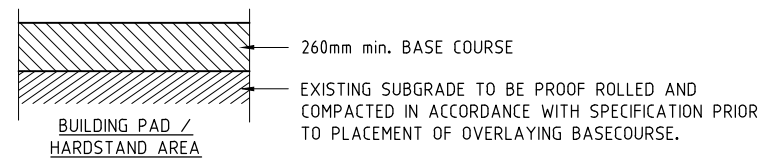
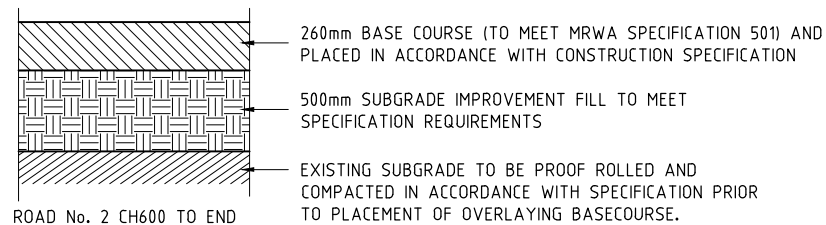
ROAD No. 1 TYPICAL CROSS SECTION - INFRASTRUCTURE AREA

SCALE 1 : 100 (A1)



ROAD No. 2 TYPICAL CROSS SECTION (5m WIDE GRAVEL)

SCALE 1 : 100 (A1)



UNSEALED ACCESS ROADS & SHOULDERS

PAVEMENT DETAILS

WORKS APPROVAL
31 MARCH 2015



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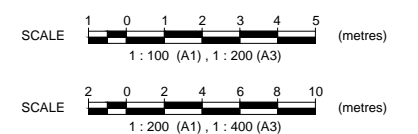
ABN: 22 112 399 514

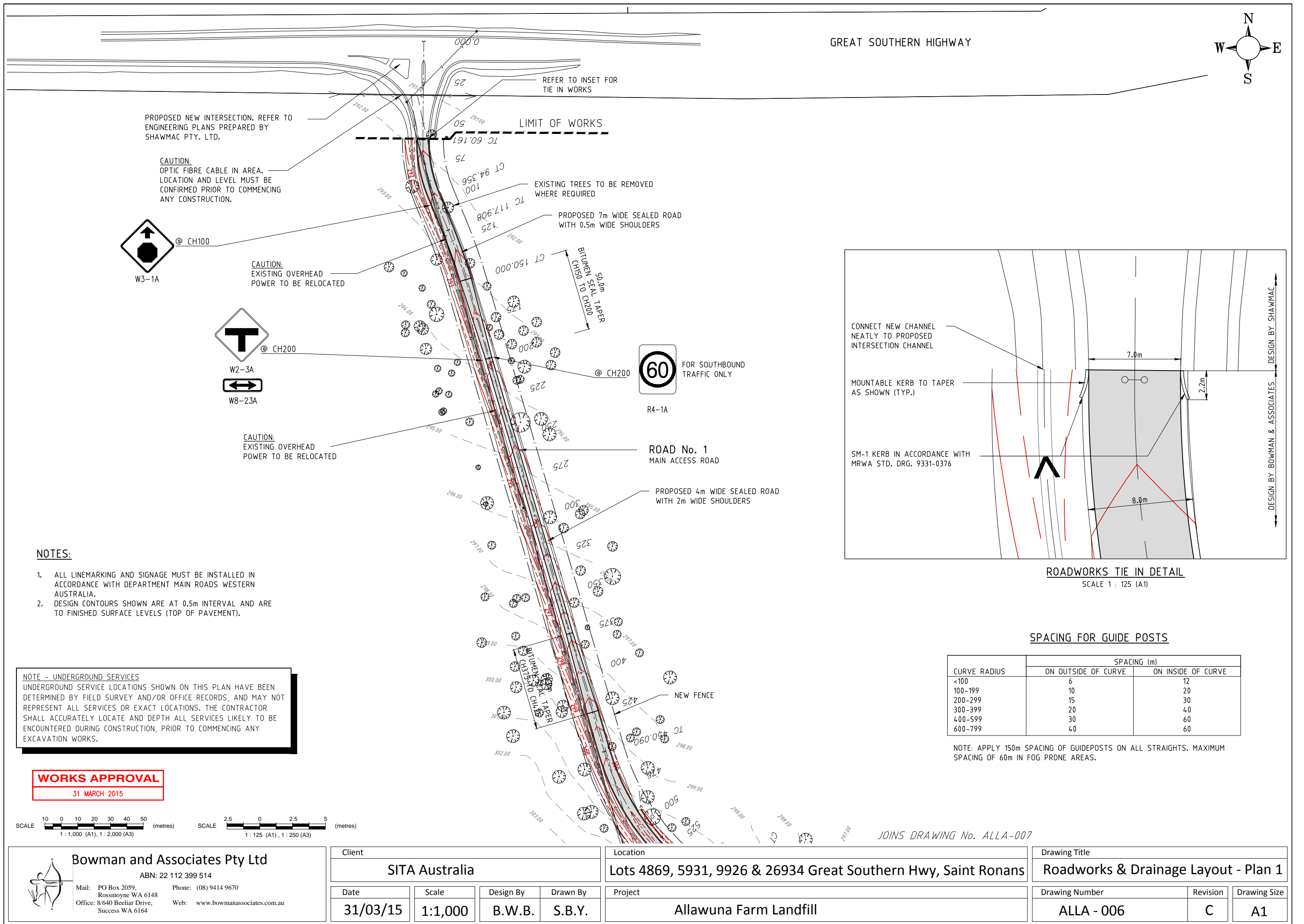
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Client			
SITA Australia			
Date	Scale	Design By	Drawn By
31/03/15	1 : 100	B.W.B.	S.B.Y.

Location	
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans	
Project	
Allawuna Farm Landfill	

Drawing Title		
Typical Road Cross Sections		
Drawing Number	Revision	Drawing Size
ALLA - 005	C	A1





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Client

SITA Australia

Date

31/03/15

Scale

1:1,000

Design By

B.W.B.

Drawn By

S.B.Y.

Location

Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans

Project

Allawuna Farm Landfill

Drawing Title

Roadworks & Drainage Layout - Plan 1

Drawing Number

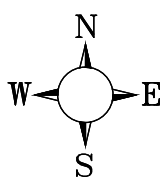
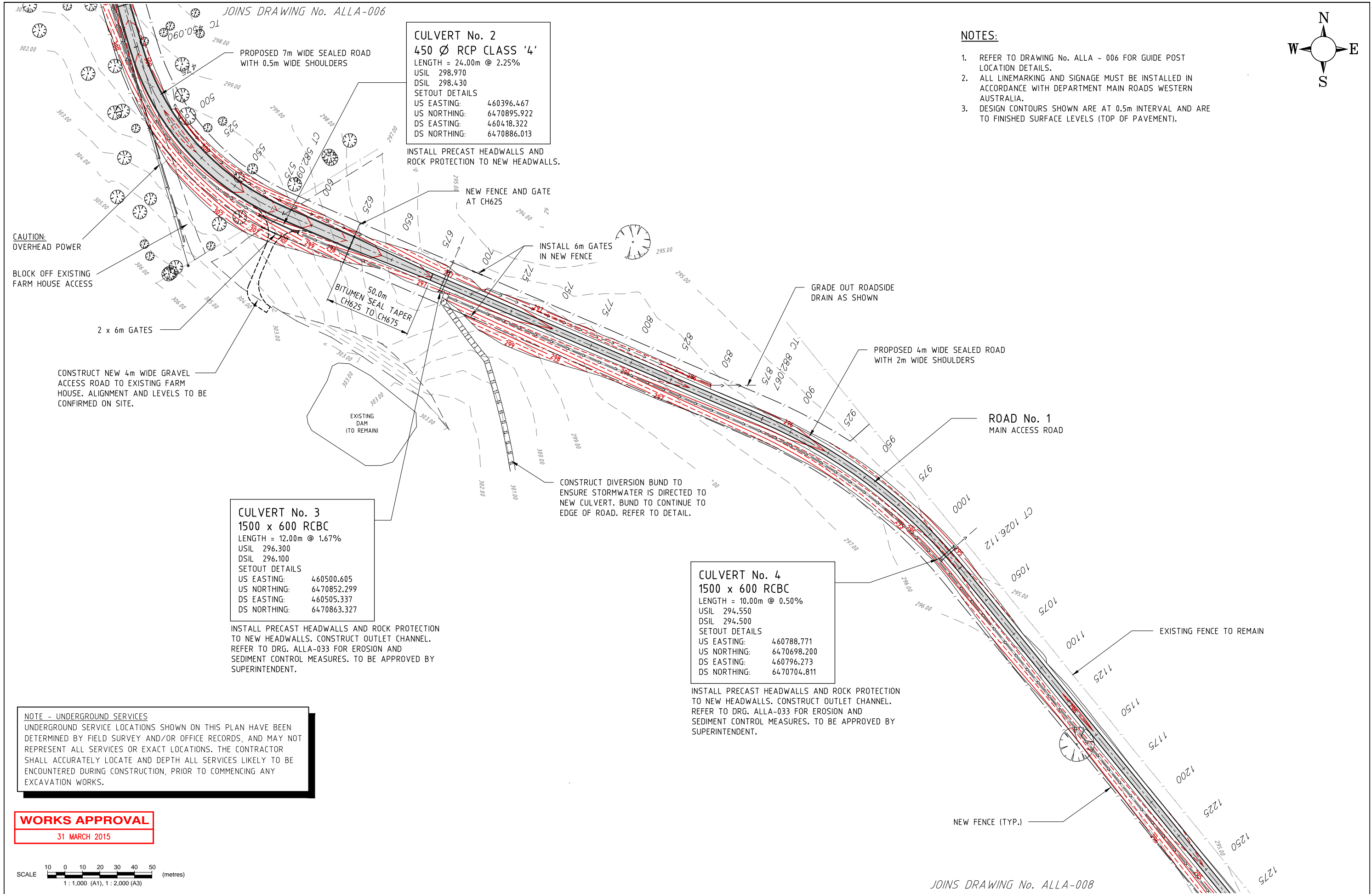
ALLA - 006


Revision

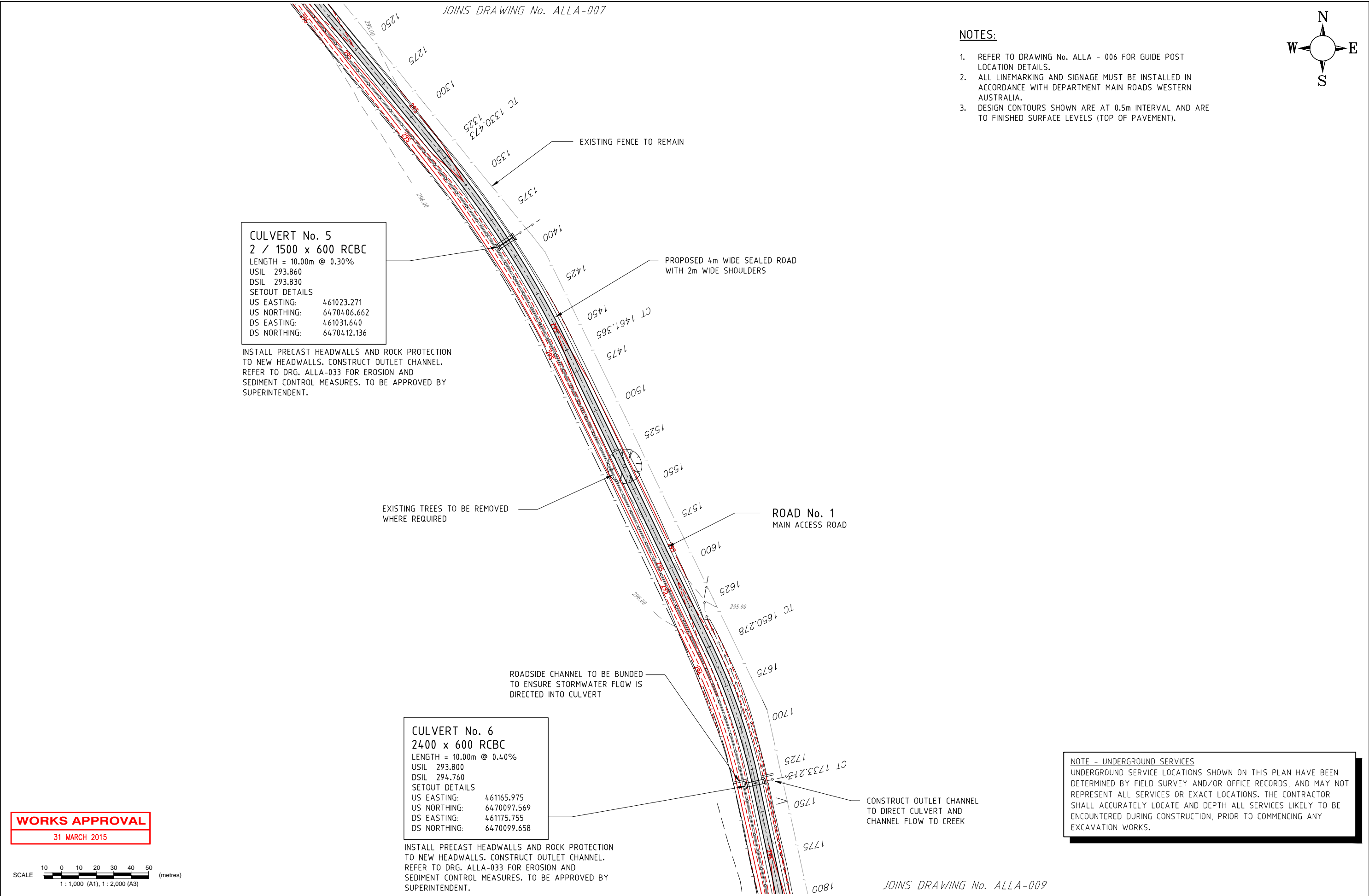
C

Drawing Size

A1



 <div>Bowman and Associates Pty Ltd ABN: 22 112 399 514 Mail: PO Box 2059, Rossmoyne WA 6148 Office: 8/640 Beeliar Drive, Success WA 6164 Phone: (08) 9414 9670 Web: www.bowmanassociates.com.au</div>	Client				Location		Drawing Title		
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	Date	Scale	Design By	Drawn By	Project		Drawing Number	Revision	Drawing Size
	31/03/15	1:1,000	B.W.B.	S.B.Y.	Allawuna Farm Landfill		ALLA - 007	C	A1



WORKS APPROVAL
31 MARCH 2015



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Client			
SITA Australia			
Date	Scale	Design By	Drawn By
31/03/15	1:1,000	B.W.B.	S.B.Y.

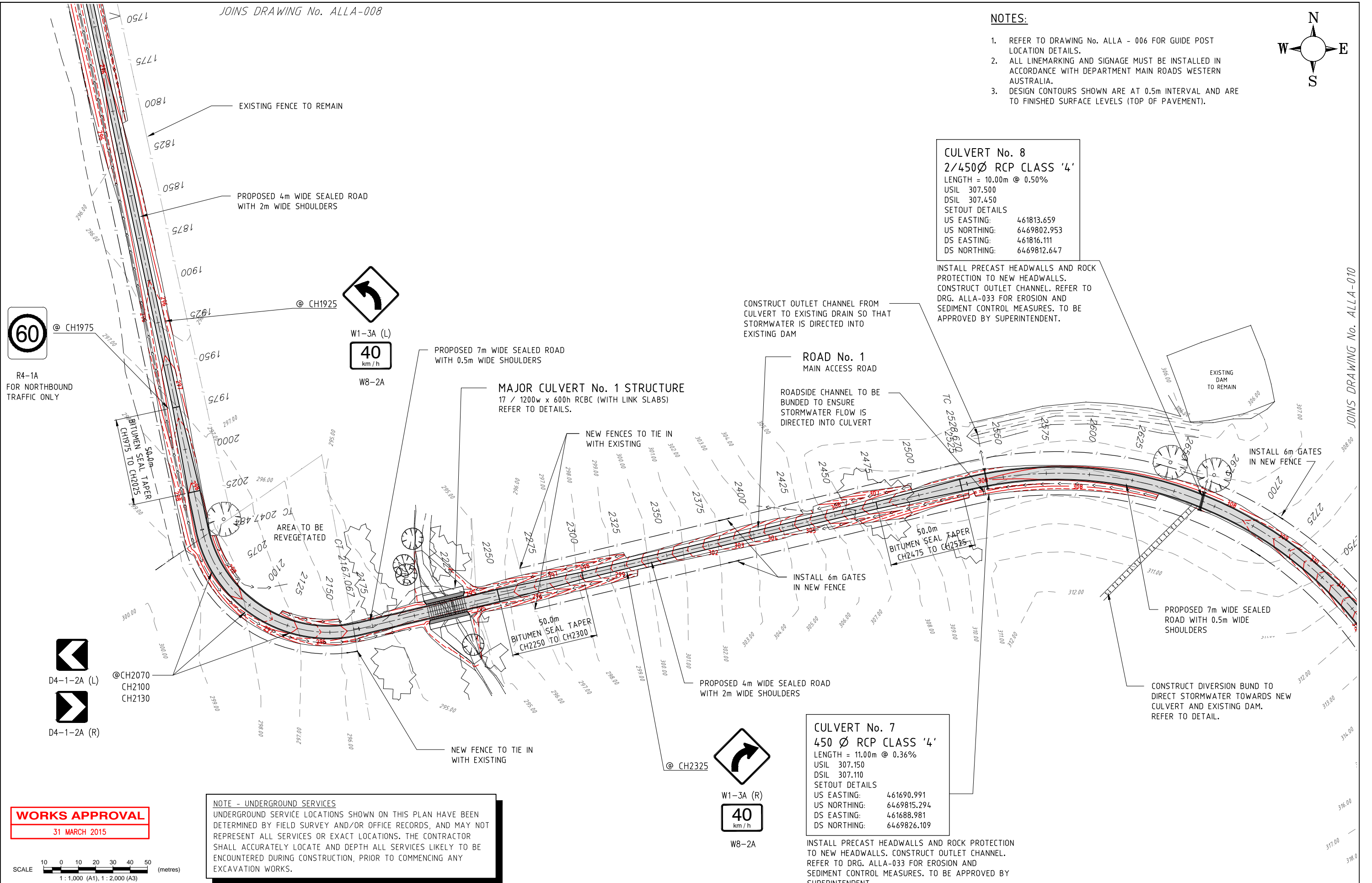
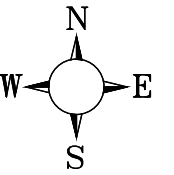
Location
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans
Project
Allawuna Farm Landfill

Drawing Title		
Roadworks & Drainage Layout - Plan 3		
Drawing Number	Revision	Drawing Size
ALLA - 008	C	A1

JOINS DRAWING No. ALLA-008

NOTES:

1. REFER TO DRAWING No. ALLA - 006 FOR GUIDE POST LOCATION DETAILS.
2. ALL LINEMARKING AND SIGNAGE MUST BE INSTALLED IN ACCORDANCE WITH DEPARTMENT MAIN ROADS WESTERN AUSTRALIA.
3. DESIGN CONTOURS SHOWN ARE AT 0.5m INTERVAL AND ARE TO FINISHED SURFACE LEVELS (TOP OF PAVEMENT).



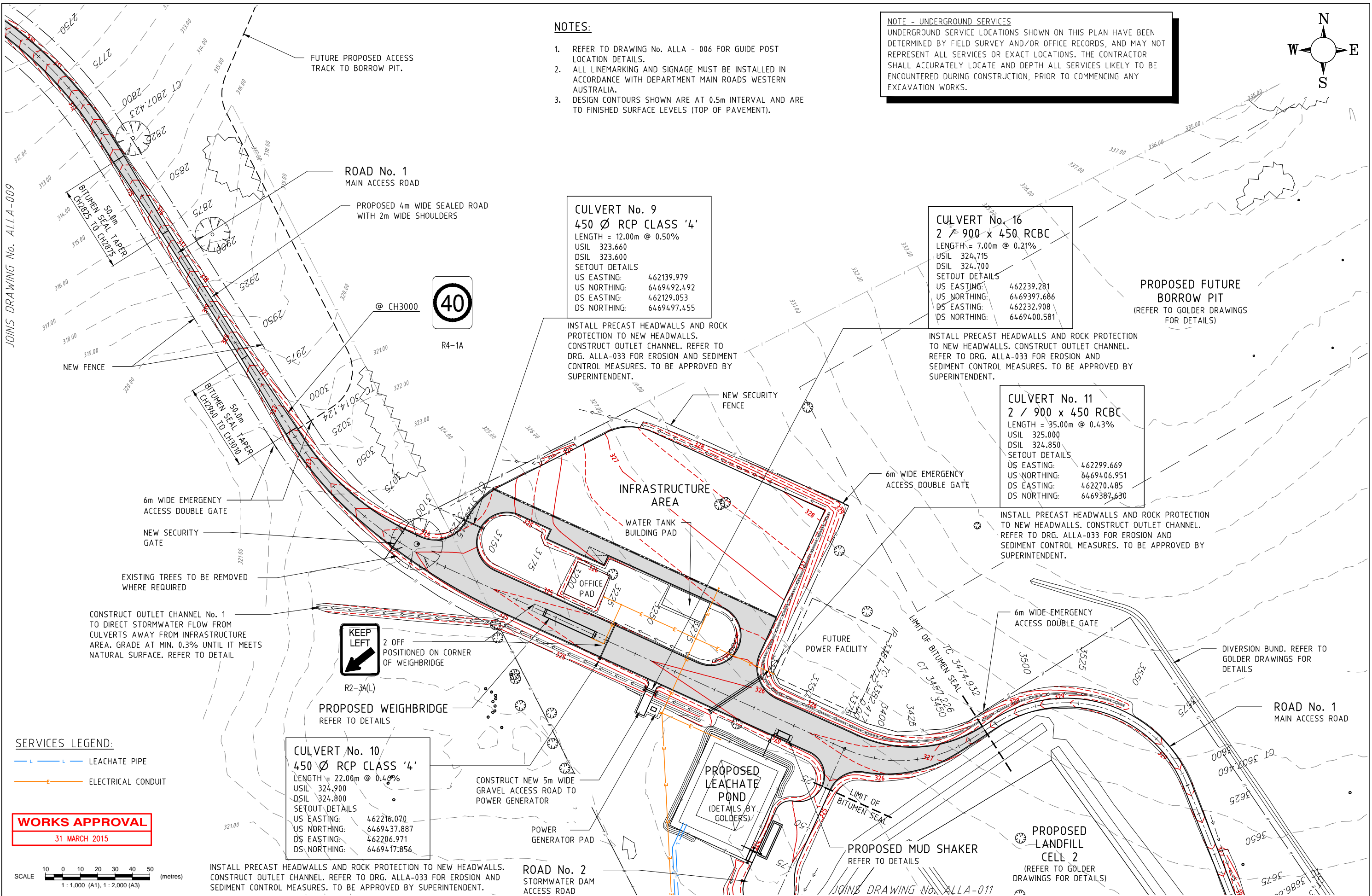


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Client			
SITA Australia			
Date	Scale	Design By	Drawn By
31/03/15	1:1,000	B.W.B.	S.B.Y.

