



van der meer

WATER QUALITY REPORT
S4.55 Modification Submission

ATSYD2
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Lane Cove West NSW 2066

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Approved by:	Rod Burrough	Nathan Taufer
Position:	Civil Manager	Senior Civil Engineer
Signed:		
Date:	17-12-2018	
Job No:	SY182-105	

REVISION STATUS

Revision	Description of Revision	Date	Issued By:
1	FOR APPROVAL	17 December 2018	Rod Burrough
2	FOR APPROVAL	14 August 2019	Rod Burrough
3	FOR APPROVAL	20 August 2019	Rod Burrough
4	FOR APPROVAL	28 August 2019	Rod Burrough
5	FOR APPROVAL	20 January 2020	Rod Burrough
6	FOR APPROVAL	22 January 2020	Rod Burrough

Recipients are responsible for eliminating all superseded documents in their possession.

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This document and its contents are intended for the addressee only and contains opinions held by the Author based on material available at the time and expresses those opinions for the purposes of consideration by the Addressee and not for general publication without written consent

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2. Introduction

2.1 Background

Van Der Meer Consulting has been commissioned by A W Edwards Pty Ltd to prepare a Water Quality Report to support a S4.55 Modification of an approved Development Application (DA) to the Lane Cove Council for a proposed office and data centre development at 1 Sirius Road, Lane Cove West.

The scope of this report includes a comprehensive assessment of Water Quality requirements for Lane Cove Council. Accordingly, this report includes findings of the assessment and proposes a best practice stormwater management strategy.

The following information and documents were utilised in this investigation:

- Sydney Water – Stormwater Quality Target 2016
- Detailed Site Survey Plans
- Architectural plans defining proposed works and existing infrastructure
- Lane Cove Council DCP – Part O: Stormwater Management

Council has advised that due to the sites' close proximity the river, on-site detention is not required for this development.

2.2 Existing Site

The site is within the Lane Cove Council LGA. It consists of a single lot which is located in west of Sirius Road, and north-west of Apollo Place and back of the building to the Lane Cove River (see Figure 1.1). Appendix C includes the survey for the existing site. The site is entirely covered by a drainage easement benefitted Lane Cove Council.

The site area is approximately 3.94 ha. The topography of the site is generally grading towards the river at 10-20%.

An upstream catchment of 5.5Ha is directed through the site. The catchment consists of the following:

- Street drainage easement from Apollo Place between Nos. 1 and 2 Apollo Place via a 375mm dia concrete pipe.
- An overland flow path at the end of Apollo between Nos. 2 and 3 Apollo Place draining excess stormwater that cannot be captured by the pipeline.
- Interallotment drainage pipes from No. 1, 2 & 3 Apollo Place.
- Sirius Road accessway.
- Street drainage easement from the end of Sirius Road across the rear of 1A Sirius Road (Harley Davidson)

- And finally, a small catchment (400m² approx.) from the low side of 3 Apollo draining the hardstand of the property.



Figure 1.1 – Site Area

2.3 Proposed Works

The proposed development involves the construction of a new 4 storey data centre building development. The development comprises approximately 65% of the site.

The building will require all existing stormwater discharge pipes to be diverted around the new building in a new pipeline to Stringy Bark Creek together with an overland flow from Apollo Place to the southwest of the site.

Lane Cove Council has recommended that the building and hardstand areas be discharged in a manner that maintains groundwater flow to surrounding bushland and wetlands. The agreed solution is to implement a series of infiltration trenches around the low side of the building on the north west and south west boundaries that will maintain groundwater levels along the perimeter of the site. In larger storm events the trenches are designed to surcharge to existing lowpoints in the site as indicated by arrows in figure 1.1

3. Stormwater Quality Control

3.1 Objectives and Targets

The quality of runoff from a catchment depends upon many factors such as land use, degree of urbanisation, population density, sanitation, waste disposal practices, landform, soil types, and climate. Pollutants typically transported by runoff include litter, sediment, nutrients, oil, grease, and heavy metals. Whilst all these pollutants have a negative impact on the receiving water quality, suspended solids and nutrients cause the highest detrimental impact to the environment.

Also, soil erosion during the construction phase presents a potential risk to water quality. The primary risk occurs while soils are exposed during earthworks when suspended sediment and associated pollutants can be washed into downstream watercourses.

Quality Requirements

Lane Cove Council has adopted the Lane Cove River Coastal Zone Management Plan and as yet no specific water quality targets have been nominated. For this reason we have adopted the Sydney Water targets recommended for use in the Management Plan. The site-specific water quality targets are outlined below in Table 2.1. It should be noted that these targets are similar to the targets set by the adjoining City of Ryde also a party to the Lane Cove River Coastal Zone Management Plan.

Pollutant	Reduction Target
Total Suspended Solids (kg/yr)	85% reduction of the annual load
Total Phosphorus (kg/yr)	60% reduction of the annual load
Total Nitrogen (kg/yr)	45% reduction of the annual load
Gross Pollutants (kg/yr)	90% reduction of the annual load

Table 2.1 – Sydney Water Pollution Reduction Targets

3.2 Water Quality Control Measures

The treatment train proposed for the redevelopment are summarised below:

Erosion & Sediment Control Plan

- During construction, water quality control is achieved by deposition and trapping of silts and clays which often have nutrients such as phosphorus and nitrogen attached to their surfaces. Silt fences will be erected prior to construction to control sediment runoff. This will reduce and isolate sediments and particulate matter.
- An Erosion and Sediment Control Plan has been provided in accordance with Council Development Control Plan (2012) and with Landcom's "Managing Urban Stormwater – Soils and Construction (2004). This will ensure that a significant portion of sediments and attached nutrients can be contained on site during construction. A copy of the Erosion and Sediment control plan is contained within the Civil Plans shown in Appendix A.

CDS Separator

- *CDS Separator* is a device to contain and retain gross pollutants, litter, sediments, and associated oils using energy of the inflow to create a vortex flow regime within the CDS screening chamber.
- Research has shown (CRCCH, 1999) that CDS can remove nearly all gross pollutant and a significant proportion of fine pollutants, particularly during storms. Moreover, as per Portland State University 2002 CDS generally remove over 95% particles greater than 215 microns with screen apertures of both 2400 microns and 4700 microns.
- Walker, Allison, Wong, Wootton, 1999) that 70% of oils can be associated with solids in the stormwater and that over a period of dry weather conditions the highest oil content was found in the sediment range of 200 to 400 microns. In the category of attached pollutant, CDS were the only Gross Pollutant Trap device that even be considered capable of capturing anything (CSIRO 1999). Based on UCLA Report 1998, CDS has an oil removal efficiency from 82-94%.
- A single CDS 1012 or approved equivalent will be used at the site discharge point.

Rainwater Tank

- 110kL rainwater tank will be placed at the proposed location within the proposed development.
- Based on the analysis using MUSIC, rainwater tank helps the reduction of the flow out by 44.5%

Filter Cartridges

- StormFilter is a proprietary device containing multiple cartridge units in a single system,
- thereby suitable for large catchments. Also, the cartridges come with various filtration
- media available to target site-specific pollutants.

- 690mm Psorb Storm Filter cartridges as detailed in the engineering drawings. A total of 15 cartridges are proposed.

