

## H.9 Stormwater360 Proprietary Devices

### H.9.1 STORMFILTER®

The second potential SQID proposed for SICEEP PPP development is the StormFilter, also a Stormwater 360 product. As a stormwater management device, the StormFilter (see Figure H.11) is a best management practice designed to remove a range of target pollutants including fine solids, soluble heavy metals, oils and total nutrients. Apart from meeting stringent regulatory requirements, the StormFilter systems are usually installed below ground allowing savings in land space and hence increase development yield. StormFilter's compact design reduces construction and installation costs by limiting excavation. Small to medium sized chambers can be delivered on-site fully assembled, whereas the larger types can be constructed from precast components or cast-in-place. Shown in Figure H.12 and Figure H.13 are examples of a fully assembled chamber and a chamber that is constructed out of precast components respectively.

StormFilter systems can be configured to suit flat sites and sites with shallow groundwater levels. Hydraulic drops for StormFilters range from 0.55 to 0.93 m. Likewise, with no metallic component, StormFilters are also suited at sites with salty groundwater conditions (personal communication with Stormwater360). We note that the SICEEP is close to the Darling Harbour and salty groundwater could potentially inundate the system during high tide events.



Figure H.11 A fully installed and operational StormFilter system  
(Source: *Stormwater360*)



Figure H.12 A fully assembled treatment chamber being hoisted in place  
(Source: *Stormwater360*)



Figure H.13 A treatment chamber constructed out of precast panels

(Source: *Stormwater360*)

The StormFilter system usually includes the inlet and outlet pipes, a treatment chamber, an internal weir and bypass mechanism. The bypass mechanism protects the chamber from high flows and ensures the captured pollutants are not lost during high intensity storm events. The system can be configured to either create the required drop or work around the limited drop without impacting the performance of the system.

Stormwater360 recommends the use StormFilter in combination with Enviropod pit inserts to ensure treatment of the whole spectrum of stormwater pollutants. This combination or treatment train approach, called SFEP, uses the Enviropod pit inserts as the at-source or primary treatment measure and the StormFilter, usually located near the outlet of the catchment, as the secondary treatment measure. The SFEP screening and enhanced filtration process is indicated in Figure H.14.

As with pit inserts, the StormFilter devices may be substituted, during design development by landscape features or alternative devices such as centralised GPTs. Further modelling will be undertaken during the design development stage, to investigate alternative solutions.

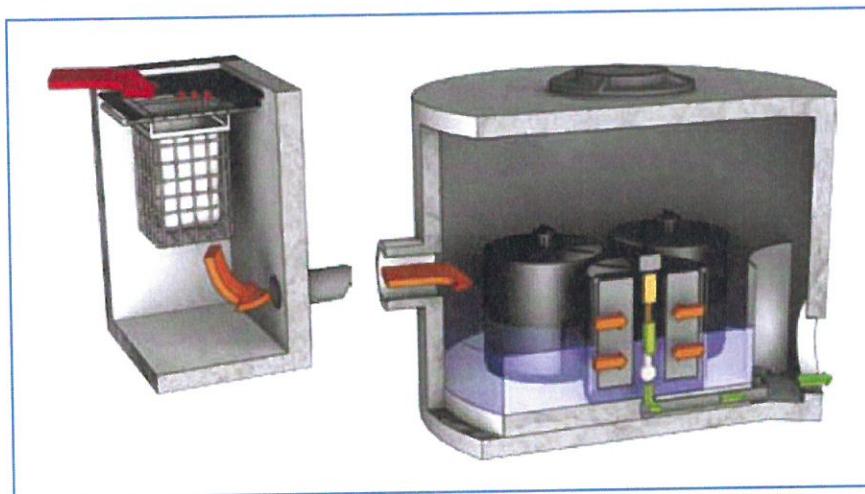


Figure H.14 Screening and enhanced filtration of stormwater pollutants in an SFEP treatment train

(Source: *Stormwater360*)

Stormwater360 has conducted field testing of the StormFilter device under Australian conditions with the assistance of experts from the Australian academe. The treatment efficiencies of the StormFilter system, when used in the SFEP treatment train in reducing gross pollutants, TSS, TP and TN are 100%, 74%, 49% and 32% respectively. As with the Enviropods, these treatment efficiencies were derived from the result of the Kuranda field testing that is discussed in Appendix H.