Location	
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans	
Project	
Allawuna Farm Landfill	

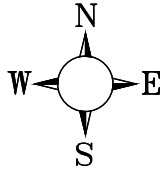
Drawing Title		
Roadworks & Drainage Layout - Plan 4		
Drawing Number	Revision	Drawing Size
ALLA - 009	C	A1



NOTES:

- 1. REFER TO DRAWING No. ALLA - 006 FOR GUIDE POST LOCATION DETAILS.
- 2. ALL LINEMARKING AND SIGNAGE MUST BE INSTALLED IN ACCORDANCE WITH DEPARTMENT MAIN ROADS WESTERN AUSTRALIA.
- 3. DESIGN CONTOURS SHOWN ARE AT 0.5m INTERVAL AND ARE TO FINISHED SURFACE LEVELS (TOP OF PAVEMENT).

NOTE - UNDERGROUND SERVICES
UNDERGROUND SERVICE LOCATIONS SHOWN ON THIS PLAN HAVE BEEN DETERMINED BY FIELD SURVEY AND/OR OFFICE RECORDS, AND MAY NOT REPRESENT ALL SERVICES OR EXACT LOCATIONS. THE CONTRACTOR SHALL ACCURATELY LOCATE AND DEPTH ALL SERVICES LIKELY TO BE ENCOUNTERED DURING CONSTRUCTION, PRIOR TO COMMENCING ANY EXCAVATION WORKS.



CULVERT No. 9
450 Ø RCP CLASS '4'
LENGTH = 12.00m @ 0.50%
USIL 323.660
DSIL 323.600
SETOUT DETAILS
US EASTING: 462139.979
US NORTHING: 6469492.492
DS EASTING: 462129.053
DS NORTHING: 6469497.455

INSTALL PRECAST HEADWALLS AND ROCK PROTECTION TO NEW HEADWALLS. CONSTRUCT OUTLET CHANNEL. REFER TO DRG. ALLA-033 FOR EROSION AND SEDIMENT CONTROL MEASURES. TO BE APPROVED BY SUPERINTENDENT.

CULVERT No. 16
2 / 900 x 450 RCBC
LENGTH = 7.00m @ 0.21%
USIL 324.715
DSIL 324.700
SETOUT DETAILS
US EASTING: 462239.281
US NORTHING: 6469397.686
DS EASTING: 462232.908
DS NORTHING: 6469400.581

INSTALL PRECAST HEADWALLS AND ROCK PROTECTION TO NEW HEADWALLS. CONSTRUCT OUTLET CHANNEL. REFER TO DRG. ALLA-033 FOR EROSION AND SEDIMENT CONTROL MEASURES. TO BE APPROVED BY SUPERINTENDENT.

CULVERT No. 11
2 / 900 x 450 RCBC
LENGTH = 35.00m @ 0.43%
USIL 325.000
DSIL 324.850
SETOUT DETAILS
US EASTING: 462299.669
US NORTHING: 6469406.951
DS EASTING: 462270.485
DS NORTHING: 6469387.630

INSTALL PRECAST HEADWALLS AND ROCK PROTECTION TO NEW HEADWALLS. CONSTRUCT OUTLET CHANNEL. REFER TO DRG. ALLA-033 FOR EROSION AND SEDIMENT CONTROL MEASURES. TO BE APPROVED BY SUPERINTENDENT.

CULVERT No. 10
450 Ø RCP CLASS '4'
LENGTH = 22.00m @ 0.46%
USIL 324.900
DSIL 324.800
SETOUT DETAILS
US EASTING: 462216.070
US NORTHING: 6469437.887
DS EASTING: 462206.971
DS NORTHING: 6469417.856

INSTALL PRECAST HEADWALLS AND ROCK PROTECTION TO NEW HEADWALLS. CONSTRUCT OUTLET CHANNEL. REFER TO DRG. ALLA-033 FOR EROSION AND SEDIMENT CONTROL MEASURES. TO BE APPROVED BY SUPERINTENDENT.

ROAD No. 2
STORMWATER DAM ACCESS ROAD

SERVICES LEGEND:
— L — L — LEACHATE PIPE
— E — ELECTRICAL CONDUIT

WORKS APPROVAL
31 MARCH 2015

SCALE 10 0 10 20 30 40 50 (metres)
1 : 1,000 (A1), 1 : 2,000 (A3)



Bowman and Associates Pty Ltd

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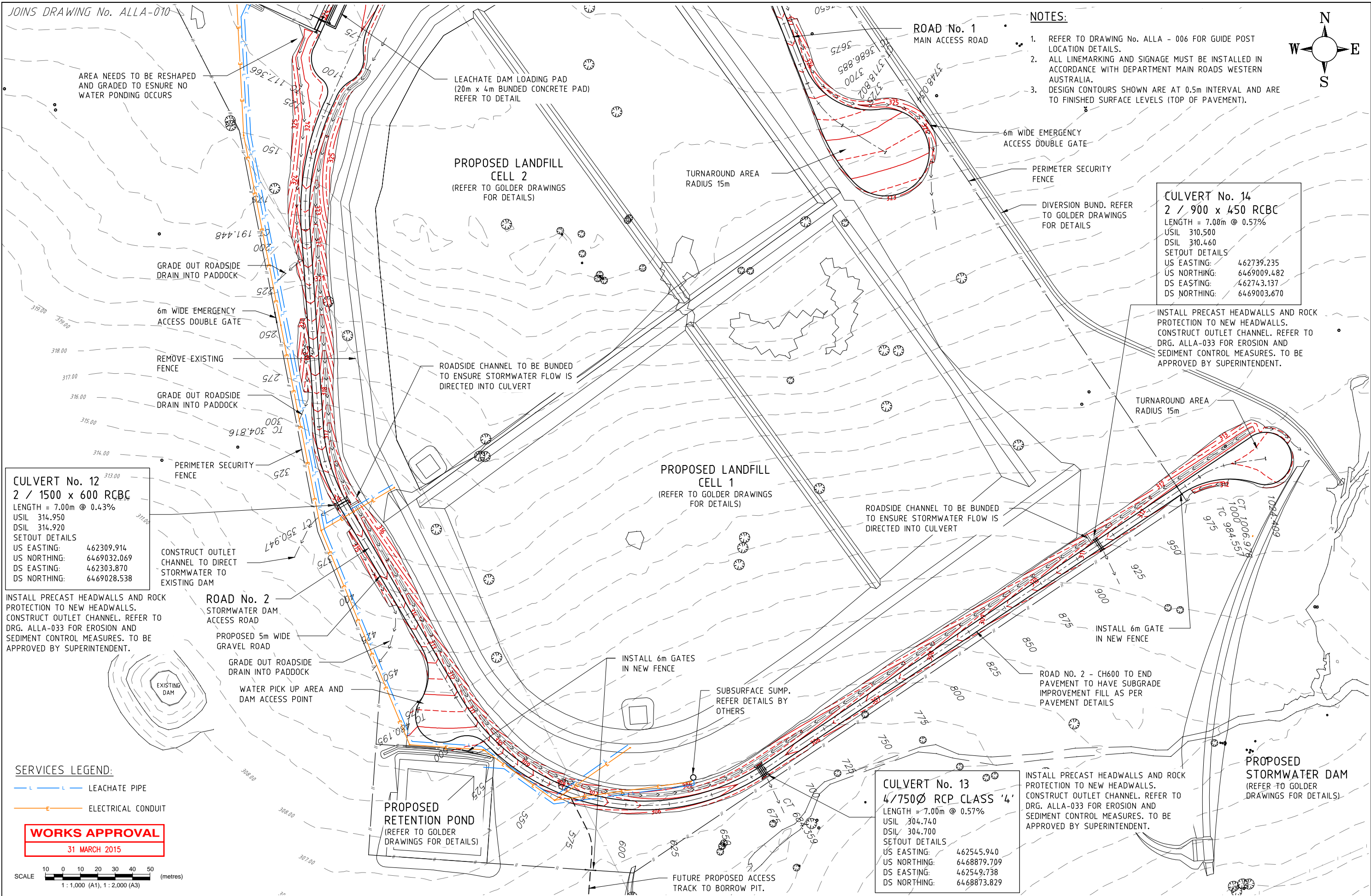
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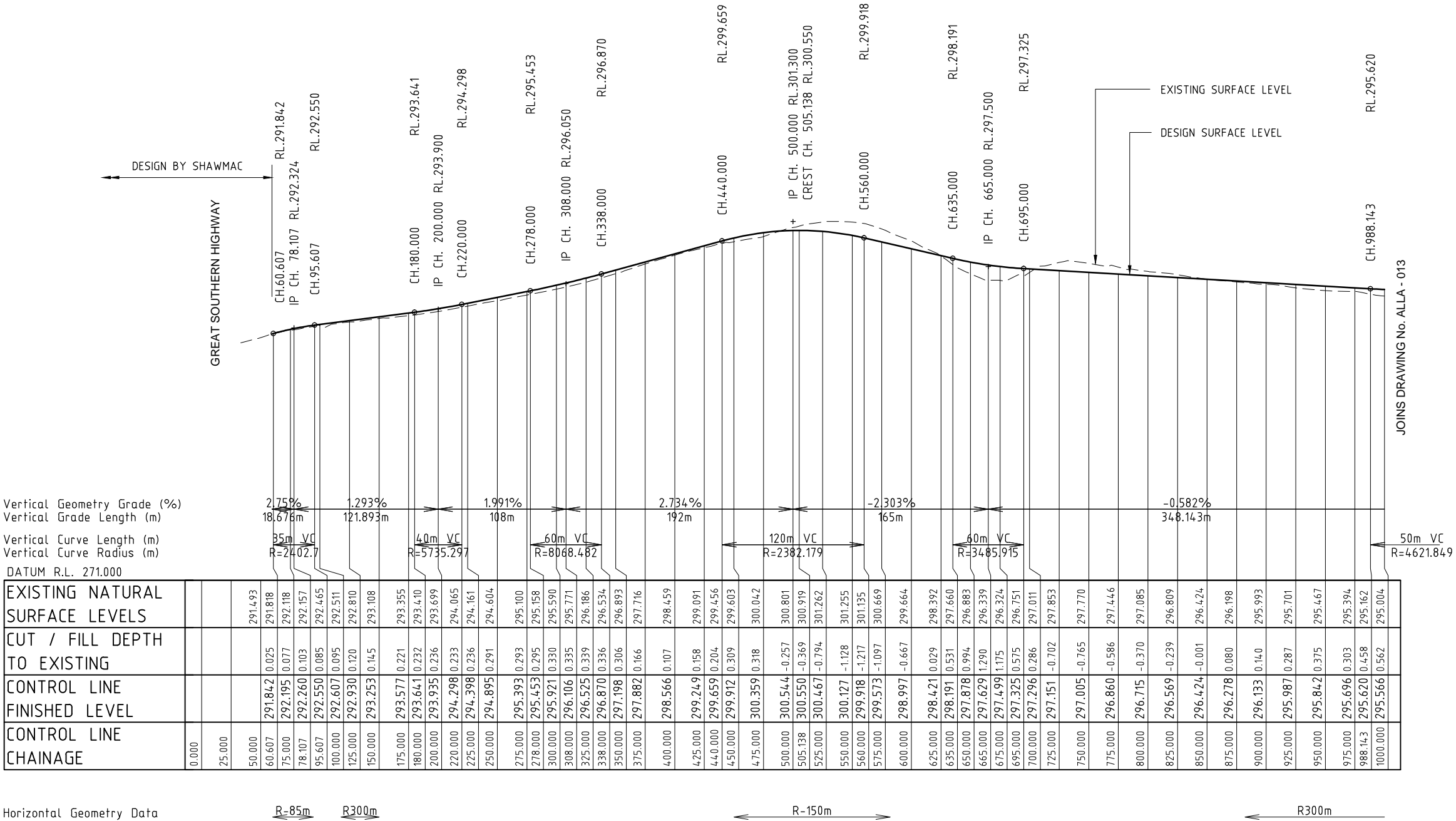
Client			
SITA Australia			
Date	Scale	Design By	Drawn By
31/03/15	1:1,000	B.W.B.	S.B.Y.

Location	
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans	
Project	
Allawuna Farm Landfill	

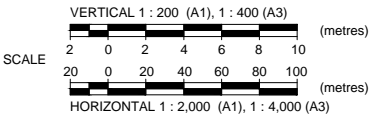
Drawing Title		
Roadworks & Drainage Layout - Plan 5		
Drawing Number	Revision	Drawing Size
ALLA - 010	C	A1



 Bowman and Associates Pty Ltd ABN: 22 112 399 514 Mail: PO Box 2059, Rossmoyn WA 6148 Office: 8/640 Beeliar Drive, Success WA 6164 Phone: (08) 9414 9670 Web: www.bowmanassociates.com.au	Client SITA Australia				Location Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans				Drawing Title Roadworks & Drainage Layout - Plan 6		
	Date 31/03/15	Scale 1:1,000	Design By B.W.B.	Drawn By S.B.Y.	Project Allawuna Farm Landfill				Drawing Number ALLA - 011	Revision C	Drawing Size A1



MAIN ACCESS ROAD
ROAD No. 1 LONGITUDINAL SECTION - CH 00 TO CH 1000
SCALE H 1 : 2,000
V 1 : 200



WORKS APPROVAL
31 MARCH 2015



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Client

SITA Australia

Date

31/03/15

Scale

as shown

Design By

B.W.B.

Drawn By

S.B.Y.

Location

Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans

Project

Allawuna Farm Landfill

Drawing Title

Road No.1 Long Section - Sheet 1 of 4

Drawing Number

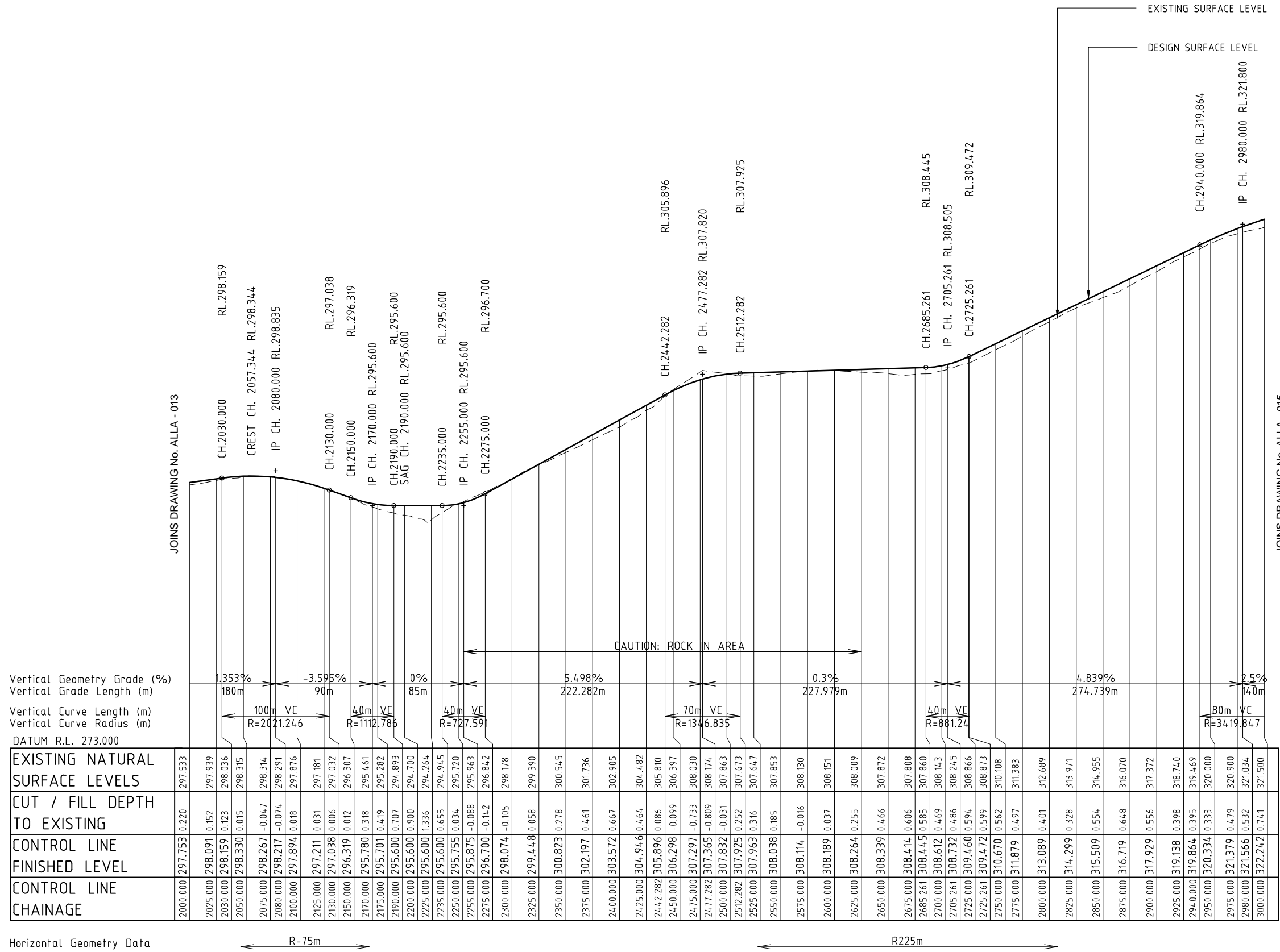
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Revision

C

Drawing Size

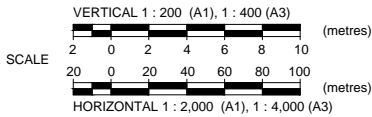
A1



WORKS APPROVAL

31 MARCH 2015

MAIN ACCESS ROAD
ROAD No. 1 LONGITUDINAL SECTION - CH 2000 TO CH 3000
SCALE H 1 : 2,000
V 1 : 200





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Success WA 6164

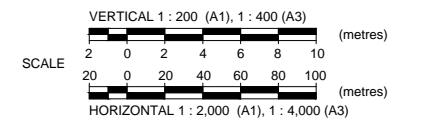
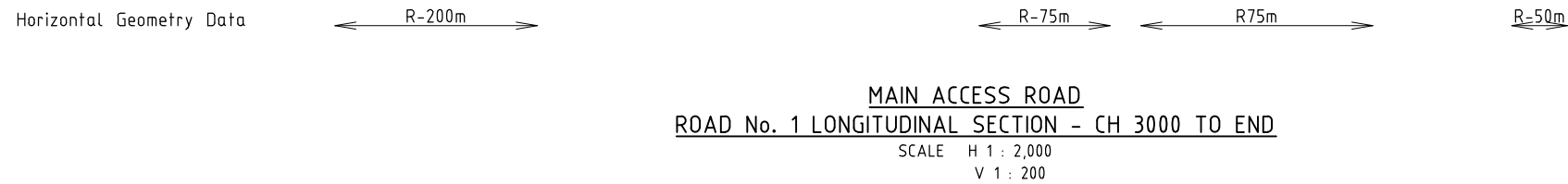
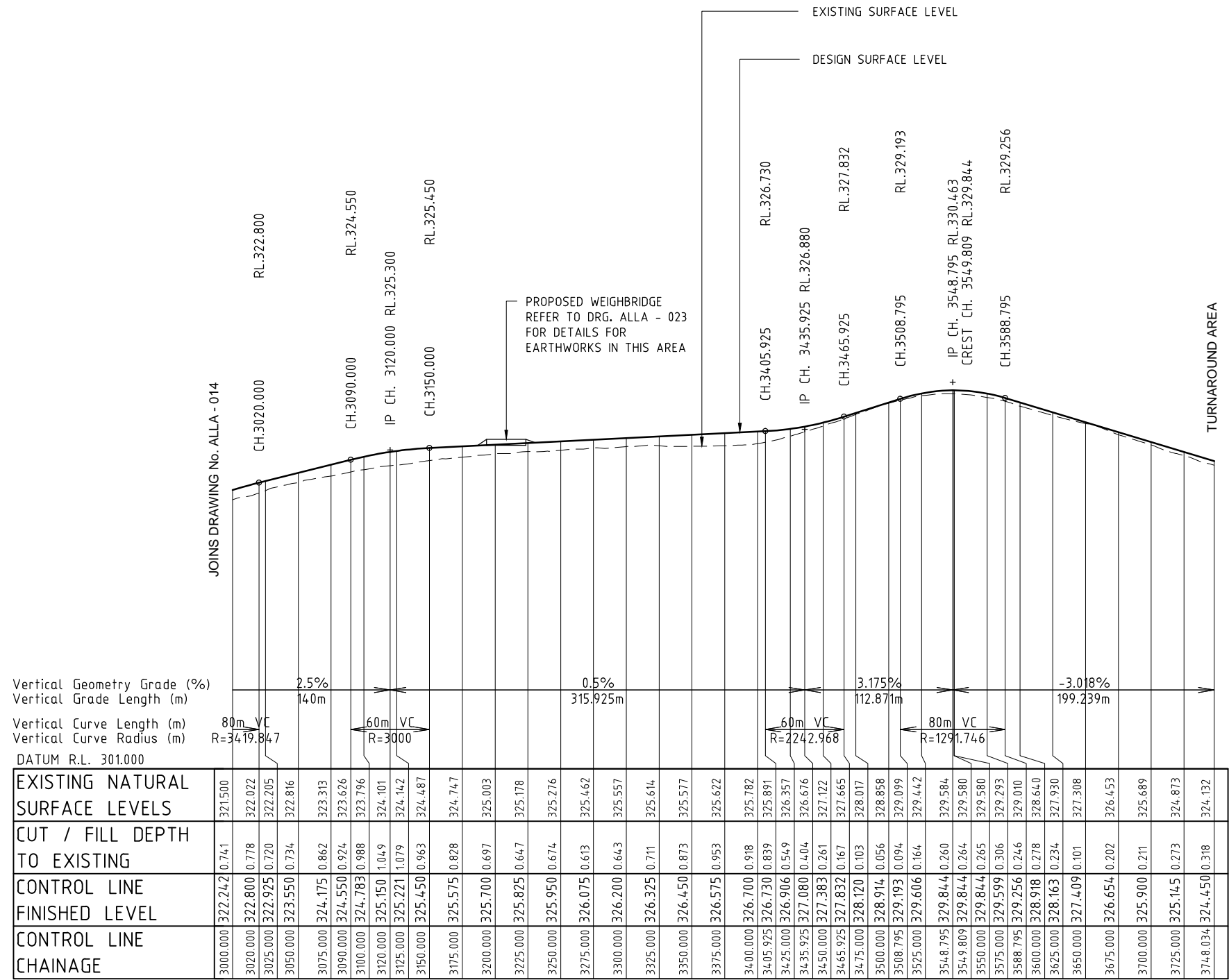
Phone: (08) 9414 9670

Web: www.bowmanassociates.com.au

Client			
SITA Australia			
Date	Scale	Design By	Drawn By
31/03/15	as shown	B.W.B.	S.B.Y.