Infiltration Trenches

- Infiltration trenches are suitable for holding water and slowly releasing into the surrounding soil. They assist in improving ground water levels, removing pollutants, primarily sediments and reducing runoff.
- The trench system totals 240m in length and runs along much of the north western and south western perimeter of the site. Refer appendix A for details.

3.3 Water Quality Modelling

3.3.1 MUSIC

The effectiveness of the proposed water quality measures have been assessed using numerical modelling. Water quality modelling has been conducted using the software program MUSIC (Model for Urban Stormwater Improvement Conceptualisation). This program is used to establish the effectiveness of the water quality treatment proposed for the development site. MUSIC has been developed by the Cooperative Research Centre for Catchment Hydrology, and is designed as a planning tool for water quality treatment trains for catchment runoff. The program is able to model pollutant loads present in stormwater runoff from a catchment and assess the effectiveness of different treatment devices in terms of pollutant load reduction.

The rainfall data used to develop the model was taken at six minute time intervals from 2000 to 2010 at Sydney Airport AMO Rainfall Station. The MUSIC model layout is shown in Figure 2.1.

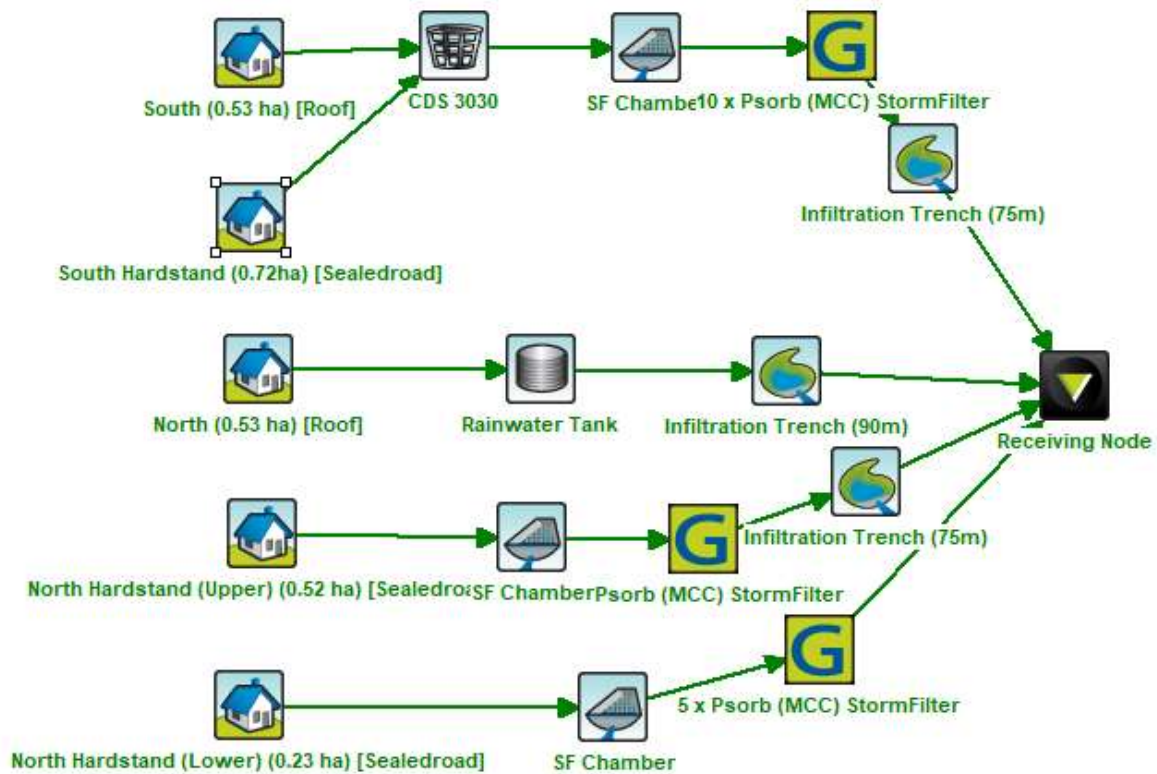


Fig. 2.1 – Water Quality Treatment Train Diagram

3.3.2 Land Use

Table 2.2 details the land use areas for the proposed development. A scaled set of civil and architectural plans are included in Appendix A and Appendix B respectively and a survey of the existing property is included in appendix C.

Land Use / Surface Type	Area (m2)
Building Roof	10,600
Impermeable/Pavement	14,700
Landscaping (Excluded in MUSIC)	14,150
Total	39,450

Table 2.2 – Land Use Areas

3.3.3 Results

Table 2.3 below shows the calculated mean annual pollutant loads for the proposed site conditions before and after the implementation of the treatment devices.

	Total Suspended Solids (kg/yr)	Total Phosphorus (kg/yr)	Total Nitrogen (kg/yr)	Gross Pollutants (kg/yr)
Pre-treatment	3910	7.56	36.4	482
Post-treatment	539	1.63	12.4	0

Table 2.3 – Summary of Treatment Train

Sydney Water Stormwater Quality Target 2016 outlines the requirements for the reduction of pollutants from stormwater before it can be discharged from the site. These targets are listed in Table 4.3 below together with the percentage pollution reductions that will be achieved by the proposed treatment train.

Pollutant	Reduction Target	Reduction Achieved	Target Achieved
Total Suspended Solids	85%	86.2.0%	YES
Total Phosphorus	60%	78.4%	YES
Total Nitrogen	45%	65.9%	YES
Gross Pollutants	100%	100%	YES

Table 2.4 – Comparison of Pollutant Reduction Target vs. Achieved

It is clear from the previous table that the proposed water quality measures enable the reduction targets to be achieved for all key stormwater pollutants. Therefore, by implementing the proposed treatment train measures within the proposed development there will be no detrimental effect on the quality of stormwater running off from the site.

4. Conclusion

The proposed development of the site could potentially lead to significant changes in water quantity and quality if a water sensitive urban design approach is not adopted as part of the development strategy.

The key strategies to be adopted for this development include the following:

1. A pit and pipe network to collect minor storm runoff from surface areas which will minimise nuisance flooding
2. CDS Separator to treat stormwater runoff before discharge into the downstream waterways;
3. 110kL rainwater tank will be used to collect storm water runoff from roof used for irrigation.
4. 3 chambers with 5, 5 and 10 filter cartridges at proposed locations.

The results from the investigations and modelling for this project that have been summarised in this report indicate the assessment of impact to the related infrastructure and ecosystem and show that the development with the proposed WSUD strategy and management can provide a safe and ecologically sustainable environment.

The proposed development and the proposed water quality treatment devices comply with the requirements of Sydney Water and Lane Cove Council.