Like any infiltration system, pollutants retained by the StormFilter system must be periodically removed to restore the system to its fully efficiency and effectiveness. Maintenance requirements and frequency are dependent on the pollutant load requirements of the site. Additional maintenance activities may be required in the event of a chemical spill or due to excessive sediment loading from site erosion or extreme storms.

In consideration of Council and developers, StormFilters are specifically designed to reduce maintenance requirements compared to alternatives such as raingardens. Annual maintenance only involves cleaning of the chamber and the cartridges. Replacement of the filtration media cartridge is required after a designated period.

Stormwater360 offers a Maintenance Service for a designated period to achieve a cost-effective turnkey solution for maintaining the stormwater system and to ensure ongoing regulatory compliance.

StormFilter systems will be installed, either on-line or off-line, at appropriate locations within SICEEP generally within the shared zones and adjoining the Boulevard.

## H.9.2 SFEP TREATMENT TRAIN FIELD TESTING (INFORMATION PROVIDED BY STORMWATER360)

In 2005, a field evaluation of the SFEP technology was undertaken near the township of Kuranda. Stormwater360 supplied the product, sampling equipment and guidance on installation of the devices. The site was installed and wholly funded by QLD Department of Main Roads and was monitored over an extended period of time by James Cook University (JCU, 2008). This study was extended by Stormwater360 (Kuranda) for an additional 2 years to expand the data set. The results obtained by Stormwater360 were also independent as Cairns Water was engaged for sampling collection and analysis together with the program being overseen by a peer reviewer from Queensland University of Technology. The research referred to herein provides information to inform the performance claims of both the Enviropod and StormFilter technologies.

The site setup, equipment and monitoring protocols were independent and identical for both the JCU and Kuranda studies. The peer reviewer's assessment of the Kuranda study found that "...the data collection has been based on a very rigorous and technically demanding monitoring program. This adds further credibility to the field evaluation undertaken." (Goonetilleke, 2010). The data from the JCU and Kuranda studies have been correlated and published in the Australia Water Association's Water Journal in September 2011.

**Table 2. Summary of results.**

Analyte	No. of events	Range of Influent EMCs (mg/L)	Median Influent EMC (mg/L)	Range of Effluent EMCs (mg/L)	Median Effluent EMC (mg/L)	Mean Removal Efficiency (Sum of Loads)
SSC	6	75 to 4384	1181	8 to 63	20	99%
SSC < 500 micron	6	48 to 180	105	8 to 62	20	78%
TP	6	0.08 to 0.19	0.123	0.02 to 0.15	0.055	47%
TN	6	0.6 to 1.5	1.045	0.2 to 0.9	0.615	44%
TKN	6	0.6 to 1.2	1.007	0.175 to 0.800	0.515	49%
NH3-N	6	0.05 to 0.15	0.050	0.05 to 0.07	0.050	31%
TOC	6	3 to 16	7	3 to 10	5	32%
DOC	6	3 to 12	7	3 to 11	6	21%