Location
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans
Project
Allawuna Farm Landfill

Drawing Title		
Road No.1 Long Section - Sheet 3 of 4		
Drawing Number	Revision	Drawing Size
ALLA - 014	C	A1



WORKS APPROVAL

31 MARCH 2015



Bowman and Associates Pty Ltd

ABN: 22 112 399 514

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Client

SITA Australia

Date

31/03/15

Scale

as shown

Design By

B.W.B.

Drawn By

S.B.Y.

Location

Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans

Project

Allawuna Farm Landfill

Drawing Title

Road No.1 Long Section - Sheet 4 of 4

Drawing Number

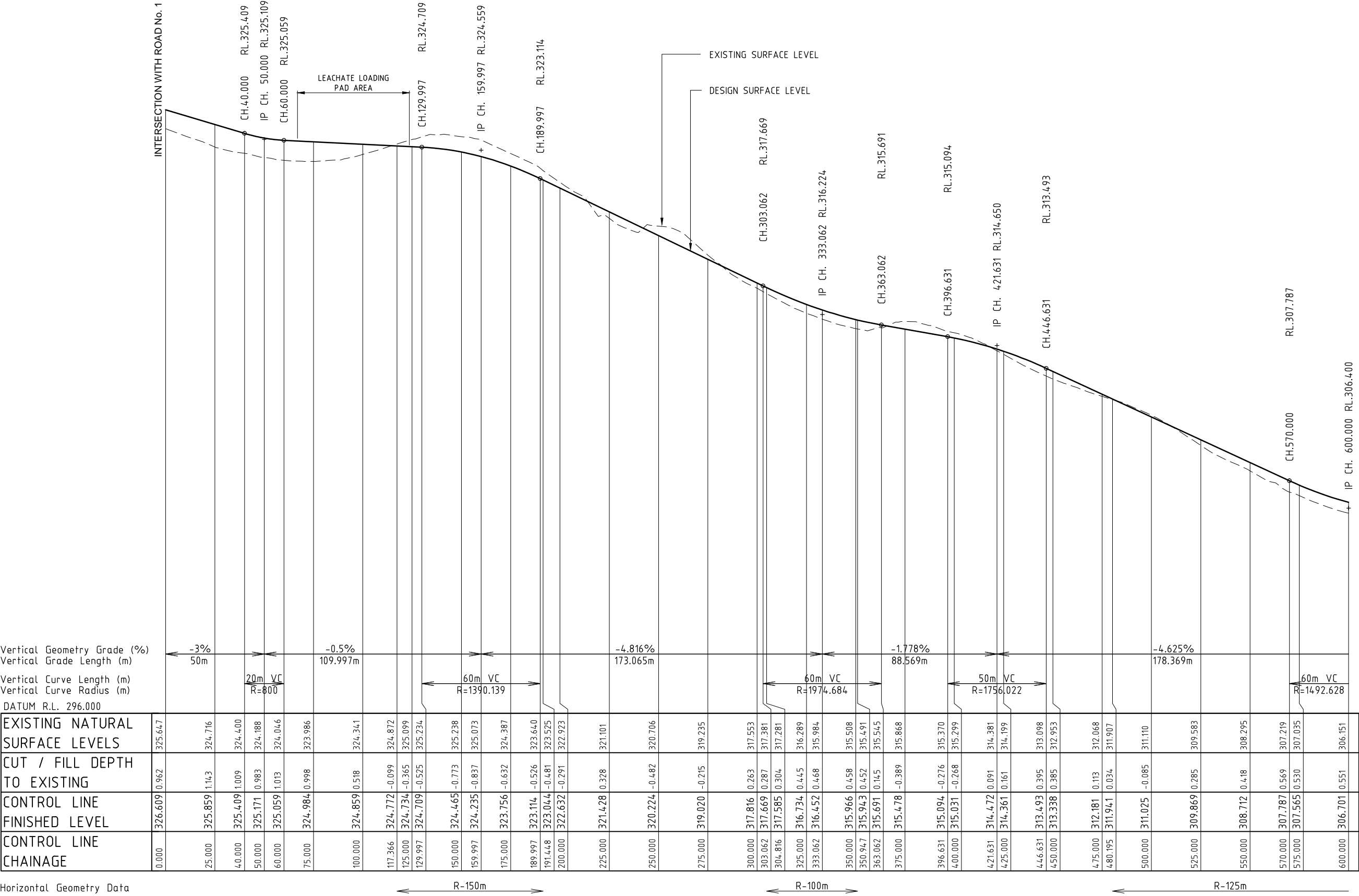
ALLA - 015

Revision

C

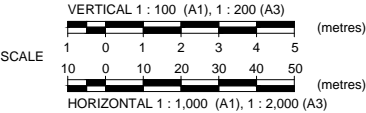
Drawing Size

A1



WORKS APPROVAL
31 MARCH 2015

STORMWATER DAM ACCESS ROAD
ROAD No. 2 LONGITUDINAL SECTION - CH 00 TO CH 600
SCALE H 1 : 1,000
V 1 : 100





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Rossmoyne WA 6148

Office: 8/640 Beeliar Drive,
Success WA 6164

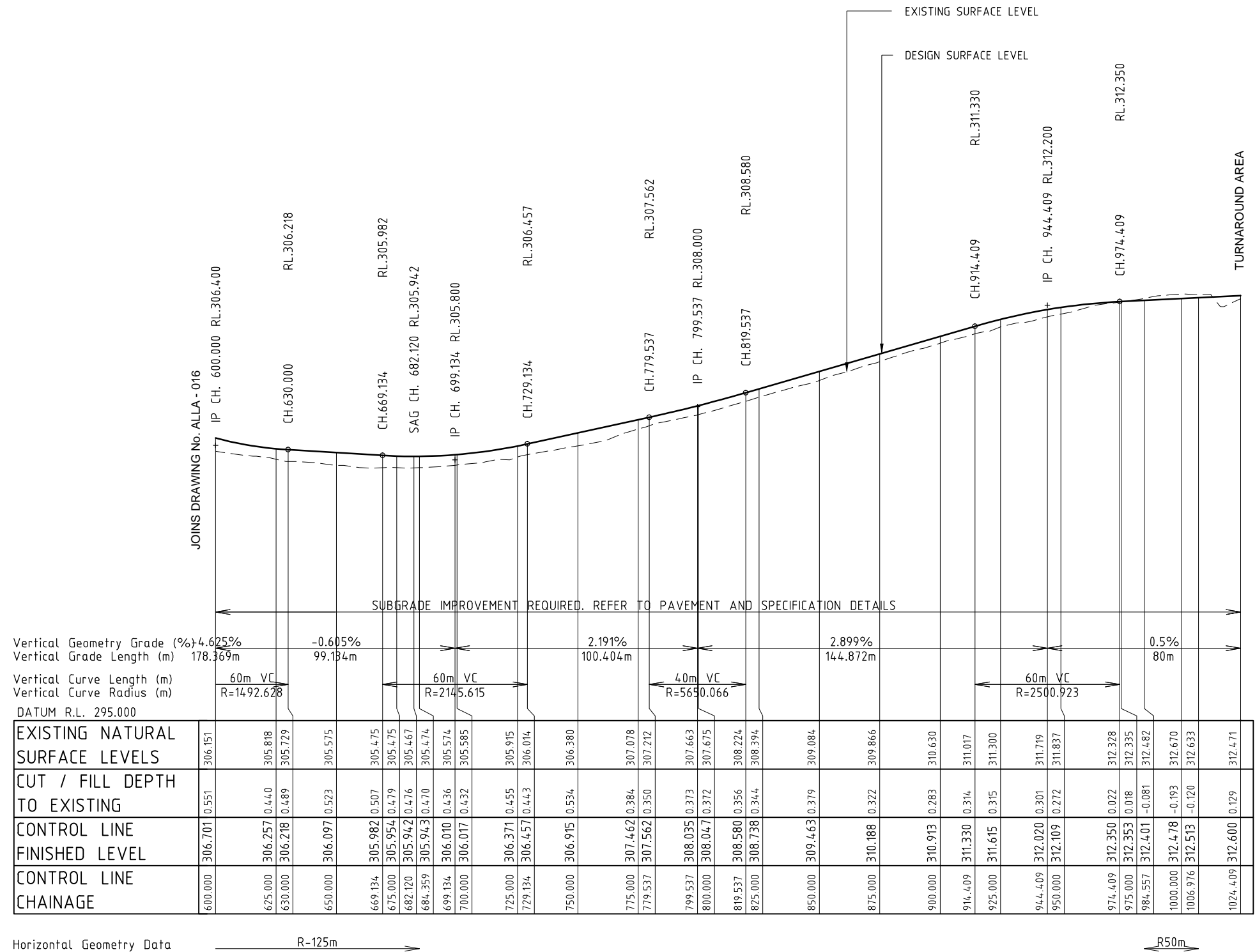
Phone: (08) 9414 9670

Web: www.bowmanassociates.com.au

Client			
SITA Australia			
Date	Scale	Design By	Drawn By
31/03/15	as shown	B.W.B.	S.B.Y.

Location	
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans	
Project	
Allawuna Farm Landfill	

Drawing Title		
Road No.2 Long Section - Sheet 1 of 2		
Drawing Number	Revision	Drawing Size
ALLA - 016	C	A1



WORKS APPROVAL

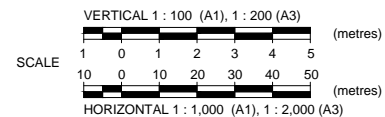
31 MARCH 2015

STORMWATER DAM ACCESS ROAD

ROAD No. 2 LONGITUDINAL SECTION - CH 600 TO END

SCALE H 1 : 1,000

V 1 : 100



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Client

SITA Australia

Date

31/03/15

Scale

as shown

Design By

B.W.B.

Drawn By

S.B.Y.

Location

Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans

Project

Allawuna Farm Landfill

Drawing Title

Road No.2 Long Section - Sheet 2 of 2

Drawing Number

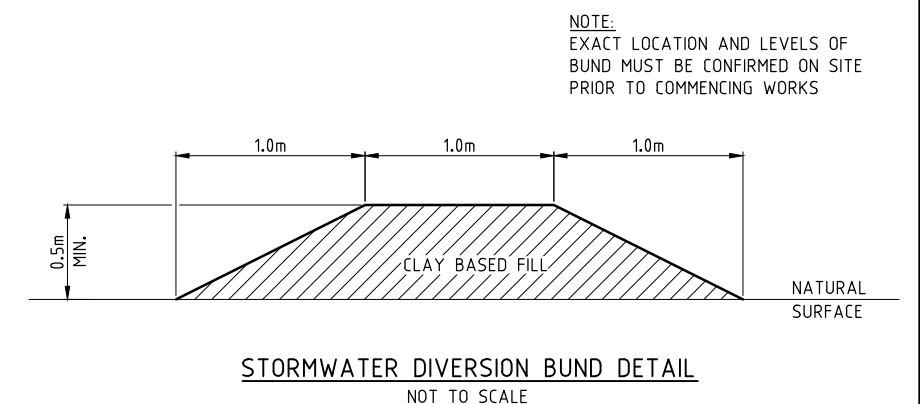
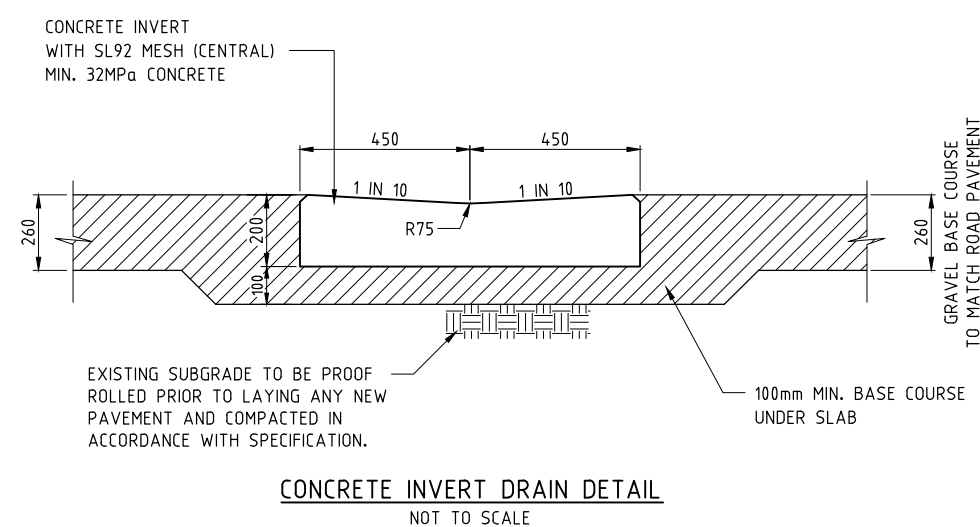
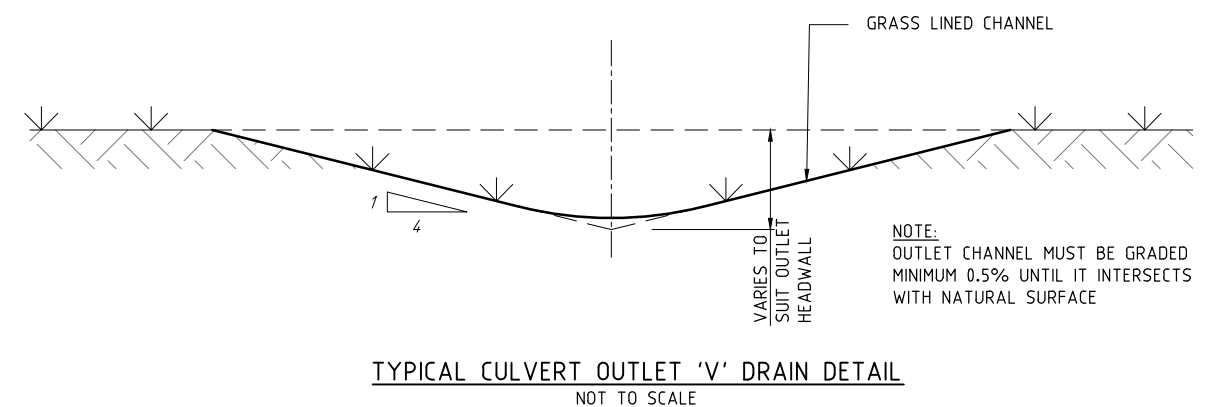
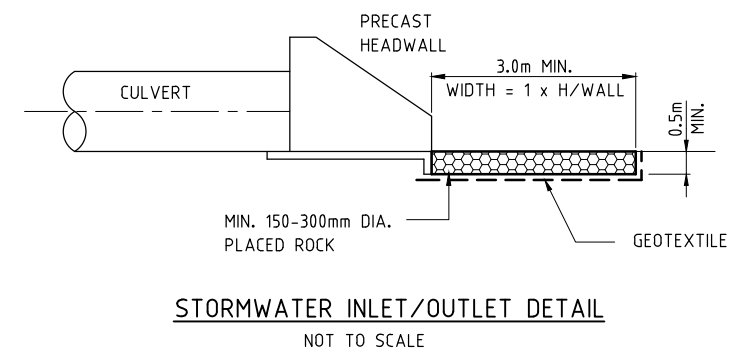
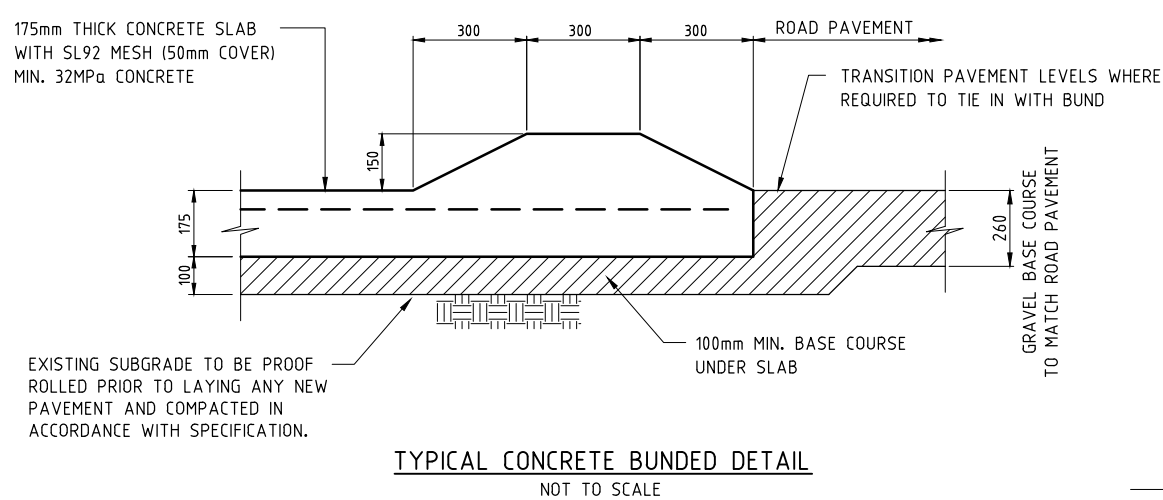
ALLA - 017