5. References

- Sydney Water Water Quality Requirement 2016
- Lane Cove Council DCP – Part O: Stormwater Management
- “Australian Runoff Quality – A Guide to Water Sensitive Urban Design”, Engineers Australia (2006)
- “Australian Rainfall and Runoff – A Guide to Flood Estimation”, Institute of Engineers, Australia (1987)
- eWater – MUSIC Version 6.1 (Build 0.767)
- Lane Cove River Coastal Zone Management Plan – Final Draft, March 2013

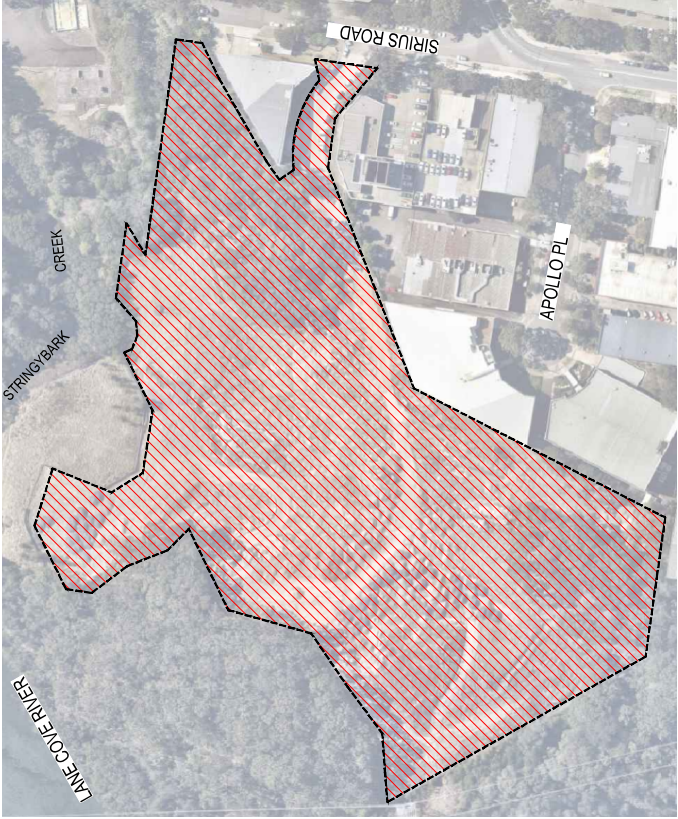
Appendix A – Civil Engineering Plans

ATSYD2 LANE COVE WEST

CIVIL DRAWING LIST

- COVER SHEET
- STANDARD NOTES
- BULK EARTHWORKS PLAN
- BULK EARTHWORKS SECTIONS
- EROSION & SEDIMENT CONTROL
- DRAINAGE LAYOUT
- TYPICAL DRAINAGE DETAILS
- 3D VISUALISATION
- DEPTH COLOUR MAP

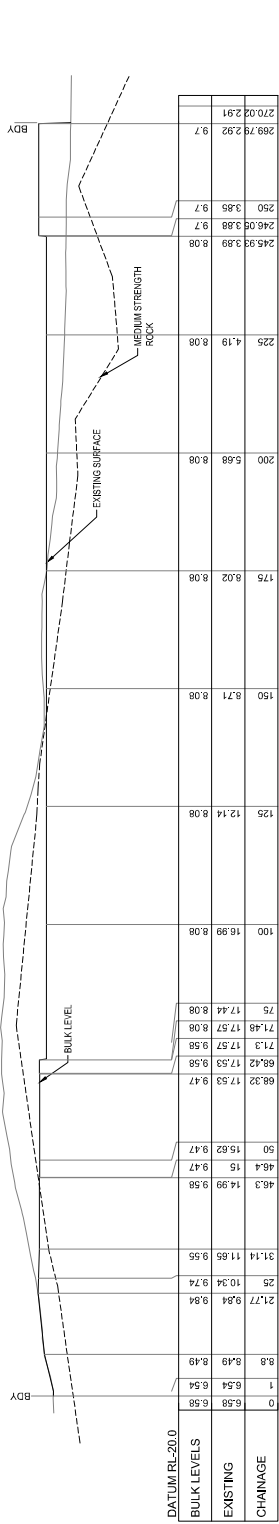
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- ATSYD2-SSD-DRG-VDM-CN-00212
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- ATSYD2-SSD-DRG-VDM-CN-00411
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- ATSYD2-SSD-DRG-VDM-CN-00812



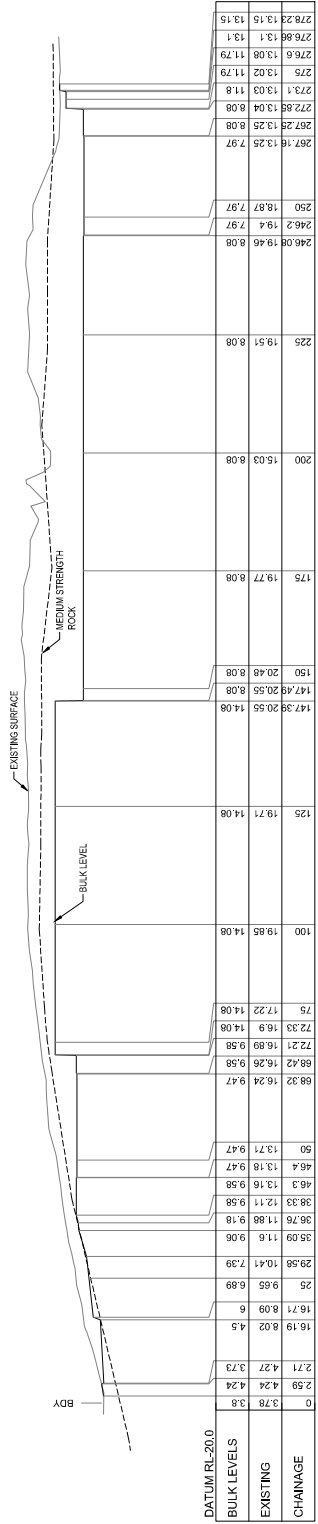
LOCALITY PLAN
N15



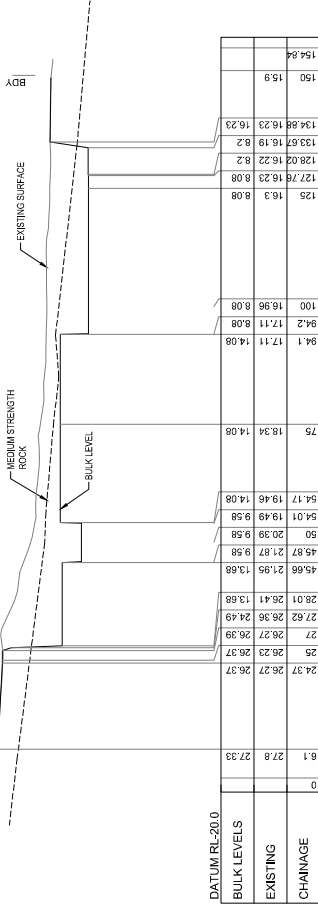
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2	20.01.20	ISSUE FOR APPROVAL