## H.9.2 LIVE ROOF® SYSTEM

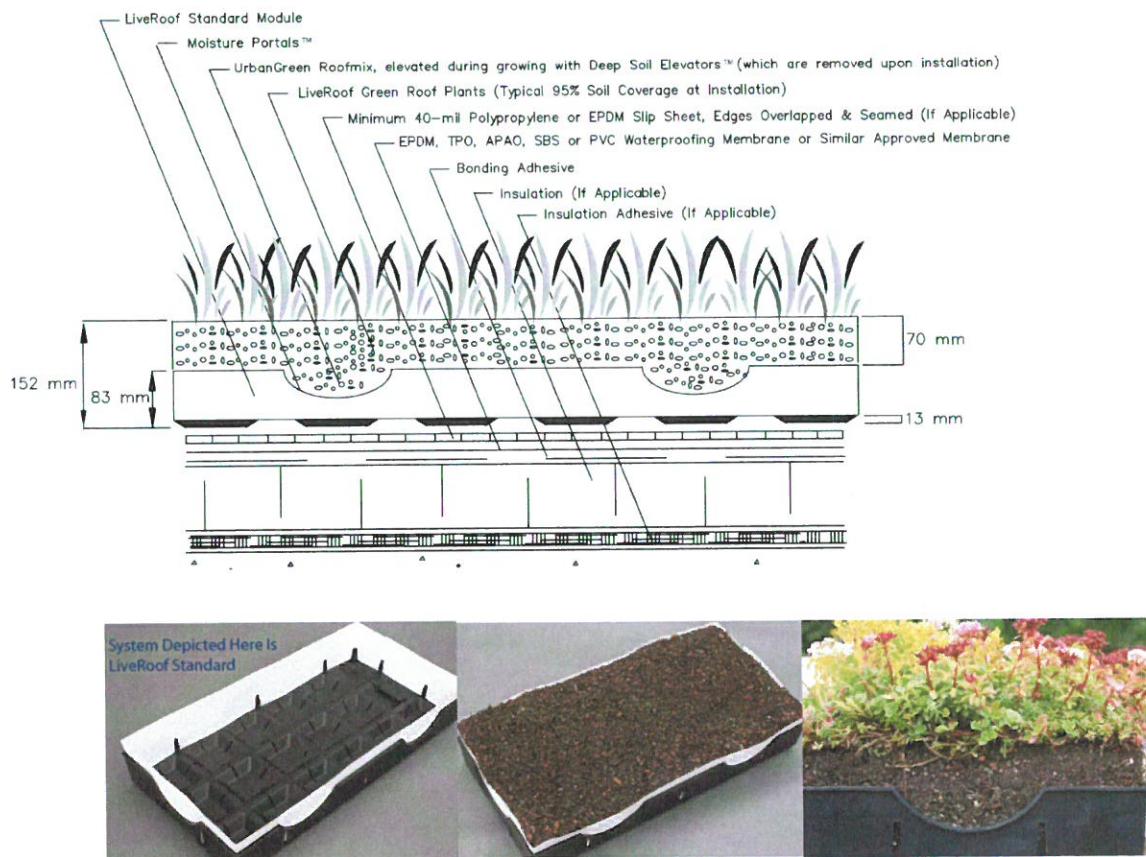
LiveRoof is a modular a pre-vegetated engineered green roof system that is easily installed onto the roofing membrane in a similar manner to readymade lawn products. Pre-vegetation of LiveRoof® is undertaken at local nurseries using localised plant stock for approximately three months prior to installation. This means that only strong, mature plants are installed onto the roof top. The LiveRoof solution can be applied to the green roof of the ICC Exhibition south building. The system can also be utilised for the sloping roofs of the

entrance of the ICC Exhibition south building. Given the roof's steep pitches, LiveRoof will ensure a healthy strong living roof in the shortest possible time to reduce the possibility of wind and rain scour.

Recently Stormwater360 has developed the 'UrbanGreen' range of Low Impact Design solutions. One of these products being the LiveRoof® modular green roof system. LiveRoof® is a pre-vegetated engineered solution that is easily installed onto the roofing membrane in a similar manner to readymade lawn products.

LiveRoof® is pre-vegetated at local nurseries using localised plant stock for approximately three months prior to installation. This means that only strong, mature plants are installed onto the roof top. Given that the project has steep roof pitches, this approach will ensure a healthy strong living roof in the shortest possible time to reduce the possibility of wind and rain scour.

LiveRoof® is a modular pre-vegetated green roof system developed by horticulturalists in a collaborative effort with experts in the fields of logistics, architecture, manufacturing, construction, green roofing and ergonomics. Stormwater360 works with experienced local nurseries and horticultural specialists to offer the most appropriate planting for the project.



Each LiveRoof® module arrives at the job site with full-grown plants inside the container and is simply set in place on the rooftop. The Soil Elevators™ are then removed for a seamless fit, meaning there is no need to start with a brown roof and farm it for years, waiting for it to become a green roof.