Revision

C

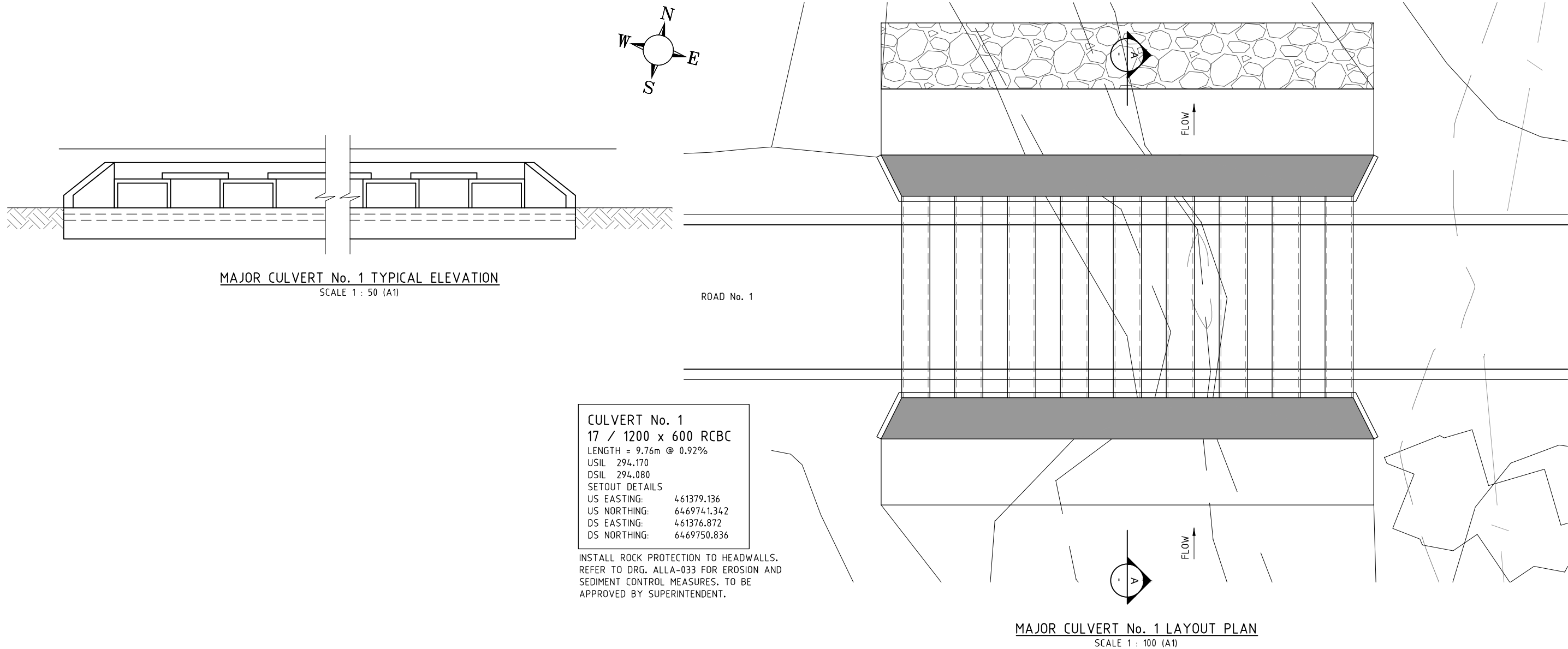
Drawing Size

A1



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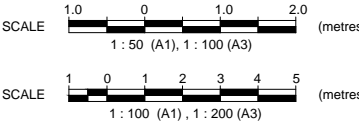
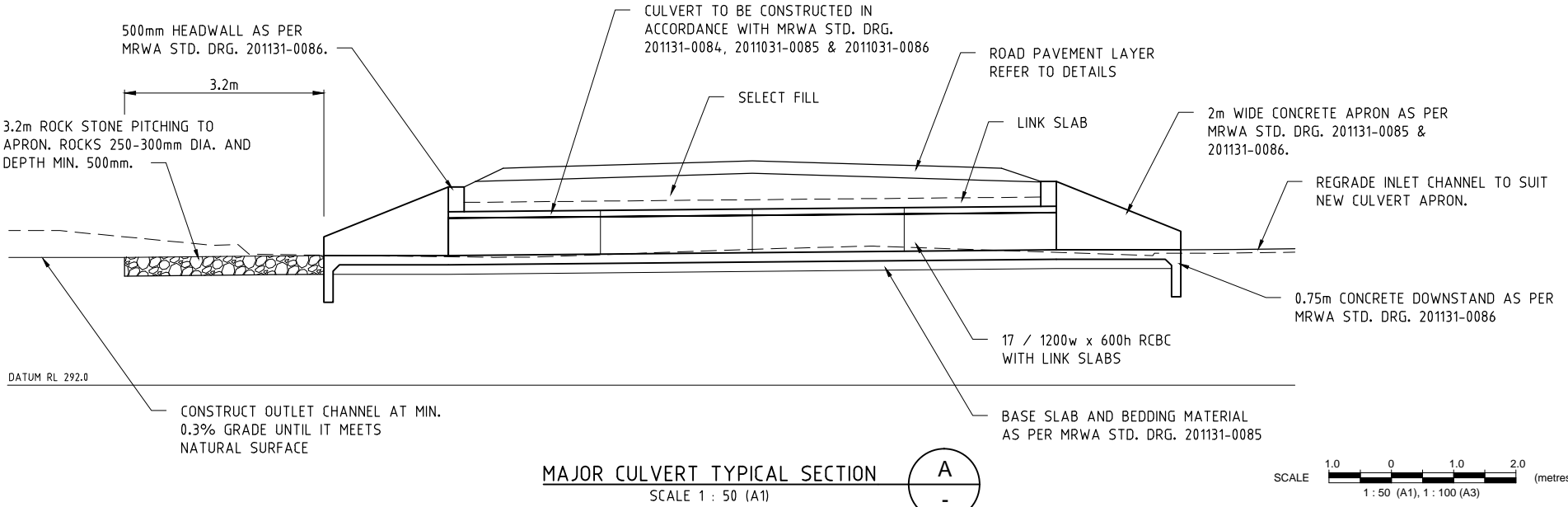
Client				Location		Drawing Title			
SITA Australia				Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans		Miscellaneous Details			
Date	Scale	Design By	Drawn By	Project		Drawing Number		Revision	Drawing Size
31/03/15	N.T.S.	B.W.B.	S.B.Y.	Allawuna Farm Landfill		ALLA - 018		C	A1



NOTE:
ALL SETOUT MUST BE CONFIRMED ON SITE
PRIOR TO COMMENCING CONSTRUCTION

NOTE - UNDERGROUND SERVICES
UNDERGROUND SERVICE LOCATIONS SHOWN ON THIS PLAN HAVE BEEN
DETERMINED BY FIELD SURVEY AND/OR OFFICE RECORDS, AND MAY NOT
REPRESENT ALL SERVICES OR EXACT LOCATIONS. THE CONTRACTOR
SHALL ACCURATELY LOCATE AND DEPTH ALL SERVICES LIKELY TO BE
ENCOUNTERED DURING CONSTRUCTION, PRIOR TO COMMENCING ANY
EXCAVATION WORKS.

WORKS APPROVAL
31 MARCH 2015

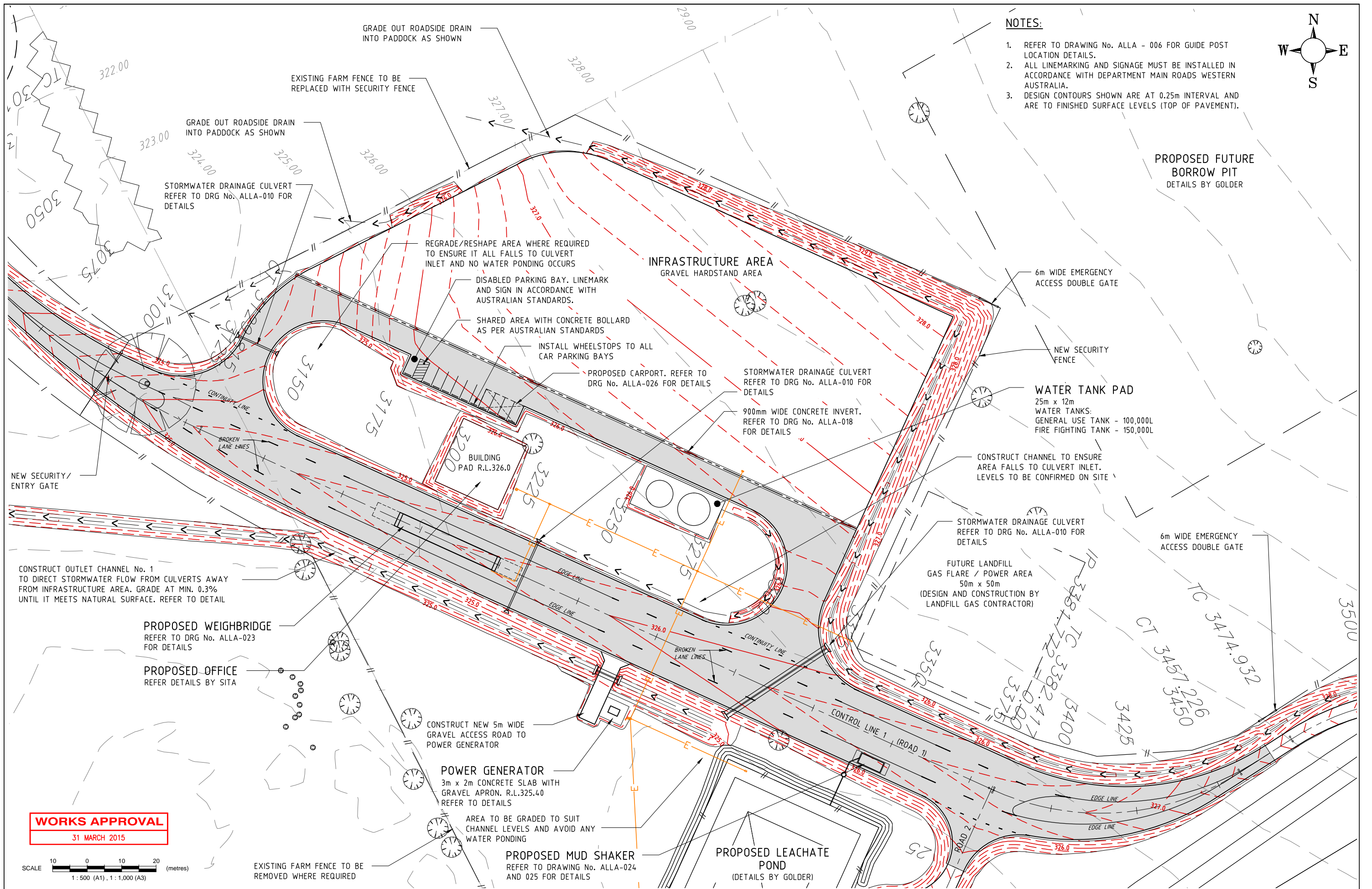


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Web: www.bowmanassociates.com.au

Client			
SITA Australia			
Date	Scale	Design By	Drawn By
31/03/15	1 : 100	B.W.B.	S.B.Y.

Location	
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans	
Project	
Allawuna Farm Landfill	

Drawing Title		
Culvert No.1 Layout Plan and Details		
Drawing Number	Revision	Drawing Size
ALLA - 019	C	A1



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Client

SITA Australia

Date

31/03/15

Scale

1 : 500

Design By

B.W.B.

Drawn By

S.B.Y.

Location

Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans

Project

Allawuna Farm Landfill

Drawing Title

Infrastructure Area Layout Plan

Drawing Number

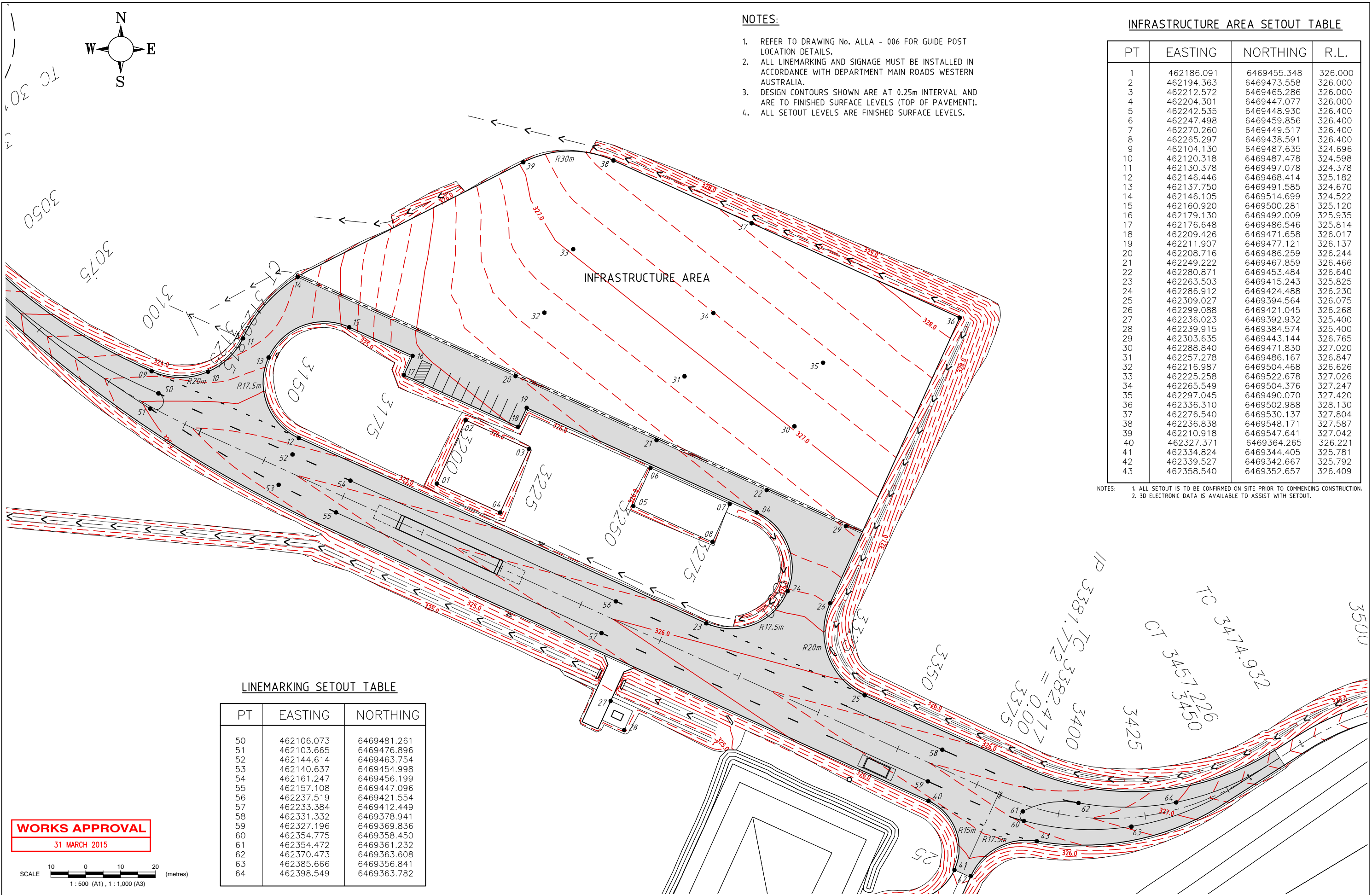
ALLA - 020

Revision

C

Drawing Size


A1



1. REFER TO DRAWING No. ALLA - 006 FOR GUIDE POST LOCATION DETAILS.
2. ALL LINEMARKING AND SIGNAGE MUST BE INSTALLED IN ACCORDANCE WITH DEPARTMENT MAIN ROADS WESTERN AUSTRALIA.
3. DESIGN CONTOURS SHOWN ARE AT 0.25m INTERVAL AND ARE TO FINISHED SURFACE LEVELS (TOP OF PAVEMENT).
4. ALL SETOUT LEVELS ARE FINISHED SURFACE LEVELS.

PT	EASTING	NORTHING	R.L.
1	462186.091	6469455.348	326.000
2	462194.363	6469473.558	326.000
3	462212.572	6469465.286	326.000
4	462204.301	6469447.077	326.000
5	462242.535	6469448.930	326.400
6	462247.498	6469459.856	326.400
7	462270.260	6469449.517	326.400
8	462265.297	6469438.591	326.400
9	462104.130	6469487.635	324.696
10	462120.318	6469487.478	324.598
11	462130.378	6469497.078	324.378
12	462146.446	6469468.414	325.182
13	462137.750	6469491.585	324.670
14	462146.105	6469514.699	324.522
15	462160.920	6469500.281	325.120
16	462179.130	6469492.009	325.935
17	462176.648	6469486.546	325.814
18	462209.426	6469471.658	326.017
19	462211.907	6469477.121	326.137
20	462208.716	6469486.259	326.244
21	462249.222	6469467.859	326.466
22	462280.871	6469453.484	326.640
23	462263.503	6469415.243	325.825
24	462286.912	6469424.488	326.230
25	462309.027	6469394.564	326.075
26	462299.088	6469421.045	326.268
27	462236.023	6469392.932	325.400
28	462239.915	6469384.574	325.400
29	462303.635	6469443.144	326.765
30	462288.840	6469471.830	327.020
31	462257.278	6469486.167	326.847
32	462216.987	6469504.468	326.626
33	462225.258	6469522.678	327.026
34	462265.549	6469504.376	327.247
35	462297.045	6469490.070	327.420
36	462336.310	6469502.988	328.130
37	462276.540	6469530.137	327.804
38	462236.838	6469548.171	327.587
39	462210.918	6469547.641	327.042
40	462327.371	6469364.265	326.221
41	462334.824	6469344.405	325.781
42	462339.527	6469342.667	325.792
43	462358.540	6469352.657	326.409

PT	EASTING	NORTHING
50	462106.073	6469481.261
51	462103.665	6469476.896
52	462144.614	6469463.754
53	462140.637	6469454.998
54	462161.247	6469456.199
55	462157.108	6469447.096
56	462237.519	6469421.554
57	462233.384	6469412.449
58	462331.332	6469378.941
59	462327.196	6469369.836
60	462354.775	6469358.450
61	462354.472	6469361.232
62	462370.473	6469363.608
63	462385.666	6469356.841
64	462398.549	6469363.782

SCALE  (metres)
1 : 500 (A1), 1 : 1,000 (A3)



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SITA Australia

Drawn By

31/03/15

1 : 500

B.W.B.

S.B.Y.

Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans

Project

Allawuna Farm Landfill

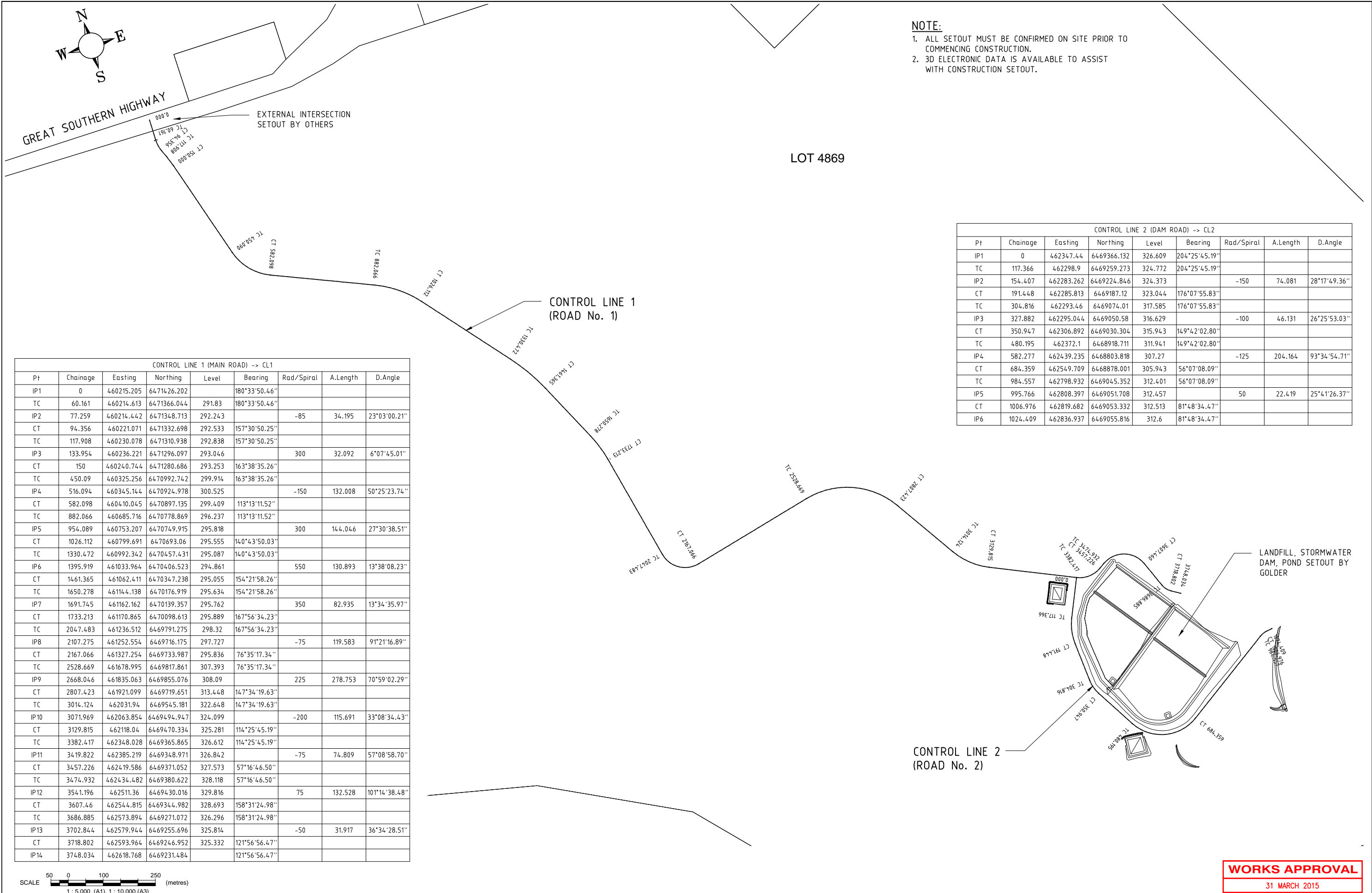
Infrastructure Area Setout Plan


Drawing Size

ALLA - 021

C

A1





Bowman and Associates Pty Ltd

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Rossmoyne WA 6148

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Success WA 6164

Web: www.bowmanassociates.com.au

Client

SITA Australia

Date

31/03/15

Scale

1 : 5000

Design By

B.W.B.

Drawn By

S.B.Y.