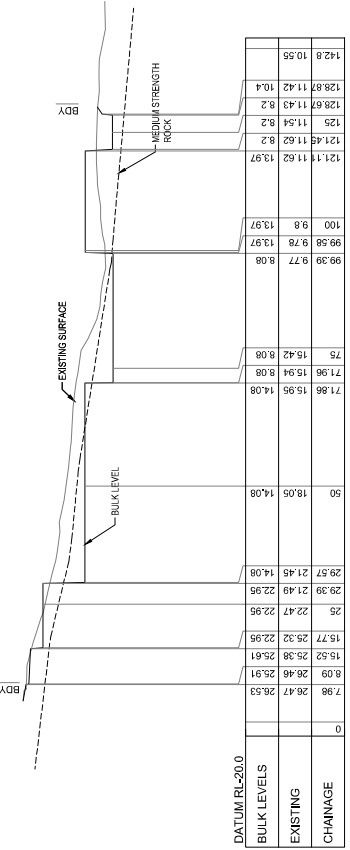
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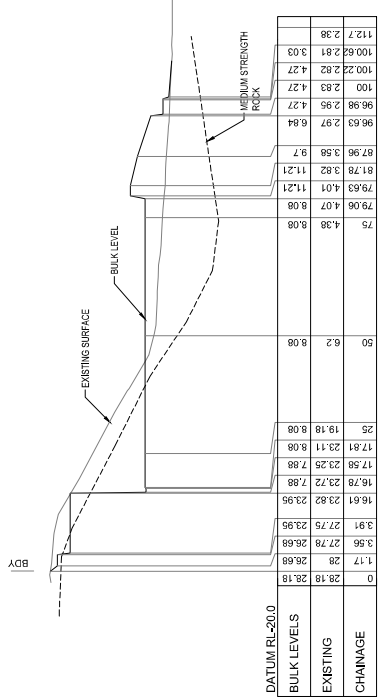
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SECTION C
SCALE 1:400



SECTION D
SCALE 1:400



SECTION E
SCALE 1/4"=1'-0"



LEGEND

STORMWATER SEDIMENT TRAPS AT ALL PROPOSED
PT INLETS

TEMPORARY CONSTRUCTION VEHICLE EXIT

SEDIMENT CONTROL FENCE

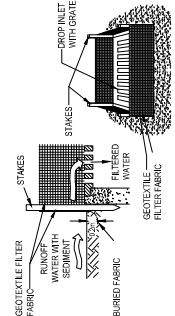
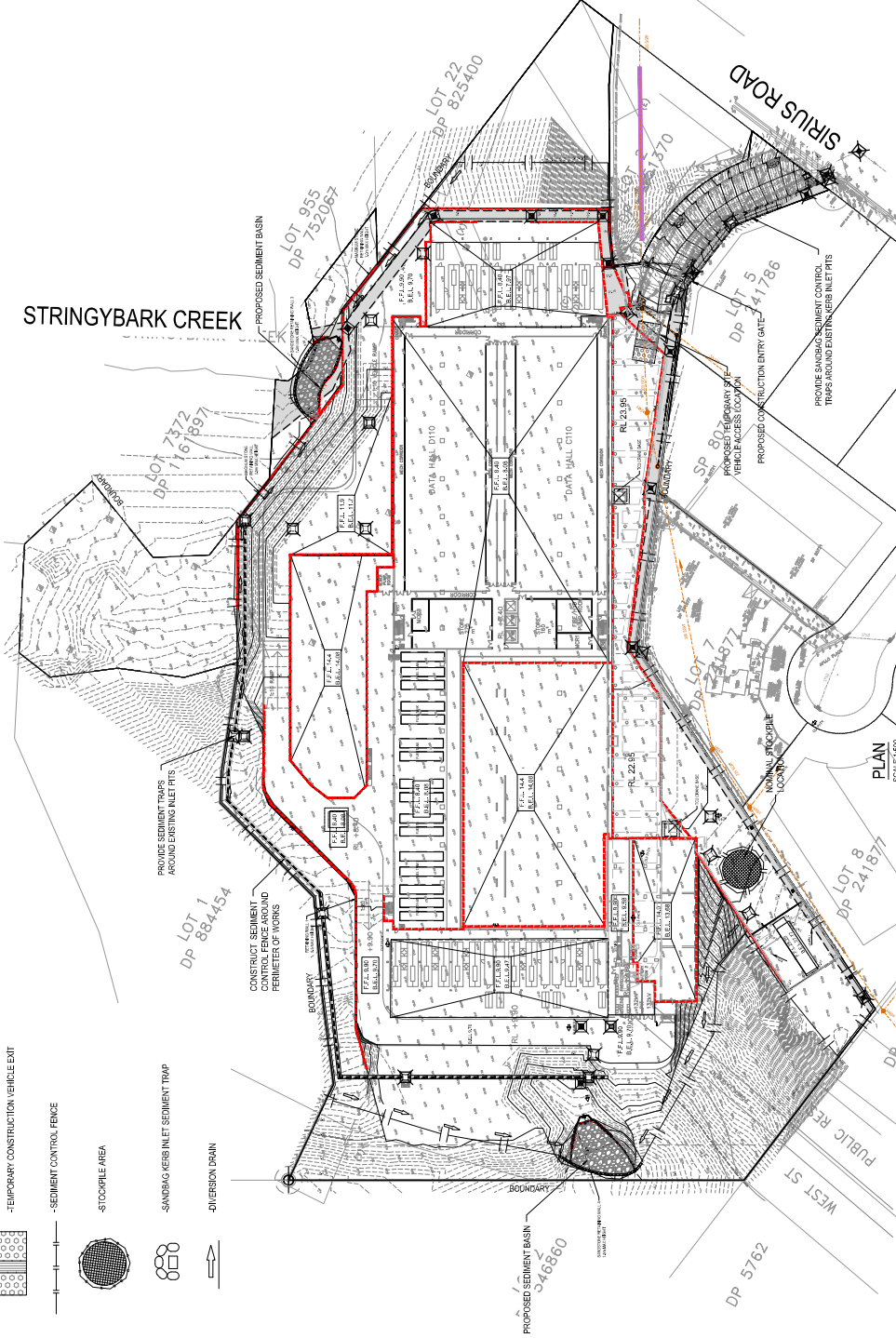
STOCKPILE AREA