The main difference between LiveRoof® and a traditional 'built in place' approach to construct a green roof is that LiveRoof® is:

- pre-grown at a nursery and
- installed using minimal equipment,

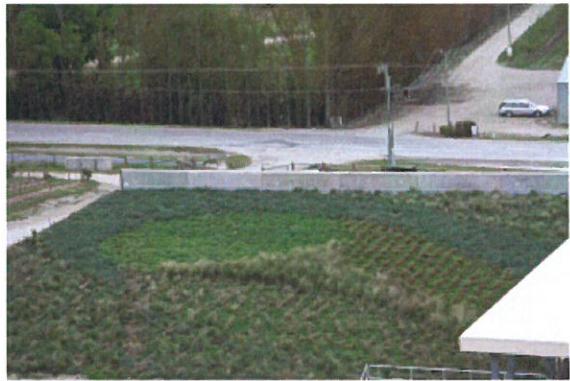


This means less chance of penetrating the waterproofing membrane during installation and higher success rate of planting, with minimal maintenance costs.



The unique features and benefits of LiveRoof® are as follows:

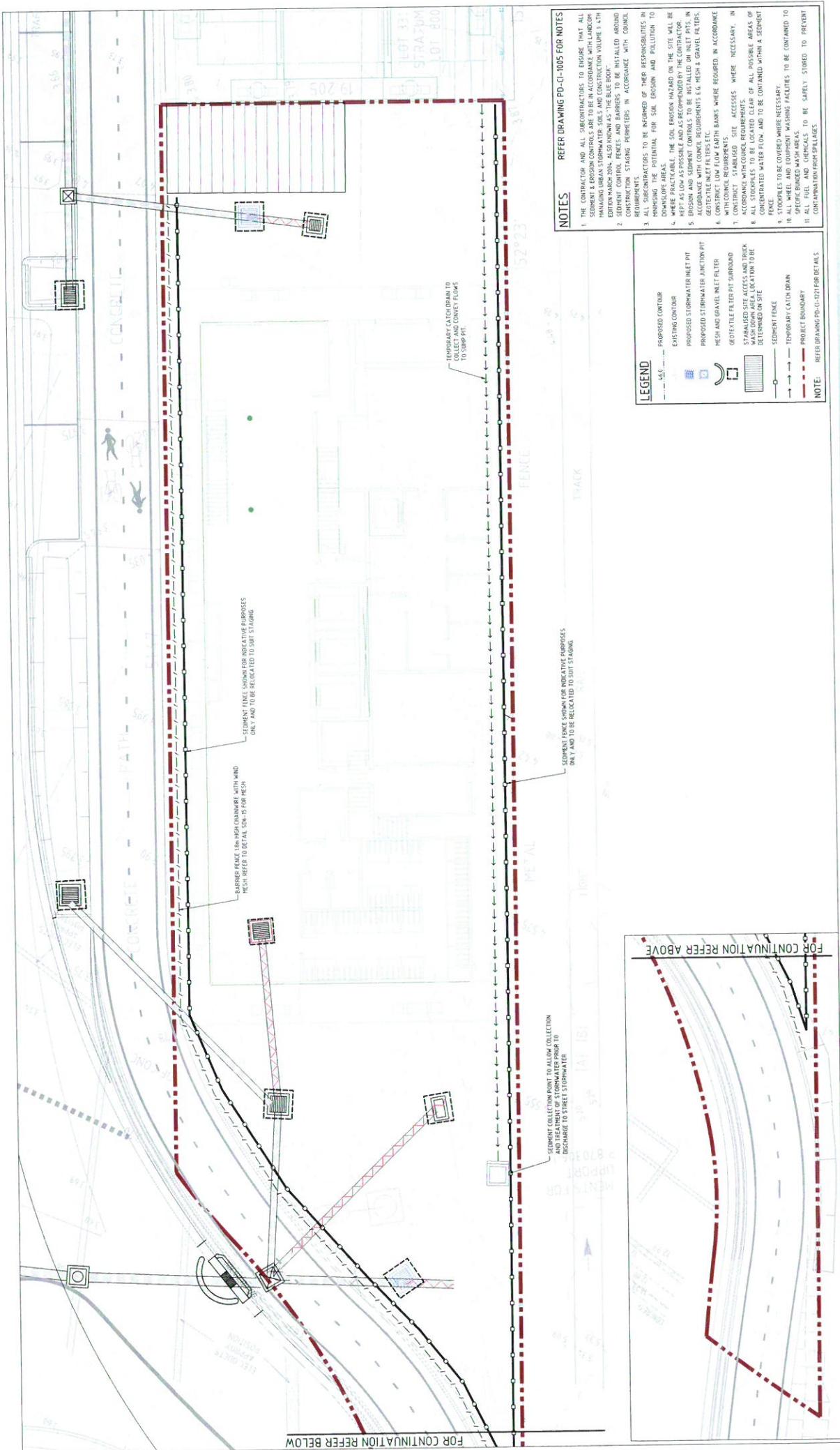
- Quick & easy installation: Most of the installation work can be done on the ground. It's safer, faster, and costs less than working on the roof. Arranging/installing modules on the roof is all that's required.
- Quality assurance process: The LiteRoof™ soil mix and vegetated tray undergo stringent quality assurance procedures to ensure that they meet New Zealand and international guidelines and to ensure that only the strong and healthy plants are installed.
- Fully grown upon installation: LiveRoof® is delivered and installed pre-vegetated for immediate enjoyment of the appearance and benefits from day one.
- Unique Hybrid Design: No visible seams or grid appearance upon installation.
- No filter fabric or drainage board is required. The drainage board is integrated in the module and the carefully engineered growing medium minimises the amount of fines to preventing clogging. Unlike the built-in-place systems, there aren't heavy layers of additional water-retention fabrics, drainage layers, etc. which can be prone to clogging over time.
- No water reservoirs are present in the patented LiveRoof® modules as water build-up causes root rot.
- Engineered UrbanGreen LiteRoof™ Mix inorganic soil has minimal degradation, so plant crowns do not become exposed and damaged, and soil structure is retained over time to ensure good drainage.
- Minimal maintenance is required, and minimal watering is necessary under normal climate conditions.