Location

Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans

Project

Allawuna Farm Landfill

Drawing Title

Control Line Setout Plan

Drawing Number

ALLA - 022

Revision

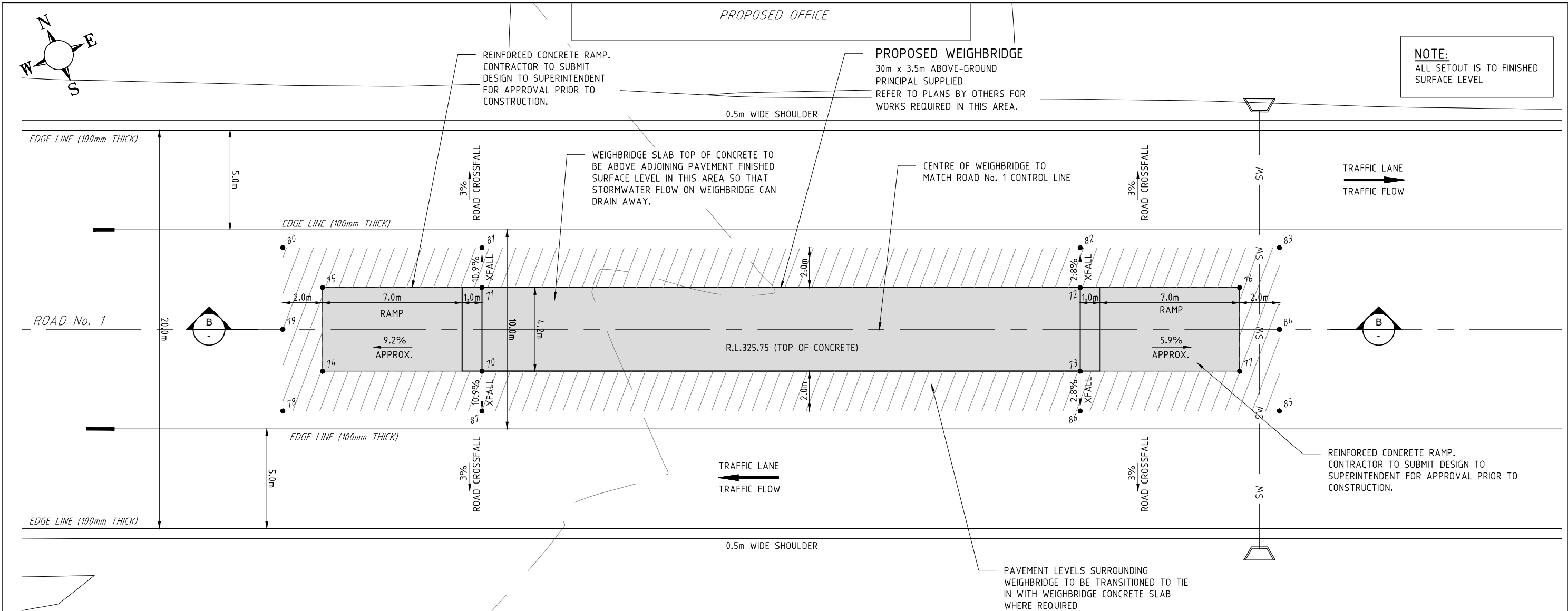
C

Drawing Size

A1

WORKS APPROVAL

31 MARCH 2015



WEIGHBRIDGE LAYOUT PLAN
SCALE 1 : 100 (A1)

STANDARD DRAWINGS - METTLER TOLEDO PTY LTD

932293 FOUNDATION SPECIFICATION
937106 FOUNDATION LAYOUT
937107 DECK POURING DETAILS
937384 WEIGHBRIDGE RAMP
937783 GENERAL LAYOUT PLAN

WEIGHBRIDGE NOTES:

- CONDUIT SHOULD BE AS STRAIGHT AS POSSIBLE (USE LARGE RADIUS BENDS, NOT ELBOWS) & BE FREE FROM SHARP EDGES & BURRS. CONDUIT NOT TO BE USED FOR ANY OTHER CABLES.
- END CORNERS OF FOUNDATION TO BE FREE OF ANY EXCESS CONCRETE.
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH METTLER TOLEDO WEIGHBRIDGE FOUNDATION SPECIFICATION No 932293.
- THIS FOUNDATION HAS BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING CAPACITY OF NOT LESS THAN 80 kPa FOR CLAY TYPE SUB-GRADE & NOT LESS THAN 100 kPa FOR SAND CONDITIONS. ALLOWABLE BEARING CAPACITY MUST BE APPROVED BY A QUALIFIED ENGINEER.
- INSIDE SURFACES OF ALL FOUNDATION POCKETS TO BE KEPT FREE FROM ANY CURING COMPOUNDS REFER FOUNDATION SPECIFICATION SHEET 932293 PART 5.3 (B).

NOTES:

- REFER TO DRAWING No. ALLA - 006 FOR GUIDE POST LOCATION DETAILS.
- ALL LINEMARKING AND SIGNAGE MUST BE INSTALLED IN ACCORDANCE WITH DEPARTMENT MAIN ROADS WESTERN AUSTRALIA.
- ALL SETOUT POINT LEVELS ARE FINISHED SURFACE LEVELS (TOP OF PAVEMENT).

SECTION

SCALE 1 : 100 (A1)



WORKS APPROVAL

31 MARCH 2015

WEIGHBRIDGE SETOUT TABLE

PT	EASTING	NORTHING	R.L.
70	462175.114	6469442.102	325.750
71	462176.851	6469445.926	325.750
72	462204.195	6469433.505	325.750
73	462202.458	6469429.682	325.750
74	462167.830	6469445.410	325.564
75	462169.567	6469449.234	325.564
76	462211.478	6469430.197	325.794
77	462209.741	6469426.373	325.794
ADJACENT PAVEMENT LEVELS			
78	462165.182	6469444.417	325.494
79	462166.878	6469448.149	325.617
80	462168.574	6469451.882	325.494
81	462177.678	6469447.747	325.544
82	462205.022	6469435.326	325.694
83	462214.126	6469431.191	325.744
84	462212.431	6469427.458	325.867
85	462210.735	6469423.725	325.744
86	462201.630	6469427.861	325.694
87	462174.287	6469440.281	325.544

NOTES:
1. ALL SETOUT IS TO BE CONFIRMED ON SITE PRIOR TO COMMENCING CONSTRUCTION.
2. 3D ELECTRONIC DATA IS AVAILABLE TO ASSIST WITH SETOUT.

SCALE 1 : 100 (A1), 1 : 200 (A3) (metres)

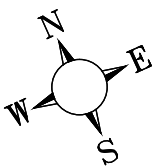
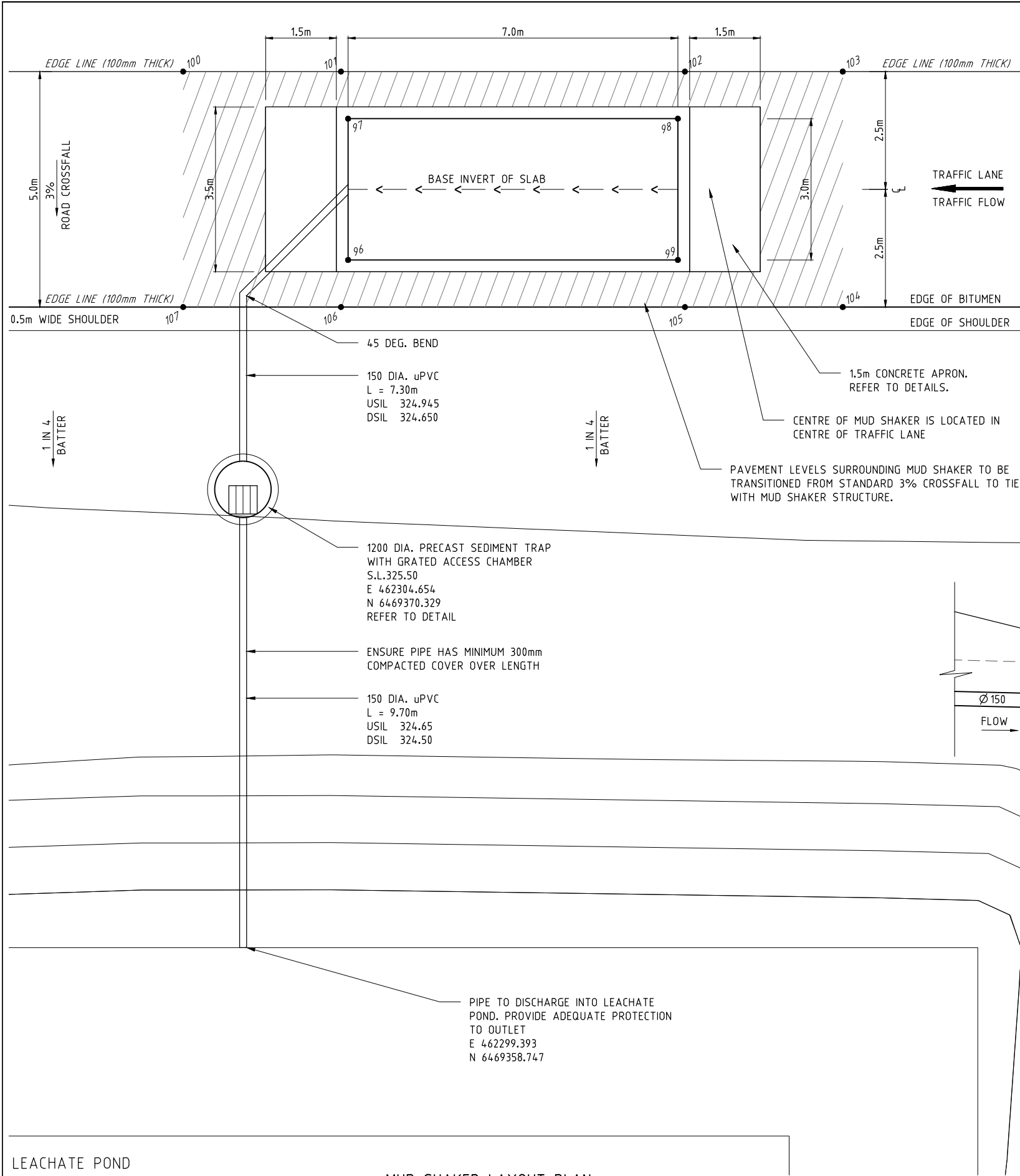


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Web: www.bowmanassociates.com.au

Client			
SITA Australia			
Date	Scale	Design By	Drawn By
31/03/15	1 : 100	B.W.B.	S.B.Y.

Location	
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans	
Project	
Allawuna Farm Landfill	

Drawing Title		
Weighbridge Layout Plan and Details		
Drawing Number	Revision	Drawing Size
ALLA - 023	C	A1



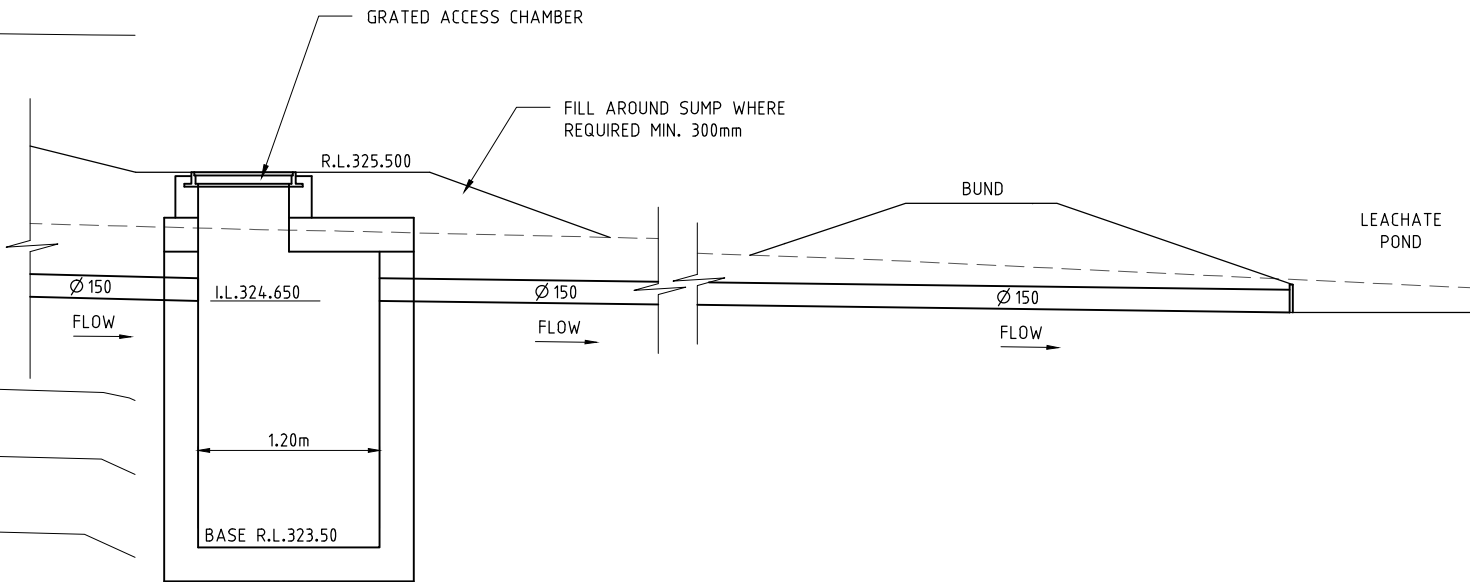
MUD SHAKER SETOUT TABLE

PT	EASTING	NORTHING	R.L.
96	462308.698	6469373.846	326.250
97	462309.939	6469376.577	326.250
98	462316.312	6469373.682	326.250
99	462315.071	6469370.951	326.250
100	462307.166	6469378.935	326.249
101	462310.216	6469377.549	326.266
102	462316.862	6469374.530	326.302
103	462319.912	6469373.145	326.319
104	462317.844	6469368.593	326.169
105	462314.794	6469369.978	326.190
106	462308.148	6469372.997	326.190
107	462305.098	6469374.383	326.099

NOTES: 1. ALL SETOUT IS TO BE CONFIRMED ON SITE PRIOR TO COMMENCING CONSTRUCTION.
2. 3D ELECTRONIC DATA IS AVAILABLE TO ASSIST WITH SETOUT.

NOTES:

- REFER TO DRAWING No. ALLA - 006 FOR GUIDE POST LOCATION DETAILS.
- ALL LINEMARKING AND SIGNAGE MUST BE INSTALLED IN ACCORDANCE WITH DEPARTMENT MAIN ROADS WESTERN AUSTRALIA.
- ALL SETOUT POINT LEVELS ARE FINISHED SURFACE LEVELS (TOP OF PAVEMENT).



SEDIMENT TRAP TYPICAL SECTION

SCALE 1 : 25 (A1)

ENGINEERING CERTIFICATION:

Mark Gier

01/04/15

WORKS APPROVAL

31 MARCH 2015

SCALE 0.5 0 0.5 1.0 (metres)

1 : 25 (A1), 1 : 50 (A3)

SCALE 1.0 0 1.0 2.0 (metres)

1 : 50 (A1), 1 : 100 (A3)

NOTE - UNDERGROUND SERVICES

UNDERGROUND SERVICE LOCATIONS SHOWN ON THIS PLAN HAVE BEEN DETERMINED BY FIELD SURVEY AND/OR OFFICE RECORDS, AND MAY NOT REPRESENT ALL SERVICES OR EXACT LOCATIONS. THE CONTRACTOR SHALL ACCURATELY LOCATE AND DEPTH ALL SERVICES LIKELY TO BE ENCOUNTERED DURING CONSTRUCTION, PRIOR TO COMMENCING ANY EXCAVATION WORKS.

LEACHATE POND
REFER TO DETAILS BY GOLDER

MUD SHAKER LAYOUT PLAN

SCALE 1 : 50 (A1)



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Client

SITA Australia

Date

31/03/15

Scale

1 : 50

Design By

B.W.B.

Drawn By

S.B.Y.

Location

Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans

Project

Allawuna Farm Landfill

Drawing Title

Mud Shaker Grid Layout Plan

Drawing Number

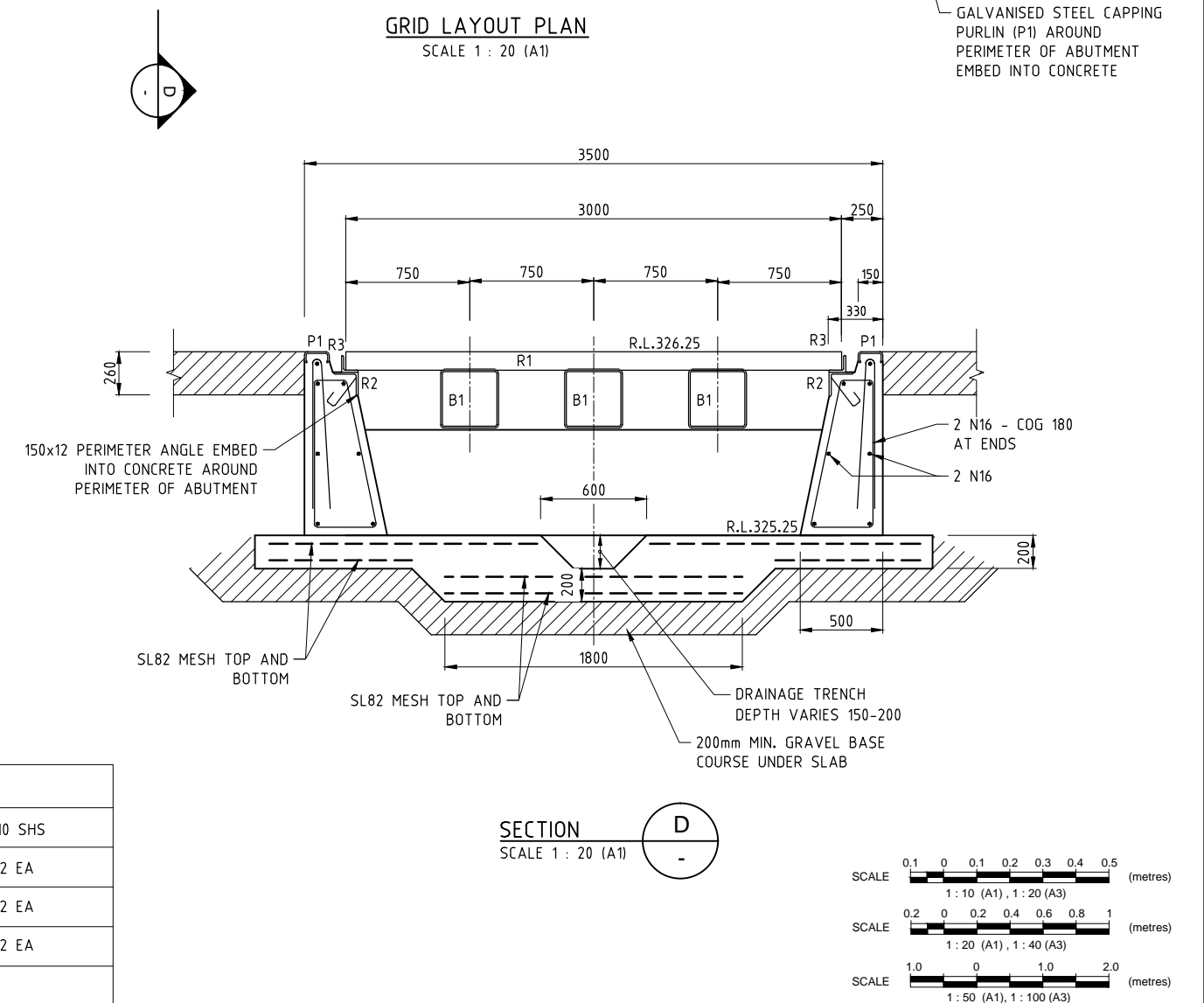
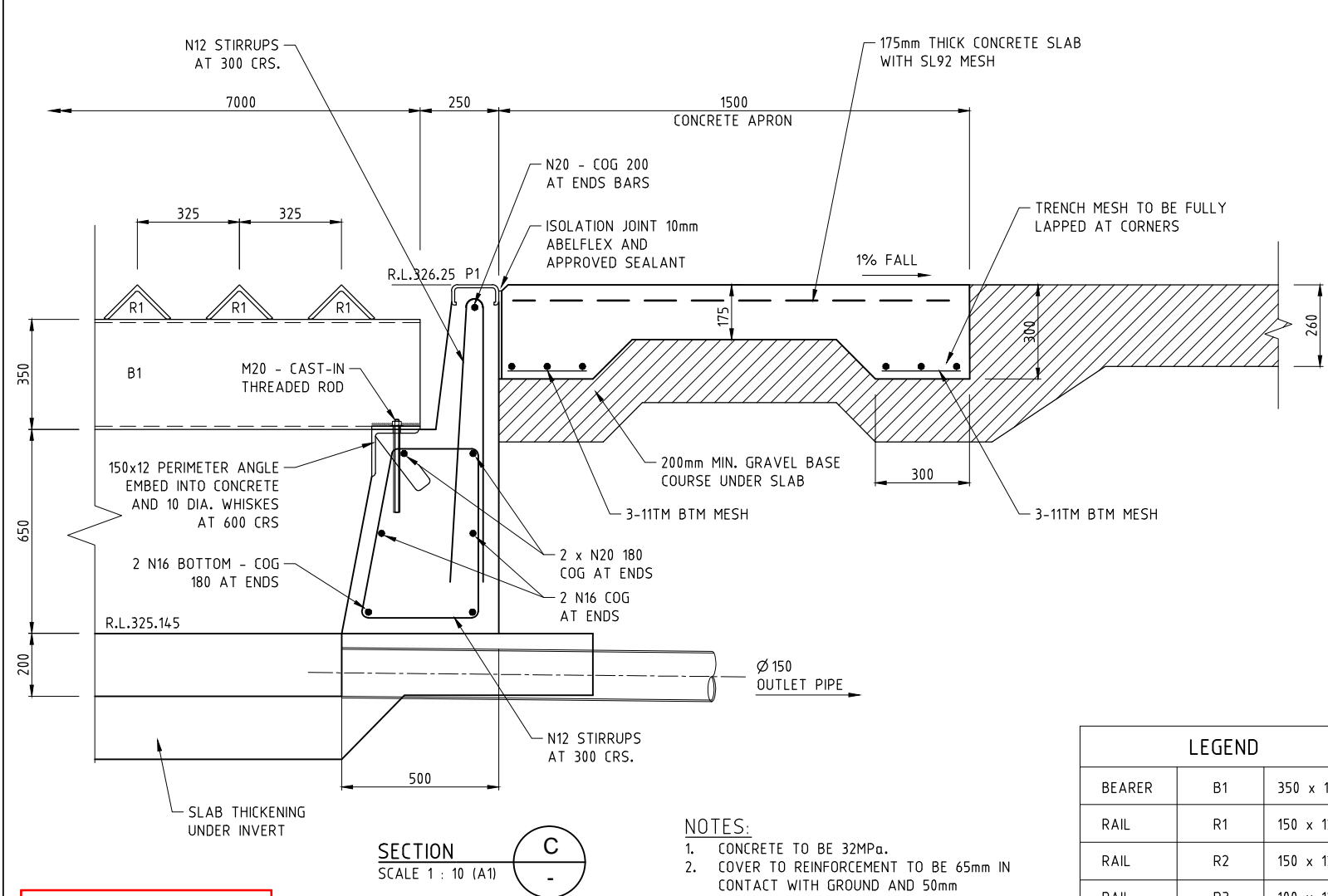
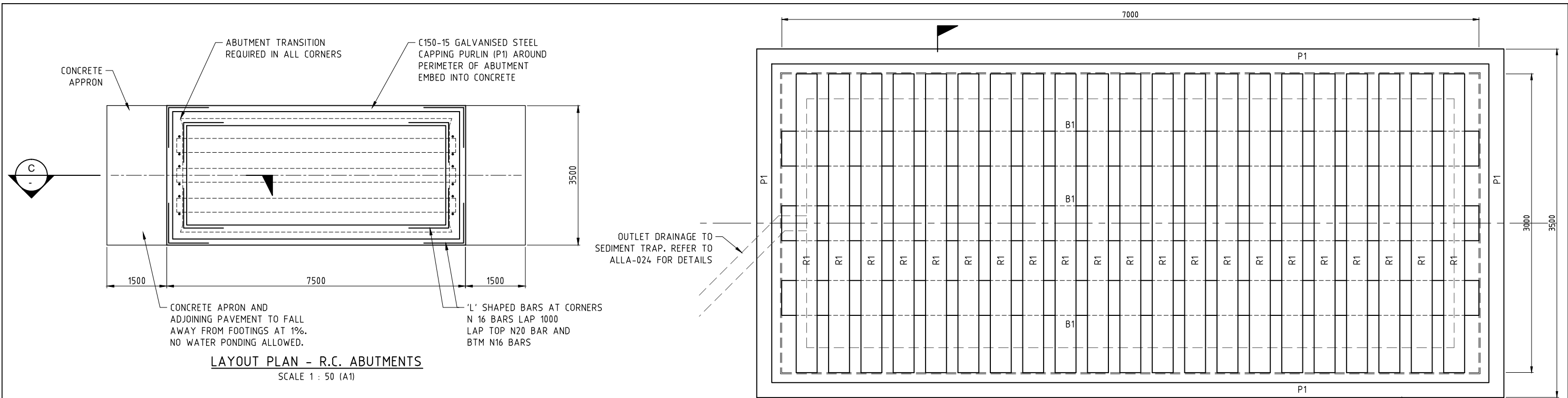
ALLA - 024