SANDBAG KERB INLET SEDIMENT TRAP

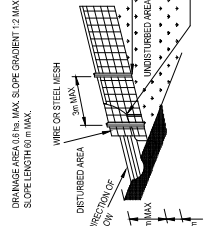
DIVERSION DRAIN

EROSION AND SEDIMENT NOTES

- B1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL DETAILS AS SHOWN
- B2. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF COUNCIL PRIOR TO THE COMMENCEMENT OF AND DURING CONSTRUCTION. NO EROSION OR SEDIMENT CONTROL MEASURES SHALL BE REMOVED FROM THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT COUNCIL'S APPROVAL. ALL EROSION AND SEDIMENT CONTROL DEVICES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL MANUAL OF THE AUSTRALIAN GOVERNMENT'S 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTIONS'
- B3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARDOUS AREAS SUCH AS ROADWAYS, DRIVEWAYS, AND FOOTPATHS. STOCKPILES SHALL BE REVEGETATED AND STABILISED ONLY (I.E. ALL FOOTPATHS, BATTERS, SITE REGARDING AREAS BASINS AND CATCHMENTS). TOPSOIL SHALL NOT BE RESPAID ON ANY OTHER AREAS UNLESS SPECIFICALLY INSTRUCTED BY THE CONTRACTOR. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REVEGETATED AS NECESSARY BY COVERING THEM WITH A MULCH AND HYDROSEEDING AND IF NECESSARY BY LOCATING BANKS OR DRAINAGE DOWNSTREAM OF A STOCKPILE TO RETARD SILT LOAD RUNOFF.
- B4. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM DEVICES SUCH AS SANDBAGS, SEDIMENT TRAPS, AND DIVERSION DRAINS. IT IS TO BE PLACED OUTSIDE THE ROAD OR DRIVEWAY OR MAIN DRAINAGE AREA. DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED OR AS DIRECTED BY THE SUPERINTENDENT OR COUNCIL.
- B5. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION. CONFINING ACCESS WHERE POSSIBLE TO NOMINATED STABILISED ACCESS POINTS.
- B6. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULAR WETTING DOWN (BUT NOT SATURATING) DISTURBED AREA.
- B7. PROVIDE AND MAINTAIN SILT TRAPS AROUND ALL SURFACE INLET PITS UNTIL CATCHMENTS ARE REVEGETATED OR PAVED.
- B8. REVEGETATE ALL TRENCHES IMMEDIATELY UPON COMPLETION OF BACKFILLING.
- B9. ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL:
- A) DOWNPIPES CONNECTED
- B) PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER
- B10. SILT FENCE MAINTENANCE INSPECTION TO BE CARRIED OUT EVERY 3 MONTHS AND AFTER EACH RAINFALL EVENT.
- B11. EROSION & SEDIMENT CONTROL SHOVAGE AVAILABLE FROM COUNCIL MUST BE ATTACHED TO THE MOST PROMINENT AVAILABLE STRUCTURE AND BE VISIBLE AT ALL TIMES WHEN ENTERING THE SITE FOR THE DURATION OF CONSTRUCTION.



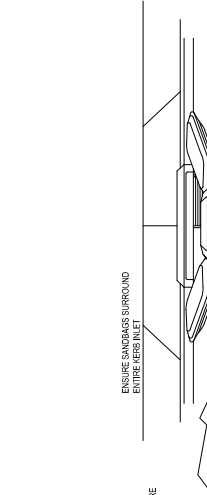
GEOTEXTILE FILTER FABRIC INLET
SEDIMENT TRAP
N.T.S.



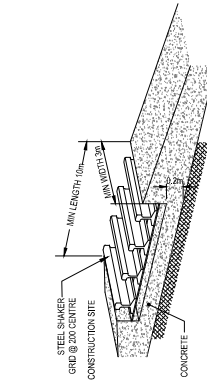
SEDIMENT CONTROL FENCE
N.T.S.



SANDBAG KERB INLET SEDIMENT TRAP
N.T.S.



TEMPORARY CONSTRUCTION
VEHICLE EXIT
N.T.S.



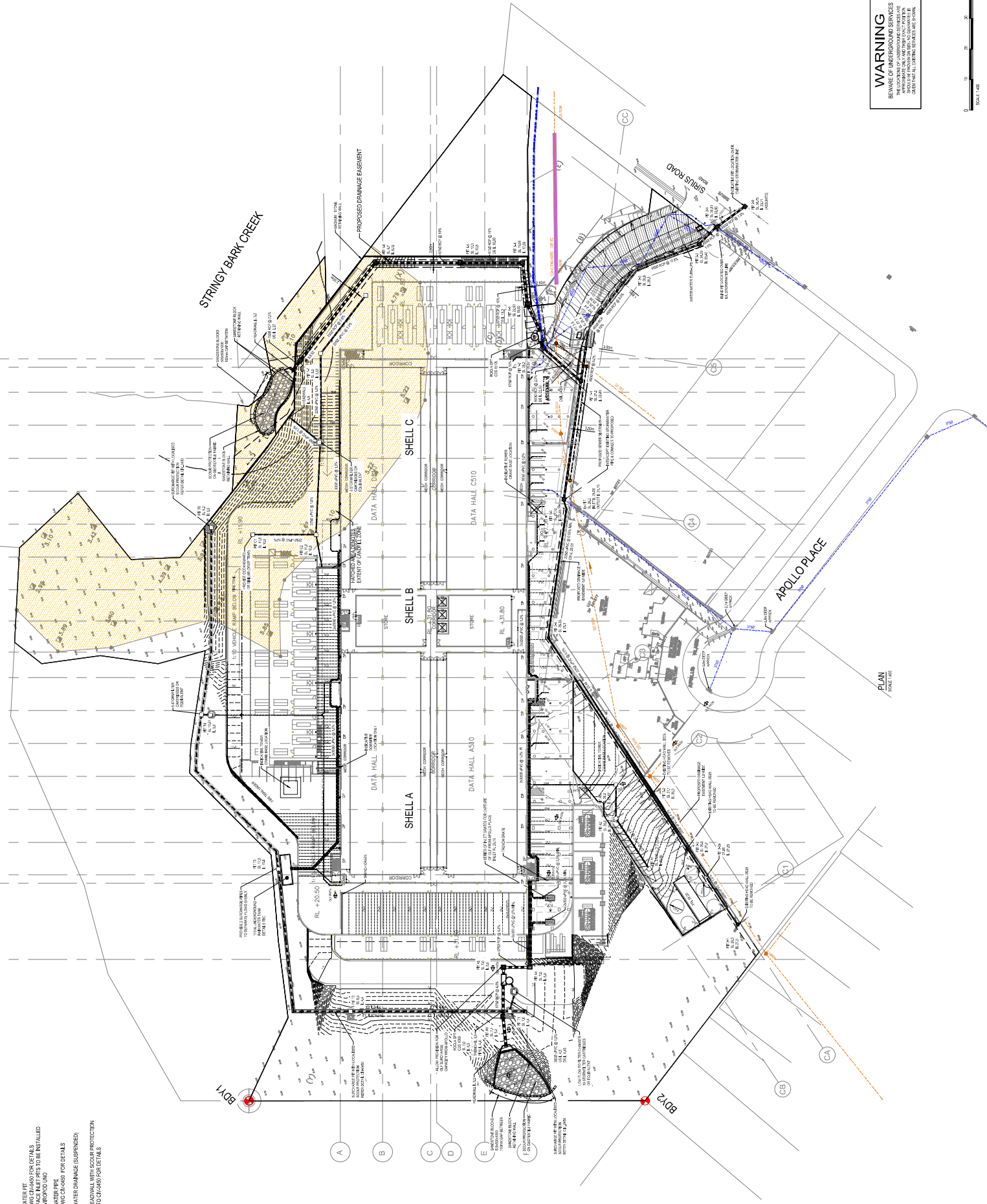
WARNING
BEWARE OF UNDERGROUND SERVICES
N.T.S.

Project information and logos for AW EDWARDS, van der Meer Consulting, AIRTRUNK, and GREENBOX.

Project Name	ATSD/02
Client	1. SIRIUS ROAD
Location	LANE COVE WEST, NEW SOUTH WALES
Scale	1:100
Author	DR. J. BROWN & ASSOCIATES
Check	DR. J. BROWN & ASSOCIATES
Drawn	DR. J. BROWN & ASSOCIATES
For Approval	EROSION AND SEDIMENT CONTROL
Project Manager	ATSD/02-001
Project Engineer	ATSD/02-001

LEGEND

- STORMWATER PIT
 - STORMWATER PIPE
 - STORMWATER DRAINAGE (SUSPENDED)
 - ROCK HEADWALL WITH SCOUR PROTECTION
- REFER TO CH-440 FOR DETAILS



WARNING
BEWARE OF UNDERGROUND SERVICES
THE LAYOUT OF UNDERGROUND SERVICES ARE
NOT SHOWN ON THIS PLAN. ANY WORK TO BE
CARRIED OUT MUST BE IN ACCORDANCE WITH
THE RELEVANT STANDARDS AND REGULATIONS.