## APPENDIX B

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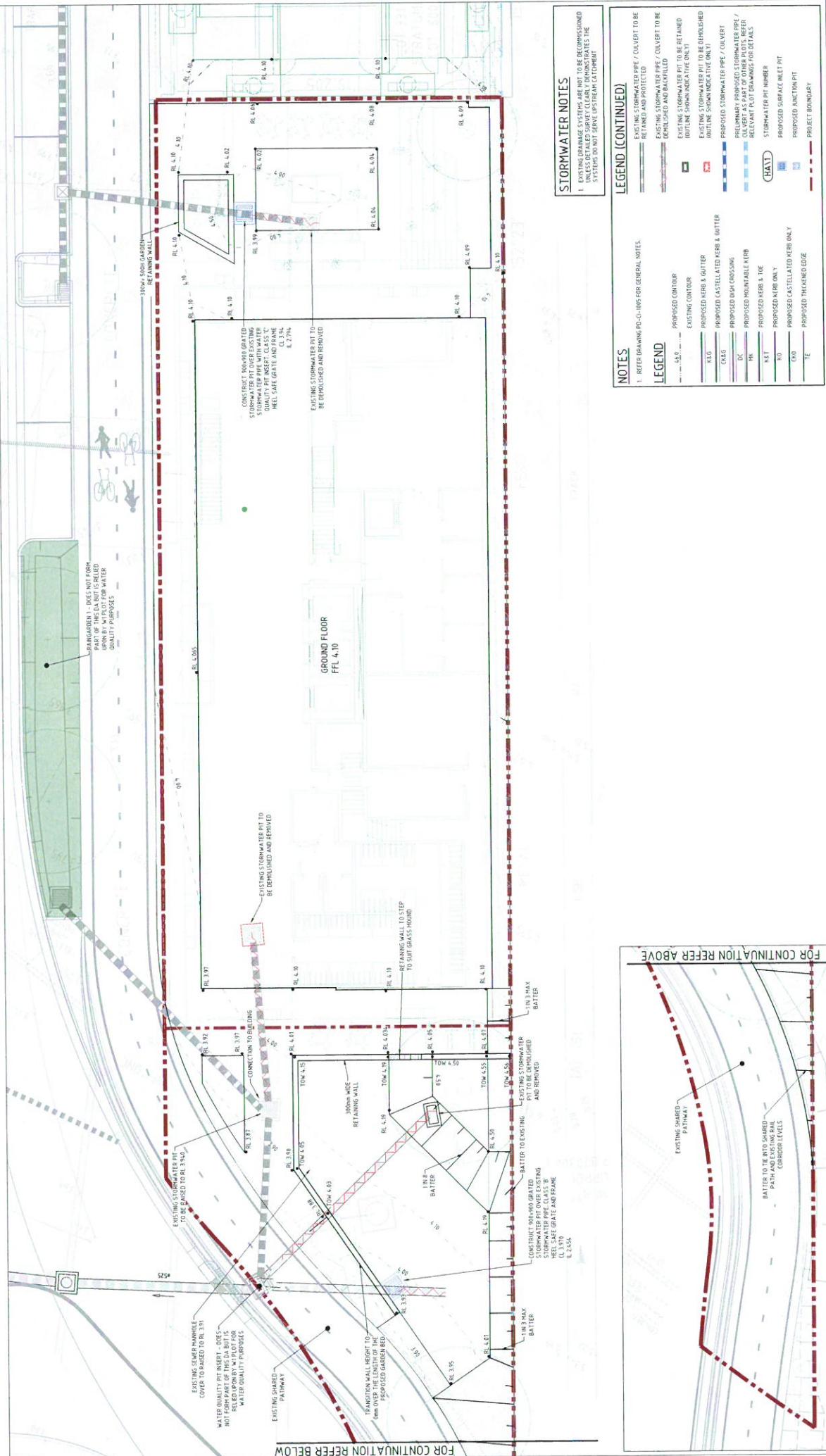
### SEDIMENT AND EROSION CONTROL PLAN