Revision

C

Drawing Size


A1

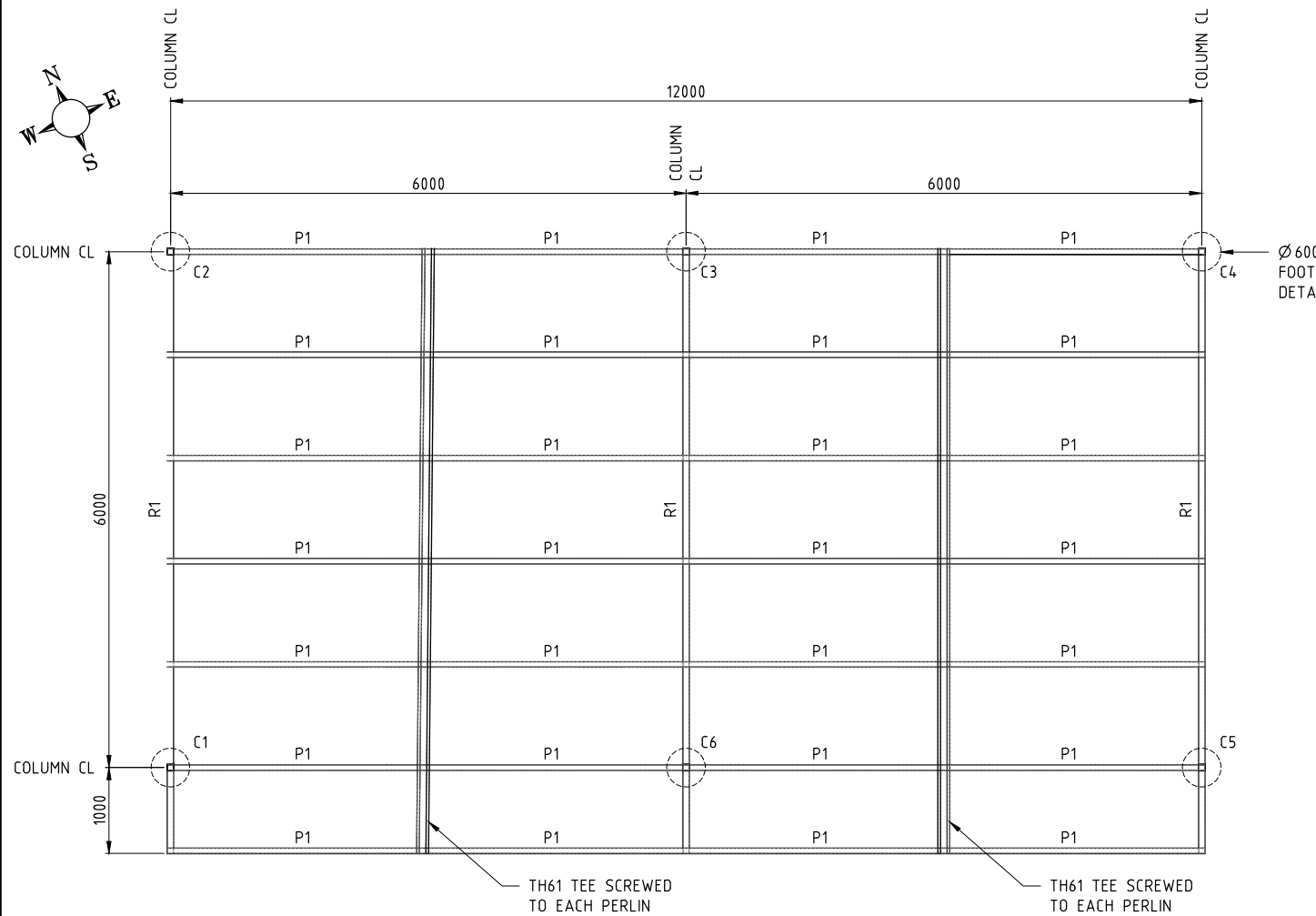


LEGEND		
BEARER	B1	350 x 10 SHS
RAIL	R1	150 x 12 EA
RAIL	R2	150 x 12 EA
RAIL	R3	100 x 12 EA
PURLIN	P1	C150-15

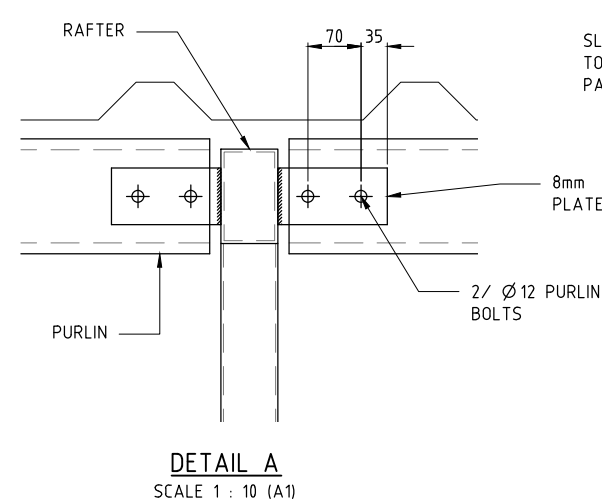
- NOTES:
- CONCRETE TO BE 32MPa.
 - COVER TO REINFORCEMENT TO BE 65mm IN CONTACT WITH GROUND AND 50mm ELSEWHERE

WORKS APPROVAL
31 MARCH 2015

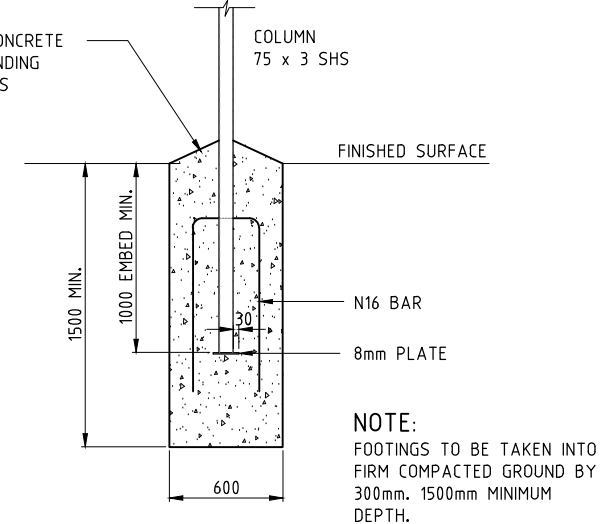
	Bowman and Associates Pty Ltd ABN: 22 112 399 514 Mail: PO Box 2059, Rossmoyne WA 6148 Office: 8/640 Beeliar Drive, Success WA 6164 Phone: (08) 9414 9670 Web: www.bowmanassociates.com.au				Client SITA Australia				Location Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans				Drawing Title Mud Shaker Grid Structural Details					
	Date 31/03/15		Scale		Design By M.E.		Drawn By S.B.Y.		Project Allawuna Farm Landfill				Drawing Number ALLA - 025		Revision C		Drawing Size A1	



CARPORT MEMBER LAYOUT PLAN
SCALE 1 : 40 (A1)



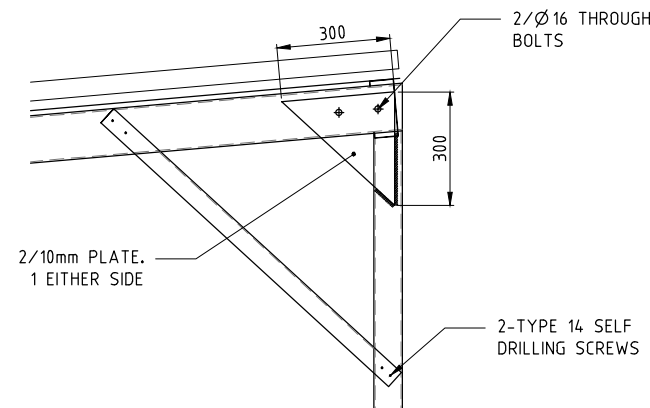
DETAIL A
SCALE 1 : 10 (A1)



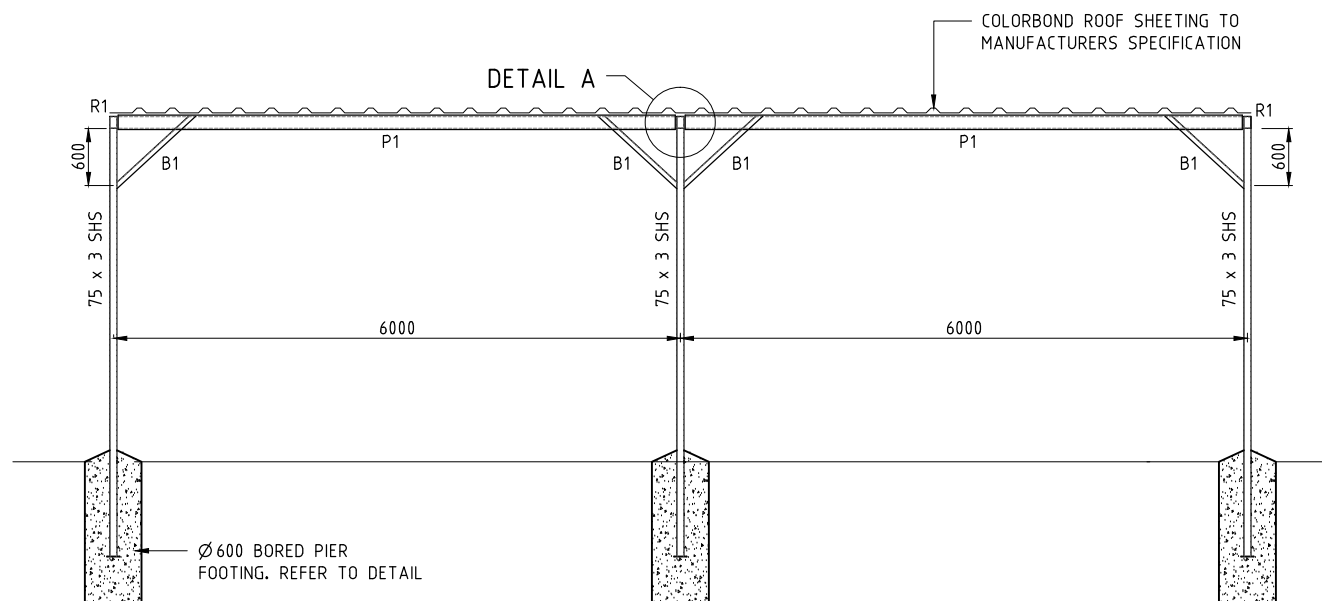
FOOTING DETAIL
SCALE 1 : 20 (A1)

LEGEND		
COLUMNS	C1 TO C6	75 x 3 SHS
RAFTERS	R1	125 x 75 x 4 RHS
PURLINS	P1	C150-012
BRACING	B1	50 x 3 ANGLE

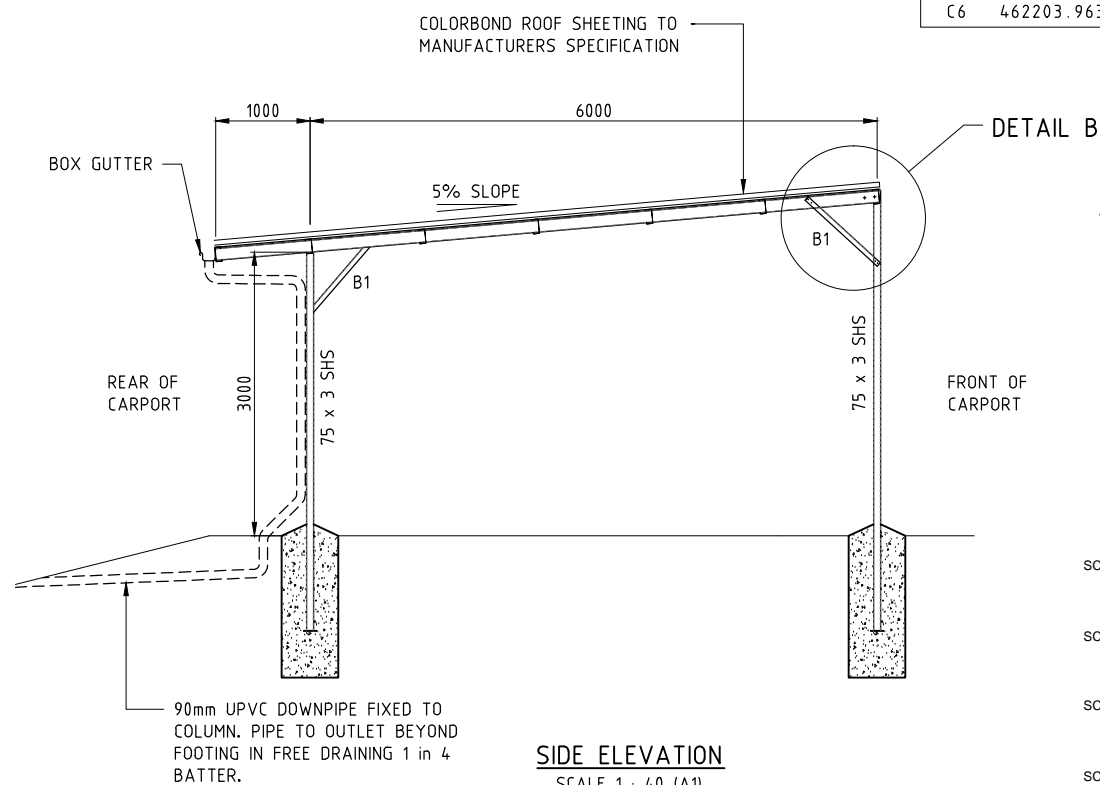
COLUMN SETOUT		
	EASTING	NORTHING
C1	462198.500	6469476.621
C2	462200.981	6469482.084
C3	462206.444	6469479.602
C4	462211.907	6469477.121
C5	462209.426	6469471.658
C6	462203.963	6469474.139



DETAIL B
SCALE 1 : 10 (A1)



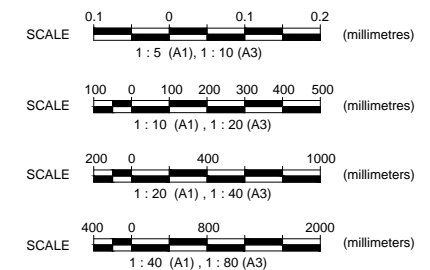
FRONT ELEVATION
SCALE 1 : 40 (A1)



SIDE ELEVATION
SCALE 1 : 40 (A1)

- NOTES:
- ALL SETOUT MUST BE CONFIRMED ON SITE PRIOR TO COMMENCING CONSTRUCTION.
 - REFER TO DRAWING NO. ALLA - 028 FOR CONCRETE AND STEEL NOTES.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

ENGINEERING CERTIFICATION:
Mark Carr
01/04/15



WORKS APPROVAL
31 MARCH 2015



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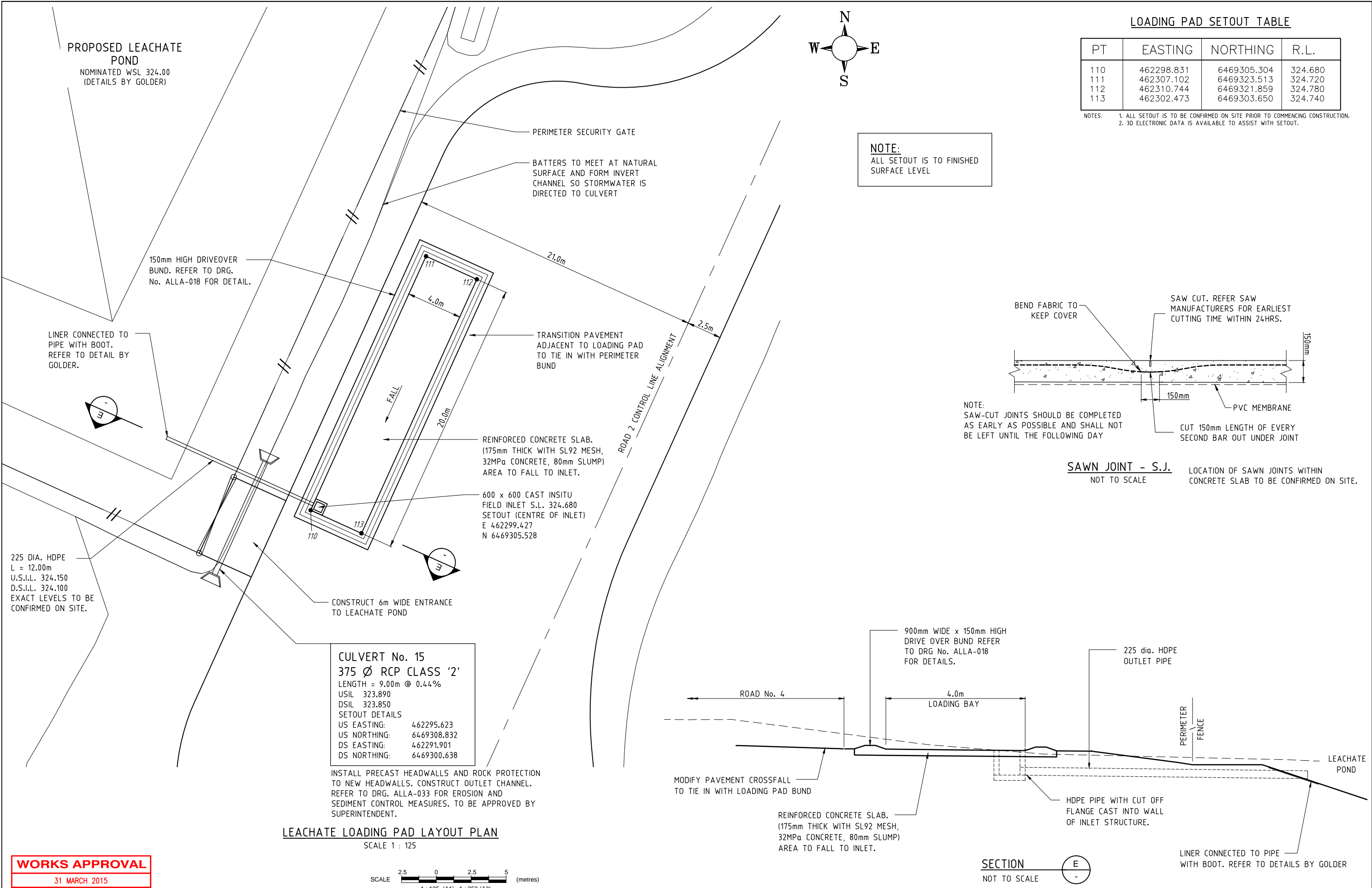
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Client			
SITA Australia			
Date	Scale	Design By	Drawn By
31/03/15	1 : 40	M.E.	S.B.Y.

Location	
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans	
Project	
Allawuna Farm Landfill	

Drawing Title		
Carport Layout Plan & Details		
Drawing Number	Revision	Drawing Size
ALLA - 026	C	A1





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Client			
SITA Australia			
Date	Scale	Design By	Drawn By
31/03/15	1 : 125	B.W.B.	S.B.Y.