Rev	Date	Description
1	15/11/20	ISSUED FOR I.D.
2	20/11/20	ISSUED FOR APPROVAL

AW EDWARDS
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100/101 STATION STREET
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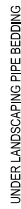
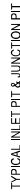
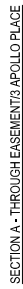
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100/101 STATION STREET
SYDNEY NSW 2000
TEL: 02 9250 1234
WWW.VANDERMEER.COM

AIRTRUNK

GREENBOX

ATSD2
LAME CONVEYOR SYSTEM

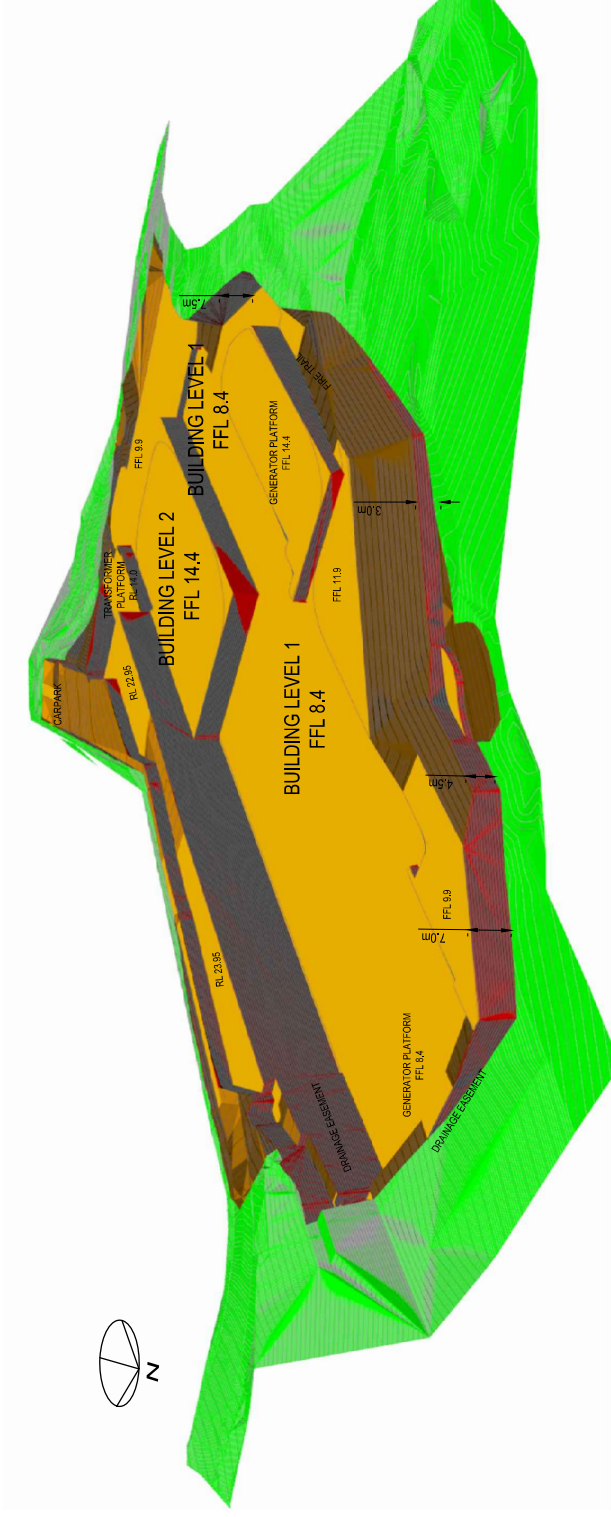
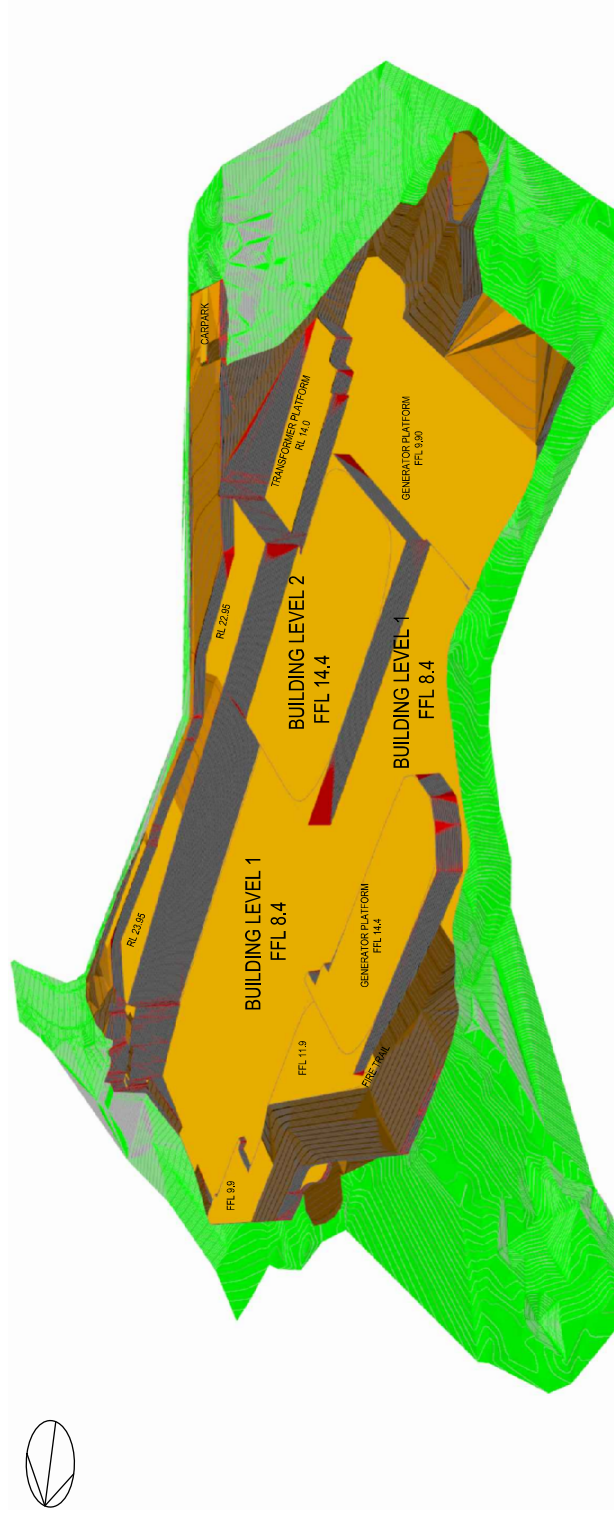
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BY	AW
CHECKED BY	AW
APPROVED BY	AW
FOR APPROVAL	
DATE	
BY	
CHECKED BY	
APPROVED BY	
ATSD2-001-001-001	
ATSD2-001-001-001	



GREENBOX

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Appendix B – Architect's Plan