## APPENDIX C

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### CIVIL WORKS AND STORMWATER PLAN

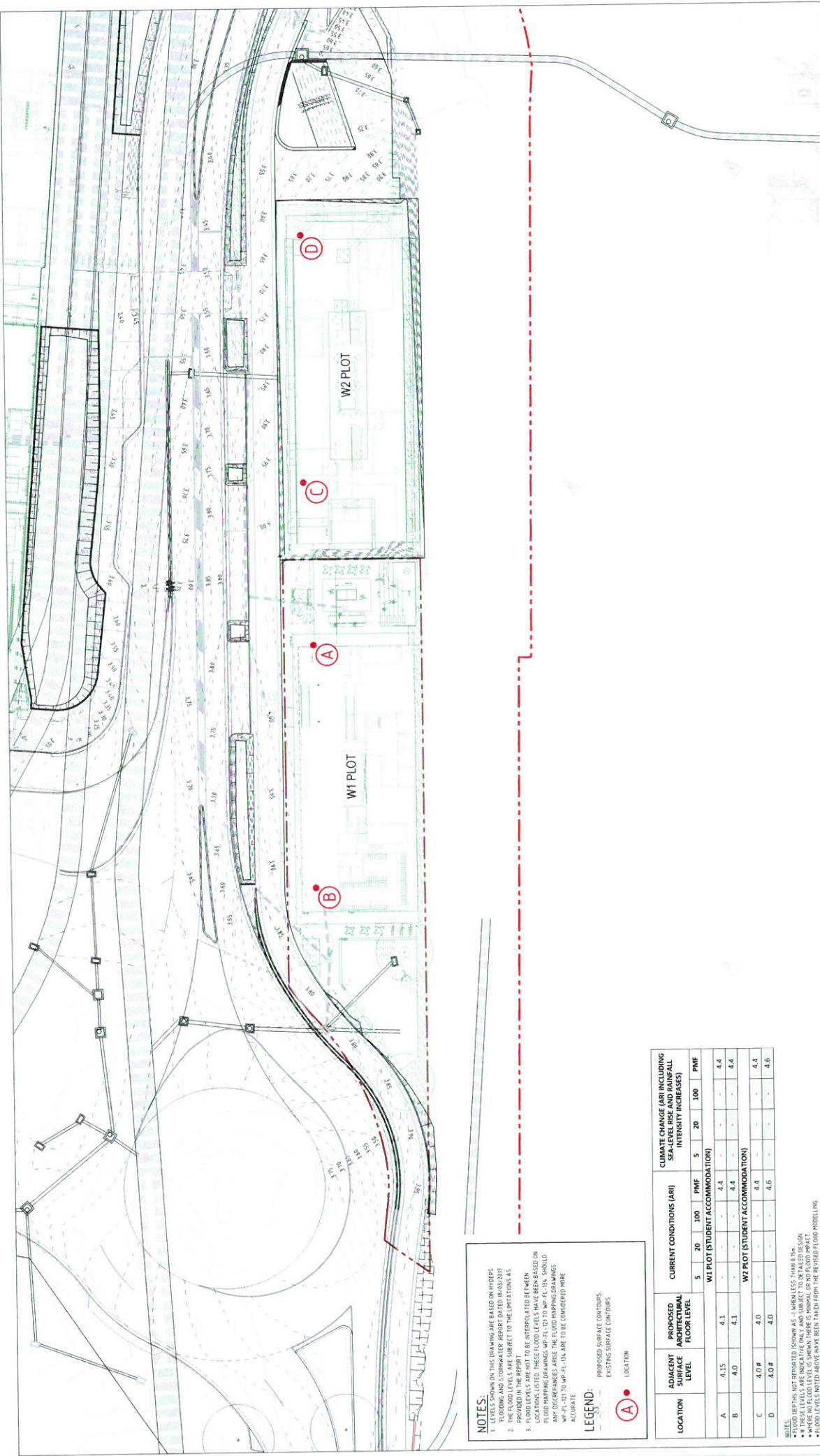


NOTES		DRAWING TITLE	
<p>1. COALESMING DIMENSIONS USE UNTHICKENED LINES ONLY.          2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.          3. ALL DIMENSIONS ARE TO THE NEAREST 5MM.          4. ALL DIMENSIONS ARE TO BE SEENED ON SITE          BEFORE PROCEEDING WITH WORKS. WORKER SHALL BE NOTIFIED IN WRITING          OF ANY DISCREPANCIES.          5. THIS DRAWING IS FOR INFORMATION ONLY AND IS NOT A CONTRACTUAL DOCUMENT.          6. THIS DRAWING CONTAINS COLOUR AND MUST ONLY BE PRINTED OR COPIED          IN COLOUR.</p>		<b>CIVIL WORKS AND STORMWATER PLAN</b>  <b>ASPECT STUDIOS</b> <small>ASPECT STUDIOS &amp; 61 MARYLEBONE HIGH ST, SURREY HILLS NSW 2010</small> 	
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## APPENDIX D

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### PROPOSED FLOOR LEVEL GRADING AND FLOOD LEVEL (INCLUDING CLIMATE CHANGE) PLAN



SONEY INTERNATIONAL CONVENTION, EXHIBITION AND ENTERTAINMENT PRECINCT

DRAWING TITLE		W1 PLOT PROPOSED FLOOR LEVEL GRADING AND FLOOD LEVEL (INCLUDING CLIMATE CHANGE) PLAN			