Location	
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans	
Project	
Allawuna Farm Landfill	

Drawing Title		
Leachate Loading Pad Details		
Drawing Number	Revision	Drawing Size
ALLA - 027	C	A1

STRUCTURAL NOTES:

GENERAL:

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL CHECK AND CO-ORDINATE WITH THE SUPERINTENDENT ALL STEPS, FALLS, REBATES, SET DOWNS, CHASES AND PENETRATIONS.
- UNLESS NOTED OTHERWISE DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OFF DRAWINGS.
- ALL DIMENSIONS SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF THE WORKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE AND ADJACENT STRUCTURES IN A STABLE CONDITION AND ENSURE NO PART SHALL BE OVERSTRESSED DURING THE WORKS.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT AUSTRALIAN STANDARDS, THE BCA, MRWA, AND LOCAL COUNCIL REGULATIONS.
- PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR WILL SATISFY HIMSELF OF THE CORRECT LOCATION OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS.
- ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.
- ANY WORK ON EXISTING SERVICES THAT REQUIRES RELOCATION BY AUTHORITIES SHALL BE CARRIED OUT BY THE RELEVANT AUTHORITY BUT WITHIN TERMS OF THE CONTRACT AND SHALL BE CO-ORDINATED BY THE CONTRACTOR.
- ALL SAFETY SIGNS AND BARRICADES SHALL BE ERECTED TO COMPLY WITH MAIN ROADS WESTERN AUSTRALIAN STANDARDS AND AS1272.

FOUNDATIONS:

- REFER TO SOILS REPORT AND FOOTING PLAN FOR FOUNDATION MATERIAL REQUIREMENTS.
- THE SUPERINTENDENT SHALL BE NOTIFIED IMMEDIATELY SHOULD THE FOUNDATION MATERIAL DIFFER FROM THAT STATED IN THE SOIL REPORT.
- TOPSOIL CONTAINING PLANT ROOTS AND ANY ORGANIC MATERIAL SHALL BE REMOVED FROM THE BUILDING AREA PRIOR TO CONSTRUCTION.
- FOOTINGS SHALL BE LOCATED CENTRALLY UNDER COLUMNS AND WALLS UNLESS NOTED OTHERWISE.
- ALL WATER AND LOOSE MATERIAL SHALL BE REMOVED FROM FOOTING EXCAVATIONS PRIOR TO CONCRETING.
- ALL FOOTINGS SHALL BE FOUNDED INTO MATERIAL HAVING A SAFE BEARING CAPACITY OF NOT LESS THAN 100kPa. BEFORE ANY CONCRETE IS PLACED, THE SAFE BEARING CAPACITY SHALL BE VERIFIED BY A QUALIFIED ENGINEER.
- ALL FOOTINGS ARE TO BE FOUNDED IN 300mm DEPTH OF NATURAL STIFF MATERIAL. IF NOT THE FOOTING MUST BE VERIFIED BY A QUALIFIED ENGINEER
- ALL TREES AND SHRUBS ARE TO BE KEPT A MINIMUM OF 2 TIMES THEIR MATURE HEIGHT AWAY FROM BUILDINGS. IN THE EVENT THAT THIS CONSTRAINT CAN NOT BE ACHIEVED A ROOT BARRIER SYSTEM SHALL BE INSTALLED AND CERTIFIED BY A SPECIALIST CONTRACTOR TO PROTECT THE BUILDINGS FOUNDATION SYSTEM.

CONCRETE:

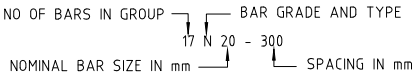
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT EDITIONS OF AS 3600 EXCEPT AS VARIED BY CONTRACT DOCUMENTS.
- CONCRETE COMPONENTS AND QUALITY SHALL BE AS FOLLOWS:-

BUILDING ELEMENT		REFER RELEVANT DRAWINGS
f _c	MPa	REFER RELEVANT DRAWINGS
MAX. AGG. SIZE	mm	20
SLUMP	mm	80 ± 15
CEMENT TYPE		GP
CONTROL TESTING TYPE		PROJECT

PROJECT STRENGTH ASSESSMENT TO AS 3600 CLAUSE 20.7.

- THE MINIMUM CLEAR COVER TO REINFORCEMENT, INCLUDING TIE BARS TO TAKE ACCOUNT OF DURABILITY AND FIRE RESISTANCE (IF APPLICABLE) SHALL BE SHOWN ON THE DRAWINGS.
- CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.
- NO HOLES, CHASES OR EMBEDMENT OF PIPES, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT.
- SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN OR AS OTHERWISE APPROVED BY THE SUPERINTENDENT.
- MINIMUM LAP FOR ALL FABRICS SHALL BE ONE MESH PLUS 30 mm U.N.O.
- REINFORCEMENT IS SHOWN DIAGRAMMATICALLY; IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.

- ALL REINFORCEMENT SHALL BE TO AS 1302.
- SYMBOLS:
SL = WIRE REINFORCING MESH;
R = STRUCTURAL GRADE ROUND BAR;
S = STRUCTURAL GRADE DEFORMED BAR;
N = GRADE DEFORMED BAR, DESIGNATION CODE OF REINFORCEMENT BARS AS IN EXAMPLE:



- WHERE TRANSVERSE TIE-BARS ARE NOT SHOWN PROVIDE N12-300, SPLICE WHERE NECESSARY AND LAP WITH MAIN BARS:- 400 mm.
- ALL CONCRETE SHALL BE PLACED AND 'CURED' IN ACCORDANCE WITH SECTION 19 AS 3600. WHERE CURING COMPOUND IS USED IT MUST BE APPLIED (A) ONTO SLABS WITHIN 2 HOURS OF FINISHING OPERATION (B) ONTO WALLS AND COLUMNS IMMEDIATELY AFTER REMOVAL OF FORMWORK. (N.B. PVA CURING COMPOUND IS NOT ACCEPTABLE. USE WAX OR RESIN EMULSION, POLYTHENE SHEETING OR CONTINUOUS SPRAYS). HORIZONTAL FORMWORK SHALL BE STRIPPED WHEN APPROVED BY THE ENGINEER.
- SLABS AND BEAMS SHALL BEAR ONLY ON THE COLUMNS WALLS, ETC., SHOWN SHADED ON THE PLANS; ALL OTHER NON LOAD BEARING ELEMENTS INCLUDING WINDOW MULLIONS, ARCHITECTURAL ATTACHMENTS ET SHALL BE KEPT 20mm CLEAR FROM SOFFIT OF STRUCTURE. ALLOWANCE TO BE MADE IN ANY CONNECTIONS TO SLAB OR BEAM SOFFIT FOR 20 mm DEFLECTION.
FOOTINGS AND PIERS - 32MPa
COLUMNS - 32MPa
SLABS AND SUSPENDED FLOOR - 32MPa
SLABS ON GROUND - 32MPa UNO
TILT UP AND WALLS - 40MPa (PANELS TO BE 25MPa Min AT TIME OF LIFT)
- FOR OVERSIZE PENETRATIONS REFER TO ENGINEER FOR APPROVAL.
- MINIMUM COVER TO ALL REINFORCEMENT UNLESS OTHERWISE SHOWN OTHERWISE SHALL BE AS FOLLOWS :
FOOTINGS - 50mm
SLABS - 30mm
- SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS.
- TRIM ALL PENETRATIONS LESS THAN 300mm WITH 2/N12 BARS EACH SIDE AND DISPLACE REINFORCEMENT EITHER SIDE.
- WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.
- ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS.
- CAMBER - UNLESS NOTED OTHERWISE ON DRAWINGS, SLABS SHALL BE GIVEN A POSITIVE UPWARD CAMBER AT MID SPAN OF 3mm PER 1000mm SPAN, METHOD OF CAMBERING IS TO AGREED WITH THE ENGINEER. BEAMS SHALL BE CAMBERED AS SHOWN ON DRAWINGS. (NEGATIVE CAMBER IS NOT ALLOWED).
- FORM WORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 1509.
- THE CONCRETE SHALL BE COMPACTED USING HIGH FREQUENCY VIBRATORS.
- ALL SLABS SHALL BE PLACED AT THE SAME TIME AS BEAMS OF WHICH THEY FORM PART.
- JOINTS MUST BE EXTENDED INTO THE ADJOINING KERB OR CONCRETE DRAINAGE CHANNEL.
- USE ALIPHATIC ALCOHOL TO PREVENT THE EARLY EVAPORATION OF SURFACE MOISTURE NOT A SUBSTITUTE FOR A CURING COMPOUND.

STEELWORK:

- ALL STEELWORK SHALL COMPLY WITH AS1250 AND AS1554 AS APPROPRIATE. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100 STEEL STRUCTURES CODE.
- CORRECT ALL MEMBER DISTORTIONS BEFORE AND AFTER WELDING.
- THE CONTRACTOR SHALL SUBMIT STRUCTURAL STEEL SHOP DRAWINGS FOR REVIEW BY THE ENGINEER AND ARCHITECT, BEFORE FABRICATION COMMENCES.
- THE STEEL MEMBERS SHOWN ON THE STRUCTURAL DRAWINGS ARE THOSE REQUIRED FOR THE COMPLETED STRUCTURE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY CONNECTIONS, SUPPORTS AND BRACING REQUIRED TO MAINTAIN THE STABILITY AND SAFETY OF THE STEELWORK THROUGHOUT THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL STEELWORK, CLEATS AND BOLTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- UNLESS NOTED OTHERWISE ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:

ELEMENT	STEEL GRADE
HOT ROLLED SECTIONS	300 PLUS
WELDED SECTIONS (WB, WC)	300 PLUS
CHS UP TO AND INCLUDING 168 DIA	C250
CHS GREATER THAN 168 DIA SHS & RHS	C350
FLOOR PLATES	250
MERCHANT BAR - ROUNDS, SQUARES & FLATS	300 PLUS

- UNLESS NOTED OTHERWISE ALL WELDS SHALL BE 6mm CONTINUOUS FILLET. ALL WELDS SHALL BE FROM E41XX/W40X ELECTRODES AND SHALL BE CATEGORY GP UNLESS NOTED OTHERWISE.
- ALL CLEATS AND GUSSET PLATES SHALL BE 10mm THICK UNLESS NOTED OTHERWISE.

- ALL BOLTS SHALL BE BE M20 8.8/S UNLESS NOTED OTHERWISE. BOLT HOLES SHALL BE 2mm GREATER THAN SPECIFIED BOLT SIZE UNLESS NOTED OTHERWISE.
- BOLT DESIGNATIONS SHALL CONFORM TO THE FOLLOWING:

ELEMENT	STEEL GRADE
HOT ROLLED SECTIONS	300 PLUS
WELDED SECTIONS (WB, WC)	300 PLUS
CHS UP TO AND INCLUDING 168 DIA	C250
CHS GREATER THAN 168 DIA SHS & RHS	C350
FLOOR PLATES	250
MERCHANT BAR - ROUNDS, SQUARES & FLATS	300 PLUS

- LOADING WASHERS SHALL BE USED TO VERIFY THE TIGHTENING OF BOLTS IN IF AND TB CONNECTIONS.
- WASHERS SHALL BE INSTALLED UNDER BOTH BOLT HEAD AND NUT AT ALL SLOTTED BOLT LOCATIONS.
- PROPRIETARY ITEMS (E.G.PURLINS, BOLTS, ETC) SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- CONCRETE ENCASED AND FIRE SPRAYED STEELWORK SHALL NOT BE PAINTED.
- CONCRETE ENCASED STEELWORK SHALL HAVE A MINIMUM 50mm OF COVER. CONCRETE REINFORCED WITH WS WIRE AT 150 CRS OR FCW41 FABRIC UNLESS NOTED OTHERWISE.
- THE POSITION AND DETAIL OF ANY SPECIFICATIONS REQUIRED OTHER THAN THOSE SHOWN ON THESE DRAWINGS SHALL BE APPROVED BY THE SUPERINTENDENT.
- FULL CONTACT BEARING SURFACES, WHERE SPECIFIED SHALL COMPLY WITH CLAUSE 14.4.4.2 OF AS4100.
- THE ENDS OF ALL STEEL TUBULAR MEMBERS SHALL BE CAPPED WITH 5mm MINIMUM PLATES AND CONTINUOUS FILLET WELDS, UNLESS NOTED OTHERWISE.
- CLADDING, TRIMMING MEMBERS FOR VALLEYS, EDGES, MECHANICAL AND HYDRAULIC PENETRATIONS ARE NOT NECESSARILY SHOWN. REFER TO PURLIN MANUFACTURER FOR DETAILS.
- SUPPORT RODS FOR CEILINGS, SERVICES ETC, WHICH ARE SUSPENDED FROM PURLINS SHALL BE CONNECTED TO PURLIN WEBS ONLY. NO HOLES SHALL BE DRILLED THROUGH PURLIN FLANGES.
- INTERNAL STEELWORK SHALL BE THOROUGHLY CLEANED TO CLASS 1 AND COATED WITH ONE COAT OF HIGH BUILD ZINC PHOSPHATE PRIMER TO 75µm. BEFORE ERECTION UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, EXTERNAL STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AS4680.
- ALL BOLTS, WASHERS AND DRILLED IN ANCHORS SPECIFIED IN EXTERNAL AREAS TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH AS1214.
- ALL BOLTS TO BE 20mm GRADE 8.8/S UNLESS NOTED OTHERWISE.
- ALL HOLES SHALL BE 2mm LARGER THAN THEN NOMINAL BOLT DIAMETER UNLESS NOTED OTHERWISE. SLOTTED HOLES AND BOLT TENSIONING SHALL COMPLY WITH AS1511. HOLES FOR H.D. BOLTS SHALL BE 4mm OVERSIZE UNLESS NOTED OTHERWISE.
- SEAL THE ENDS OF ALL TUBULAR MEMBERS WITH 3mm THICK PLATES AND CONTINUOUS SEAL WELDS UNLESS NOTED OTHERWISE.
- NON DESTRUCTIVE WELD TESTING, WHERE SPECIFIED, SHALL BE CARRIED OUT BY SUITABLY QUALIFIED PERSONNEL IN ACCORDANCE WITH CLAUSE 7.4 OF AS1554.1 USING APPROPRIATE RADIOGRAPHIC, ULTRASONIC, MAGNETIC PARTICLE OR DYE PENETRATION TECHNIQUES. THE RESULTS SHALL BE PROMPTLY FORWARDED TO THE ENGINEER FOR REVIEW PRIOR TO ERECTION OF THE STEELWORK.

COLD FORMED STEEL FRAME:

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4600. COLD FORMED STEEL STRUCTURES CODE.
- FABRICATED STEEL ROOF TRUSSES, WALL FRAME, SYSTEMS & FLOOR JOIST SYSTEMS ARE TO BE DESIGNED AND CERTIFIED BY THE SUPPLIER'S STRUCTURAL ENGINEER FOR THE DESIGN LOADS AND WIND CLASSIFICATION CATEGORY AS SPECIFIED IN THE STRUCTURAL DRAWINGS. DESIGN AND INSPECTION CERTIFICATES FOR THESE ELEMENTS ARE TO BE ISSUED TO THE BUILDER FOR LODGMENT WITH THE LOCAL AUTHORITY.
- ALL STEEL FRAME SYSTEMS ARE TO BE DESIGNED AND SUPPLIED BY A SPECIALIST SUB-CONTRACTOR, SUCH AS "RONDO" OR "LYSAGHT" BUILDING SYSTEMS OR EQUIVALENT.
- ALL FRAMING, BRACING AND TIE-DOWN INFORMATION SPECIFIED FORM THE BASIS FOR THE DESIGN OF THE STRUCTURAL SUPPORT ELEMENTS DOWN TO THE FOUNDATIONS. ALTERNATIVE FRAMING SOLUTIONS WILL ONLY BE CONSIDERED UPON WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- ALL LOAD BEARING WALLS TO INCORPORATE NOM. 90mm x 1.2mm STUDS AT 450 MAX CRS, OR EQUIVALENT, WALLS TO HAVE SUITABLE STIFFENED TOP AND BOTTOM PLATES. JAM STUDS TO ALL OPENINGS, SILLS AND HEADS, WITH NOGGINS AS REQUIRED. NON-LOAD BEARING WALLS TO INCORPORATE DEFLECTION HEAD TRACKS WHERE APPROPRIATE.
- STEEL WALL FRAMES ARE TO INCORPORATE BRACING ELEMENTS AS IS NECESSARY TO SATISFY THE REQUIRED BRACING RESISTANCE SPECIFIED ON THE BRACING PLANS.
- STEEL FRAMING SYSTEM TO INCORPORATE ADEQUATE TIE-DOWN ELEMENTS TO RESIST WIND FORCES FOR THE WIND CATEGORY SPECIFIED IN THE STRUCTURAL DRAWINGS.

WORKS APPROVAL

31 MARCH 2015

ENGINEERING CERTIFICATION:

Mark Owen

01/04/15



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Client				Location		Drawing Title		
SITA Australia				Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans		Concrete and Steel Notes		
Date	Scale	Design By	Drawn By	Project		Drawing Number	Revision	Drawing Size
31/03/15		M.E.	S.B.Y.	Allawuna Farm Landfill		ALLA - 028	C	A1

NOTES:

1.

ALL SETOUT MUST BE CONFIRMED ON SITE PRIOR TO COMMENCING CONSTRUCTION.

2.

THIS DRAWING MUST BE READ IN CONJUNCTION WITH ELECTRICAL PLANS PREPARED BY OVERFLOW INDUSTRIES.

N

W

E

S

ELECTRICAL SETOUT TABLE

PT	EASTING	NORTHING	ELECTRICAL EQUIPMENT ID
01	462219.356	6469448.763	P01
02	462262.180	6469429.311	P02
03	462306.834	6469409.027	P03
04	462242.767	6469386.574	P04
05	462250.180	6469241.412	P05
06	462271.545	6469132.345	P06
07	462294.628	6469014.512	P07
08	462345.443	6468891.646	P08
09	462387.929	6468888.726	P09
10	462428.743	6468859.770	P10
11	462275.327	6469458.253	P11
12	462209.726	6469452.972	CP001
13	462276.222	6469371.378	CP002
14	462472.122	6468889.898	CP003
15	462829.540	6469011.335	CP004
16	462387.908	6468888.427	CP005
17	462336.768	6469039.136	CP006
18	462508.421	6468872.814	SUMP
19	462202.334	6469429.408	END

SERVICES LEGEND:

L

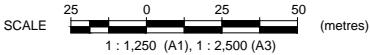
LEACHATE PIPE

E

ELECTRICAL CONDUIT

WORKS APPROVAL

31 MARCH 2015



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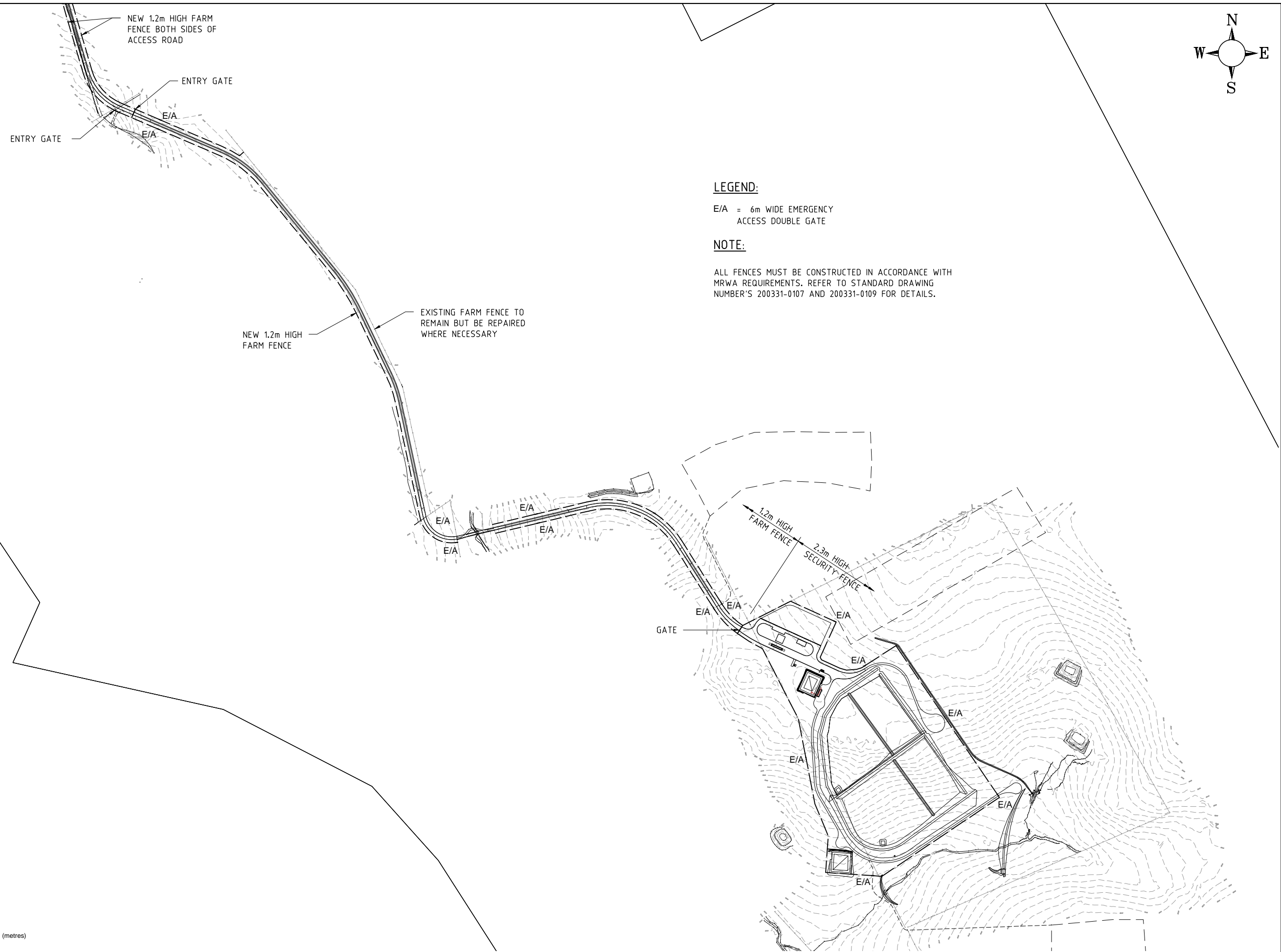
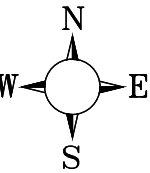
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Client			
SITA Australia			
Date	Scale	Design By	Drawn By
31/03/15	1:1,250	B.W.B.	S.B.Y.