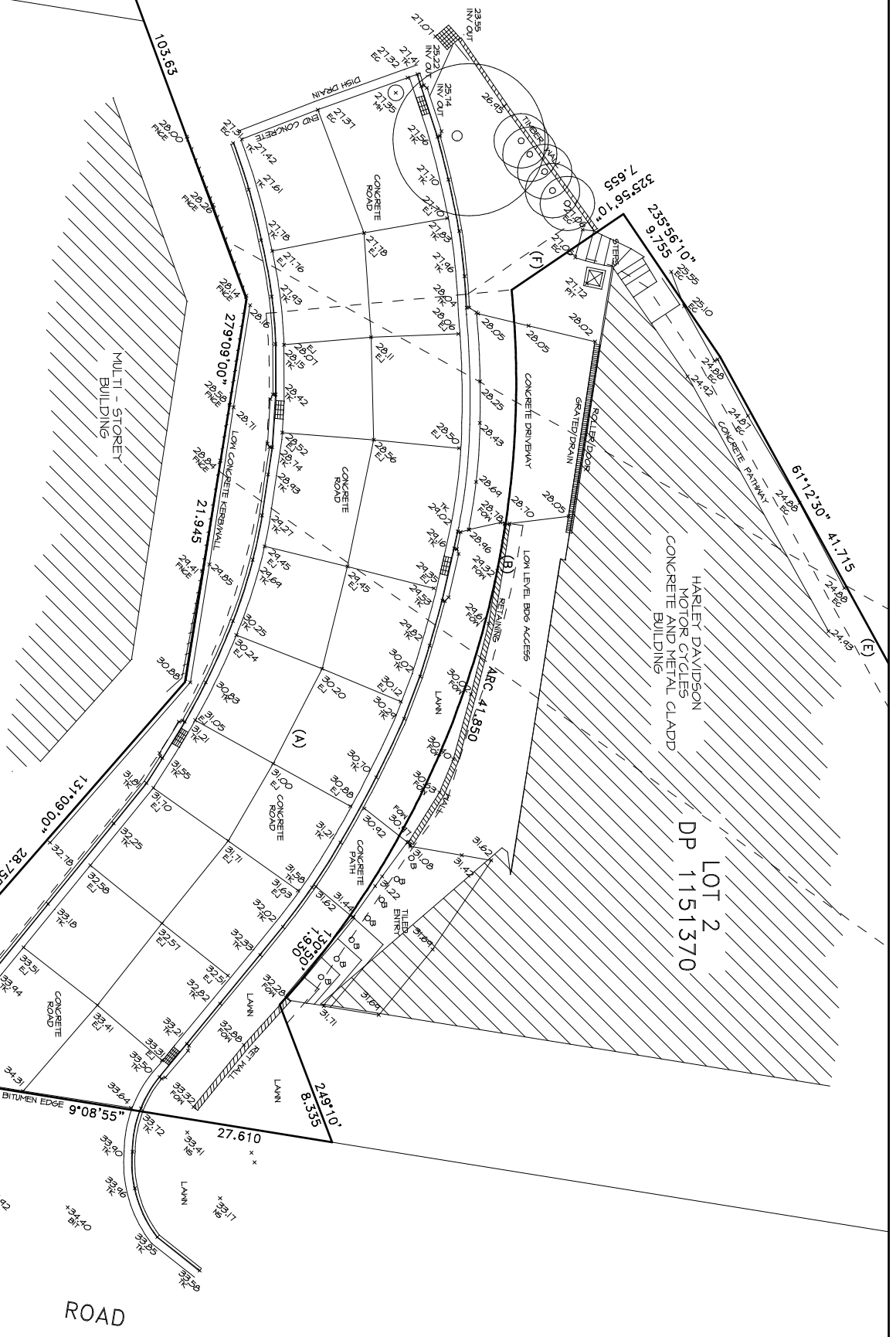
Appendix C – Site Survey

(c)
(d)

LOT 1
DP 1151370

LOT 2
DP 1151370

HARLEY DAVIDSON
MOTOR CYCLES
CONCRETE AND METAL CLAD
BUILDING



SP 80721

LOT 5
DP 241786

- (A) RIGHT OF CARRIAGEWAY VAR WIDTH DP151370
- (B) EASEMENT FOR SUPPORT AND MAINTENANCE 1 MIDE AND VAR DP151370
- (C) EASEMENT FOR DRAIN WATER AFFECTING THE OF THE LOT DP151370
- (D) EASEMENT FOR DRAINAGE AFFECTING THE WHOLE LOT DP151370
- (E) EASEMENT FOR FINE FIGHTING ACCESS 12 MIDE AND VAR DP151370
- (F) EASEMENT FOR ACCESS 12 MIDE AND VAR DP151370
- (X) EASEMENT FOR ELECTRICITY PURPOSES 7 MIDE DP646214
- (Y) EASEMENT FOR TRANSMISSION LINE DP644935

NOTES:
THE RELATIONSHIP BETWEEN FEATURES AND BOUNDARIES
IS DIAGNOSTIC ONLY
NO INVESTIGATION HAS BEEN MADE OF UNDERGROUND SERVICES
BOUNDARIES SHOWN HEREON HAVE BEEN ADOPTED FROM RELEVANT
SURVEY PLANS AND ARE SUBJECT TO CONFIRMATION BY SURVEY
ANY DEVELOPMENT CONSTRUCTION ON OR NEAR THE BOUNDARIES THE
CONSIDERS OF THE SUBJECT LAND SHOULD BE MARKED BY A REGISTERED SURVEYOR
ORIGIN OF LEVELS 594 14650 ADOPTED AS RL 41661

DRAWING STATUS		PROJECT: AIRTRUNK 1 SIRIUS ROAD LANE COVE		CLIENT: A.W. EDWARDS PTY LTD BUILDERS AND CONTRACTORS 100 NORTHBRIDGE NSW 2063 Ph (02) 9458 1414 Fax (02) 9458 6206	
SCALE 1:120 (A1)		S.P. SITE SETOUT PTY LTD CORPORATION SURVEYING UNIT 36/4 HOTEL AVENUE Marrickville NSW 2122 Telephone: (02) 9459 3316 Facsimile: (02) 9459 3318 Email: stephen@spsite.com.au		DATE 14/12/2016 DATUM A.H.D. CADD FILE REF AVE/LANE_COVE DWG No: SPI121-004 PRO	
PLAN: SHOWING RELATIVE HEIGHTS & FEATURES OVER SITE ACCESS ROAD					

LOT 1
DP 1151370

LOT 2
DP 1151370

HARLEY DAVIDSON
MOTOR CYCLES
CONCRETE AND METAL CLADD
BUILDING

INVERT IN RL 23.57

INVERT OUT RL 23.57

INVERT OUT RL 25.73

INVERT IN RL 25.79

INVERT IN RL 25.27

DISH DRAIN

MH

END CONCRETE

CONCRETE

ROAD

INVERT OUT RL 27.22

CONCRETE

ROAD

LOW CONCRETE KERBSIDE

MULTI - STOREY
BUILDING

SP 80721

LOT 5
DP 241786

x

NOTES:

THE RELATIONSHIP BETWEEN FEATURES AND BOUNDARIES
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NO INVESTIGATION HAS BEEN MADE OF UNDERGROUND SERVICES

BOUNDARIES SHOWN HEREON HAVE BEEN ADOPTED FROM RELEVANT
SURVEY PLANS AND ARE SUBJECT TO CONFIRMATION BY SURVEY

ANY DEVELOPMENT CONSTRUCTION ON OR NEAR THE BOUNDARIES THE
CORNERS OF THE SUBJECT LAND SHOULD BE MARKED BY A REGISTERED SURVEYOR

ORIGIN OF LEVELS 56M 14650 ADOPTED AS RL 41.661

DRAWING STATUS

PROJECT:

AIRTRUNK
1 SIRIUS ROAD
LANE COVE

CLIENT:

A.W. EDWARDS PTY LTD

BUILDERS AND CONTRACTORS
10/11-12/13 NORTHBRIDGE NSW 2063
Ph (02) 9450 1414 Fax (02) 9450 6206

S.P. SITE SETOUT PTY LTD

COMPETITION SURVEYING
UNIT 36/4 HOTEL AVENUE
MORRISVILLE NSW 2746
Telephone: (02) 9654 3316
Facsimile: (02) 9654 3310
Email: stephen@spsite.com.au

SCALE 1:120 (A1)

DATE 05/08/2019 DATUM AHD

CADD FILE REF AWE/LANE_COVE

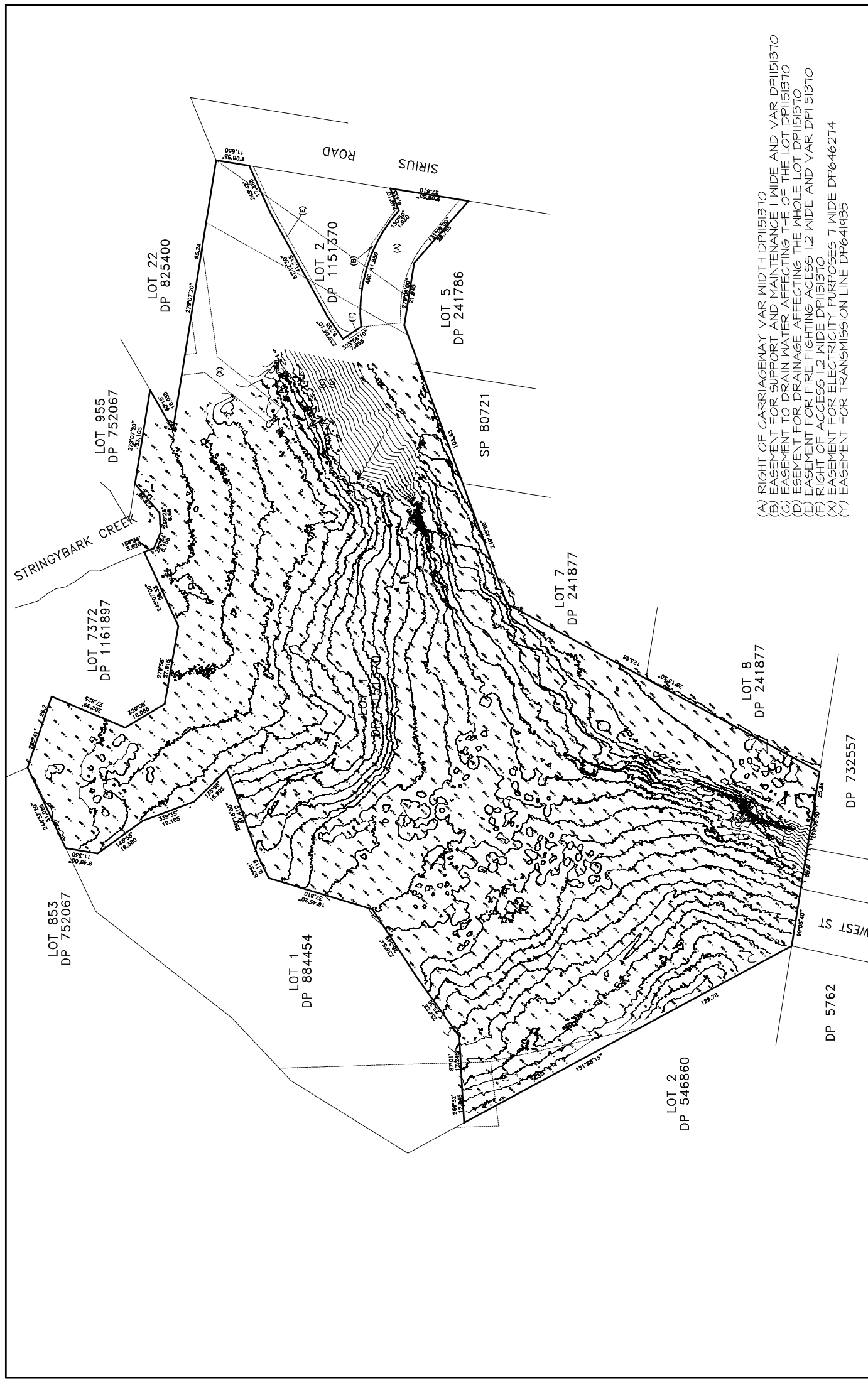
DWG No. SPI121-026 PRO

PLAN:

SHOWING ROAD DRAINAGE
PIT LOCATIONS AND INVERTS

INVERT IN RL 35.22
NEXT PIT NOT FOUND
INVERT OUT RL 35.20

SIRIUS
ROAD



- (A) RIGHT OF CARRIAGEWAY VAR WIDTH DP1151370
- (B) EASEMENT FOR SUPPORT AND MAINTENANCE 1 WIDE AND VAR DP1151370
- (C) EASEMENT TO DRAIN WATER AFFECTING THE OF THE LOT DP1151370
- (D) EASEMENT FOR DRAINAGE AFFECTING THE WHOLE LOT DP1151370
- (E) EASEMENT FOR FIRE FIGHTING ACCESS 1.2 WIDE AND VAR DP1151370
- (F) RIGHT OF ACCESS 1.2 WIDE DP1151370
- (X) EASEMENT FOR ELECTRICITY PURPOSES 7 WIDE DP646274
- (Y) EASEMENT FOR TRANSMISSION LINE DP641935

DRAWING STATUS	PROJECT:		AIRTRUNK 1 SIRIUS ROAD LANE COVE		CLIENT:		A.W. EDWARDS PTY LTD BUILDING AND CIVIL WORKERS 31 SAUL ONS BAY ROAD NORTHBRIDGE NSW 2063 Ph (02) 4458 1474 Fax (02) 4458 6208		 S.P. SITE SETOUT PTY LTD 000524002000 SURVEYING UNIT 36/4 HOTYLE AVENUE GLADSTONE NSW 4214 Mobile: 0411 315 374 Telephone: (02) 4654 3316 Facsimile: (02) 4654 3318 Email: stephen@spstie.com.au	SCALE		1:600 (A1)		PLAN:		SHOWING EXISTING LEVELS OVER SITE		SHEET 1 OF 9	
										DATE		17/04/2018		DATUM		A.H.D			
												CADD FILE REF		ANE/LANE_COVE					
												DWG No:		SP121-COI.PRO					