Location	
Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans	
Project	
Allawuna Farm Landfill	

Drawing Title		
Services Layout Plan		
Drawing Number	Revision	Drawing Size
ALLA - 029	C	A1



WORKS APPROVAL
31 MARCH 2015

SCALE 50 0 100 250 (metres)
1 : 5,000 (A1), 1 : 10,000 (A3)



Bowman and Associates Pty Ltd

ABN: 22 112 399 514

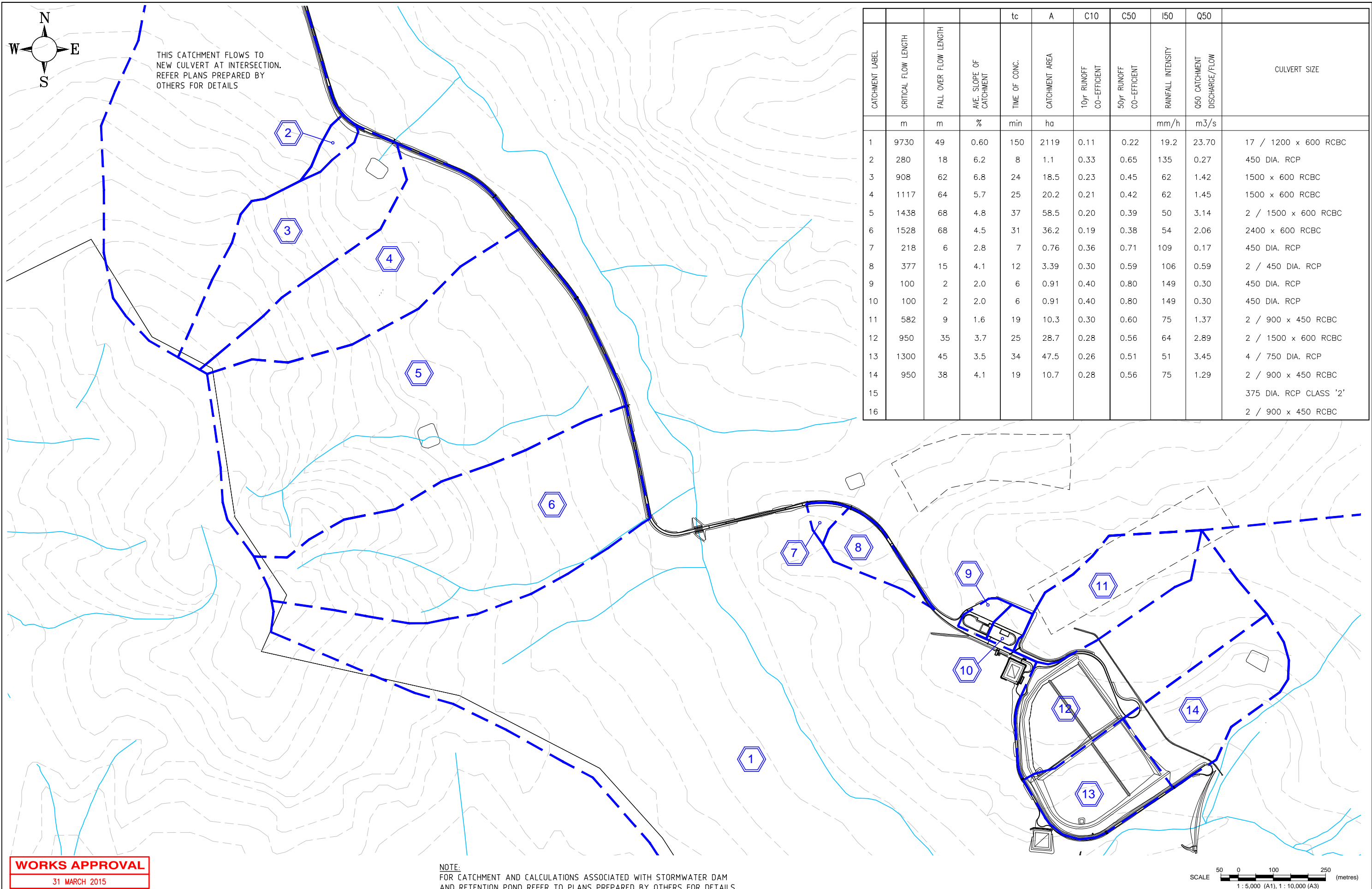
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Client				Location		Drawing Title		
SITA Australia				Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans		Fence Layout Plan		
Date	Scale	Design By	Drawn By	Project		Drawing Number	Revision	Drawing Size
31/03/15	1:5,000	B.W.B.	S.B.Y.	Allawuna Farm Landfill		ALLA - 030	C	A1




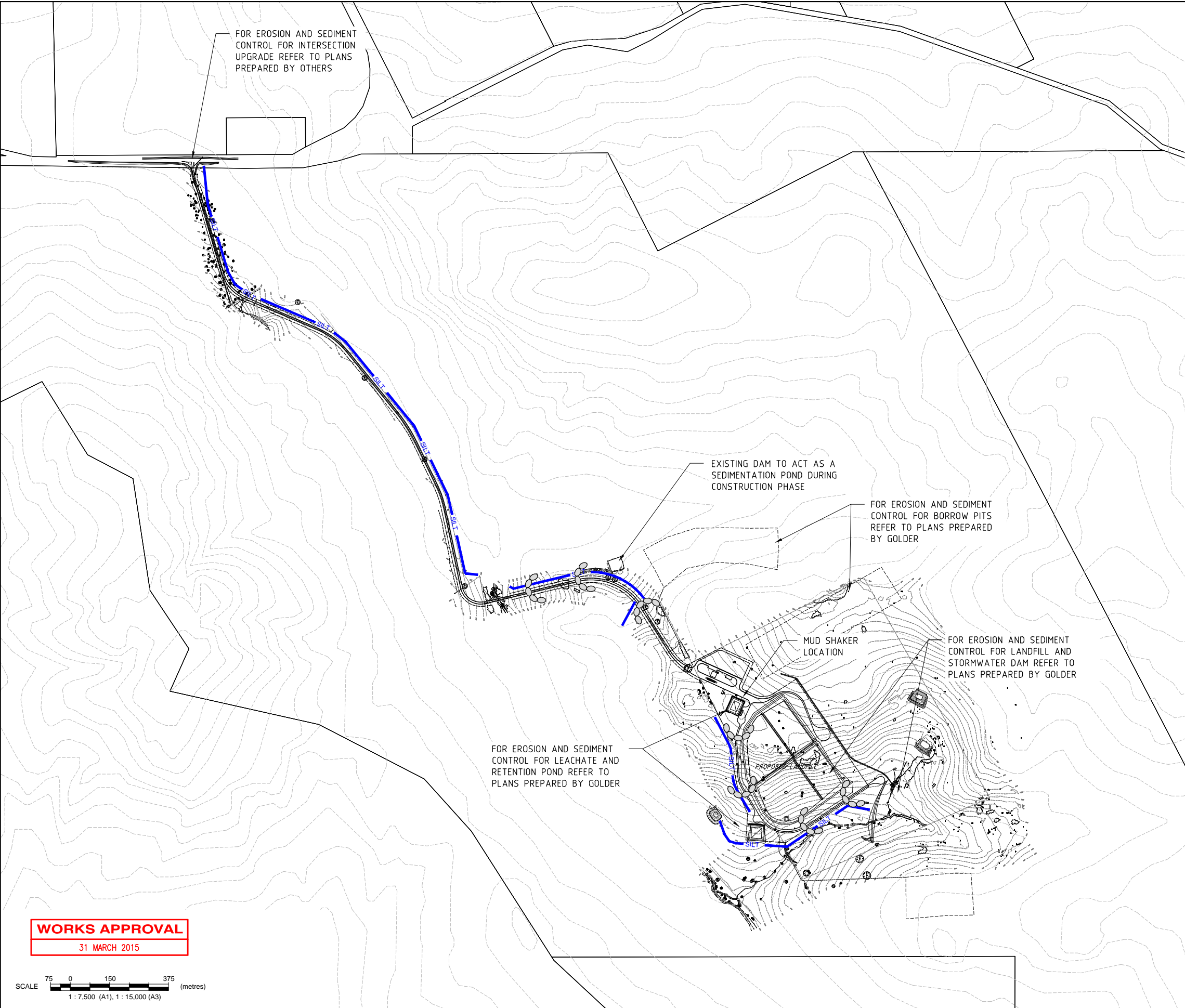
CATCHMENT LABEL	CRITICAL FLOW LENGTH	FALL OVER FLOW LENGTH	AVE. SLOPE OF CATCHMENT	TIME OF CONC.	CATCHMENT AREA	10yr RUNOFF CO-EFFICIENT	50yr RUNOFF CO-EFFICIENT	RAINFALL INTENSITY	Q50 CATCHMENT DISCHARGE/FLOW	CULVERT SIZE
	m	m	%	min	ha			mm/h	m3/s	
1	9730	49	0.60	150	2119	0.11	0.22	19.2	23.70	17 / 1200 x 600 RCBC
2	280	18	6.2	8	1.1	0.33	0.65	135	0.27	450 DIA. RCP
3	908	62	6.8	24	18.5	0.23	0.45	62	1.42	1500 x 600 RCBC
4	1117	64	5.7	25	20.2	0.21	0.42	62	1.45	1500 x 600 RCBC
5	1438	68	4.8	37	58.5	0.20	0.39	50	3.14	2 / 1500 x 600 RCBC
6	1528	68	4.5	31	36.2	0.19	0.38	54	2.06	2400 x 600 RCBC
7	218	6	2.8	7	0.76	0.36	0.71	109	0.17	450 DIA. RCP
8	377	15	4.1	12	3.39	0.30	0.59	106	0.59	2 / 450 DIA. RCP
9	100	2	2.0	6	0.91	0.40	0.80	149	0.30	450 DIA. RCP
10	100	2	2.0	6	0.91	0.40	0.80	149	0.30	450 DIA. RCP
11	582	9	1.6	19	10.3	0.30	0.60	75	1.37	2 / 900 x 450 RCBC
12	950	35	3.7	25	28.7	0.28	0.56	64	2.89	2 / 1500 x 600 RCBC
13	1300	45	3.5	34	47.5	0.26	0.51	51	3.45	4 / 750 DIA. RCP
14	950	38	4.1	19	10.7	0.28	0.56	75	1.29	2 / 900 x 450 RCBC
15										375 DIA. RCP CLASS '2'
16										2 / 900 x 450 RCBC

WORKS APPROVAL
31 MARCH 2015

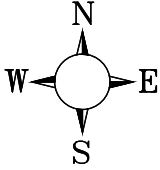
NOTE:
FOR CATCHMENT AND CALCULATIONS ASSOCIATED WITH STORMWATER DAM
AND RETENTION POND REFER TO PLANS PREPARED BY OTHERS FOR DETAILS

SCALE 50 0 100 250 (metres)
1 : 5,000 (A1), 1 : 10,000 (A3)

 <div>Bowman and Associates Pty Ltd ABN: 22 112 399 514 Mail: PO Box 2059, Rossmoyne WA 6148 Office: 8/640 Beeliar Drive, Success WA 6164 Phone: (08) 9414 9670 Web: www.bowmanassociates.com.au</div>	Client SITA Australia				Location Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans				Drawing Title Stormwater Catchment Plan & Calcs.		
	Date 31/03/15	Scale 1:5,000	Design By B.W.B.	Drawn By S.B.Y.	Project Allawuna Farm Landfill				Drawing Number ALLA - 031	Revision C	Drawing Size A1



NOTE:
EXISTING CONTOURS SHOWN
ONLY FOR CLARITY.



EROSION AND SEDIMENT NOTES:

1. DETAILS SHOWN ON THESE DRAWINGS REPRESENT PROPOSED MINIMUM REQUIREMENTS FOR ONE POSSIBLE METHOD TO ACHIEVE COMPLIANCE WITH LEGISLATION TO PREVENT ENVIRONMENTAL HARM FROM EROSION AND SEDIMENT TRANSFER OFF THE CONSTRUCTION SITE, HOWEVER COMPLIANCE WITH THESE DRAWINGS MAY NOT BE SUFFICIENT TO ACHIEVE COMPLIANCE.
2. THE CONTRACTOR SHALL EMPLOY BEST MANAGEMENT PRACTICES THROUGHOUT THE COURSE OF THE CONSTRUCTION.
3. CONSTRUCTION IS TO BE MANAGED SUCH THAT AREAS NOT REQUIRED FOR CONSTRUCTION PURPOSES ARE TO BE LEFT UNDISTURBED WHERE POSSIBLE.
4. WHERE POSSIBLE SEDIMENT CONTROL DESIGN MEASURES SHOULD BE SET IN PLACE PRIOR TO ANY CONSTRUCTION COMMENCING. THE CONTRACTOR IS TO MAINTAIN & CLEAN OUT ALL STRUCTURES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR SITE AND WEATHER CONDITIONS AND WATER QUALITY LEAVING THE SITE AND IMPLEMENT APPROPRIATE MEASURES TO COMPLY WITH THE STATUTORY REQUIREMENTS.
6. SHOULD THIS REQUIRE ADDITIONAL MEASURES OR ALTERATIONS TO THE DETAILS SHOWN ON THESE DRAWINGS THE CONTRACTOR IS TO PROVIDE WORK METHOD STATEMENTS AND/OR REVISED DRAWINGS TO THE SUPERINTENDENT CLEARLY DETAILING THE PROPOSED CHANGES AND PRIOR TO IMPLEMENTING THEM.
7. EXISTING GRASS COVER TO BE RETAINED WHEREVER POSSIBLE.
8. SILTATION MANAGEMENT DEVICES TO BE IN ACCORDANCE WITH MAIN ROADS WESTERN AUSTRALIAN EROSION AND SEDIMENT CONTROL GUIDELINES.
9. DUE TO OTHER CONSULTANTS INVOLVED IN THIS PROJECT THE CONTRACTOR MUST REFER TO THEIR PLANS FOR EROSION AND SEDIMENT CONTROL MEASURES ASSOCIATED WITH THEIR WORKS. EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE ONLY SUITABLE FOR ROADWORKS AND ASSOCIATED INFRASTRUCTURE.
10. STORMWATER CUT OFF DRAINS ABOVE SITE TO BE ESTABLISHED PRIOR TO COMMENCING OF SITE WORKS.
11. ALL EXPOSED BATTERS TO BE MULCHED IMMEDIATELY UPON COMPLETION OF EARTHWORKS.

WORKS APPROVAL
31 MARCH 2015

SCALE 75 0 150 375 (metres)
1 : 7,500 (A1), 1 : 15,000 (A3)



Bowman and Associates Pty Ltd

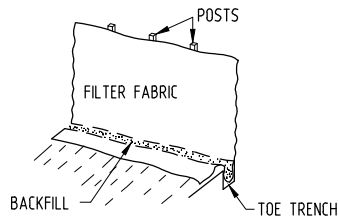
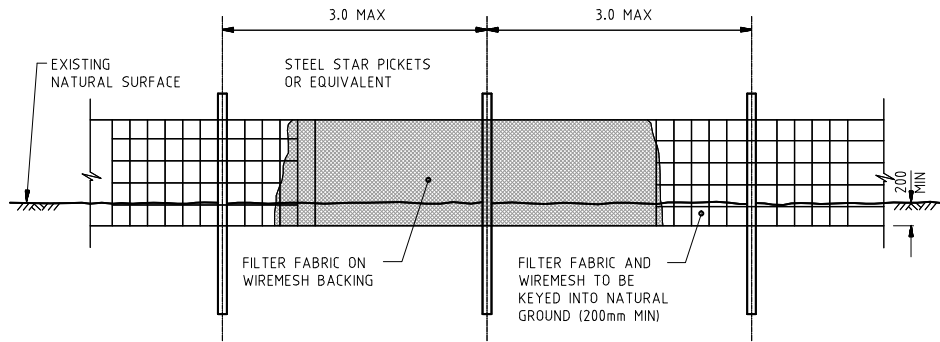
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Client				Location		Drawing Title		
SITA Australia				Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans		Sediment & Erosion Control Layout Plan		
Date	Scale	Design By	Drawn By	Project		Drawing Number	Revision	Drawing Size
31/03/15	1:7,500	B.W.B.	S.B.Y.	Allawuna Farm Landfill		ALLA - 032	C	A1

EROSION AND SEDIMENT CONTROL NOTES:

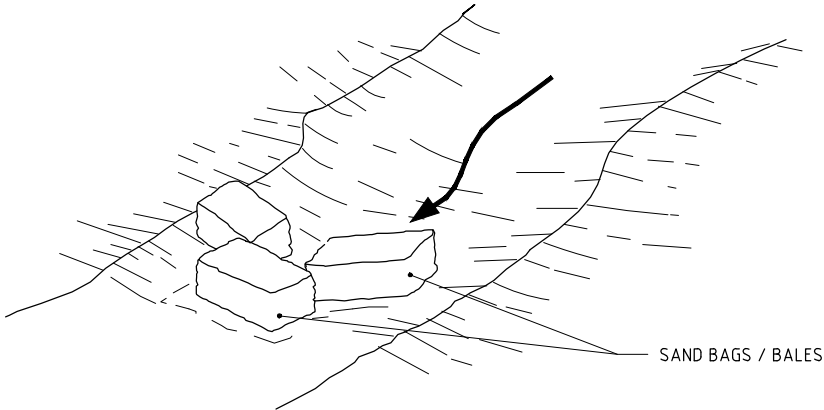
- 1. GRASS SEED TO ALL STOMRWATER CHANNEL AND TABLE DRAINS
- 2. PROVIDE 10m² MIN. STONEPITCHING AT ALL STORMWATER OUTLETS.
- 3. PROVIDE INLET PROTECTION MEASURES TO ALL INLETS.
- 4. GRASS SEED ALL DISTURBED AREAS.
- 5. DUST CONTROL BY WATERING AS NECESSARY TO PREVENT VISIBLE DUST CLOUDS AT PROPERTY BOUNDARIES.



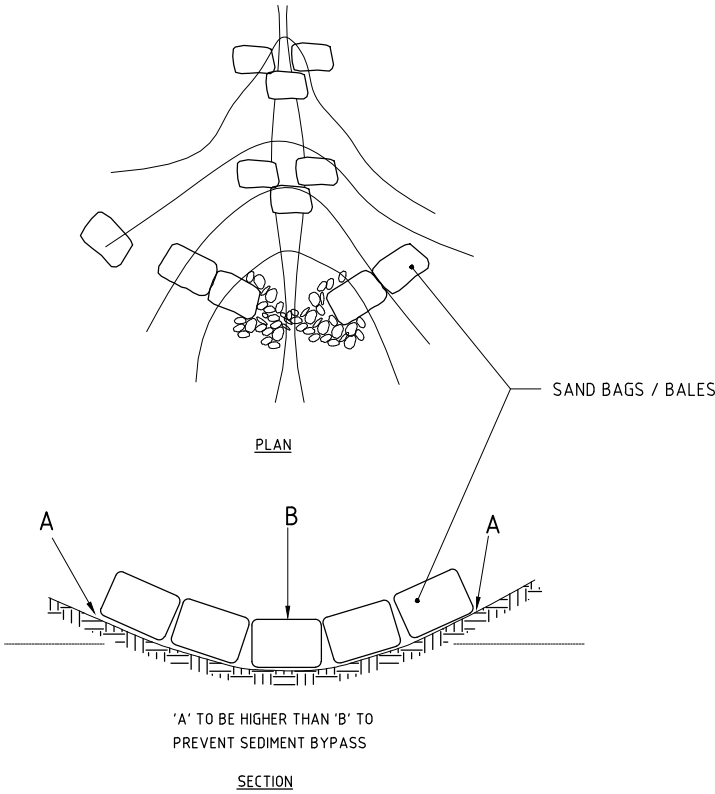
- MAINTENANCE PROGRAM FOR SILT FENCES**
- 1. REGULAR INSPECTIONS WILL BE REQUIRED TO CONTROL DAMAGE CAUSED BY ON SITE VEHICLES OR MOVEMENT OF STOCKPILES.
 - 2. INSPECTED AFTER EACH STORM EVENT THAT RESULTS IN RUN-OFF.
 - 3. REMOVE EXCESS SEDIMENT DEPOSITS.
 - 4. INVESTIGATE THE SOURCE OF ANY EXCESSIVE SEDIMENT.

NOTE:SILT MANAGEMENT
SILT FENCES ARE TO BE EMPLOYED WHERE CONDITIONS DURING CONSTRUCTION REQUIRE THE CONTROL OF ANY POSSIBLE SILT MOVEMENT ON THE SITE,AS DIRECTED BY THE SUPERVISOR.

TYPICAL SEDIMENT FENCE DETAIL
NOT TO SCALE



TYPICAL SAND BAG / BALE OPEN DRAIN DETAIL
NOT TO SCALE



TYPICAL SEDIMENT AND EROSION CONTROL DETAIL
NOT TO SCALE

WORKS APPROVAL

31 MARCH 2015



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Client

SITA Australia

Date

31/03/15

Scale

N.T.S.

Design By

B.W.B.

Drawn By

S.B.Y.

Location

Lots 4869, 5931, 9926 & 26934 Great Southern Hwy, Saint Ronans

Project

Allawuna Farm Landfill

Drawing Title

Sediment & Erosion Control Details

Drawing Number

ALLA - 033

Revision

C

Drawing Size

A1