STANDS		PRELIMINARY ONLY			
DRAWN	DESIGNED	REVIEWED	APPROVED	SCALE	1:500
JW	CM	MK	REV	02	02
PROJECT NUMBER		SKCPD			
DRAWN BY SIGNATURE		APPROVED SIGNATURE			
DATE		DATE			

**DARLING HARBOUR LIVE**

REFERENCE MAP	NOTES
	<ol style="list-style-type: none"> <li>1. DO NOT SCALE FROM DRAWINGS WORK TO WRITTEN DIMENSIONS ONLY.</li> <li>2. ALL DIMENSIONS IN METRES UNLESS INDICATED OTHERWISE.</li> <li>3. ALL COORDINATES TO MGA 55 ELLIPSE 2 AND UTM 55 NAD 2000.</li> <li>4. ALL COMMISSIONS, COORDINATES AND LEVELS TO BE VERIFIED ON SITE AND ANY CHANGES MADE TO THE WORK SHALL BE NOTIFIED IN WRITING AND APPROVED BY THE CONTRACTOR.</li> <li>5. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS AND DRAWINGS.</li> </ol>
P.P.P.	
1: 500	

**ASPECT Studios™**

LANDSCAPE ARCHITECT STUDIO 61, LEVEL 6, MARLBOROUGH STREET, GUNYOO HILLS, NSW 2010

**CIVIL TRAFFIC FAUCES**

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CONSULTANTS

**Hyder**

**PROJECT**  
**SICEEP**  
**DARLING HARBOUR PRIVATE DEVELOPMENT AREA (PDA)**

Approved Drawn Sign. An - 02 \* Stamp

# SYDNEY INTERNATIONAL CONVENTION, EXHIBITION AND ENTERTAINMENT PRECINCT (SICEEP)

## DARLING SQUARE

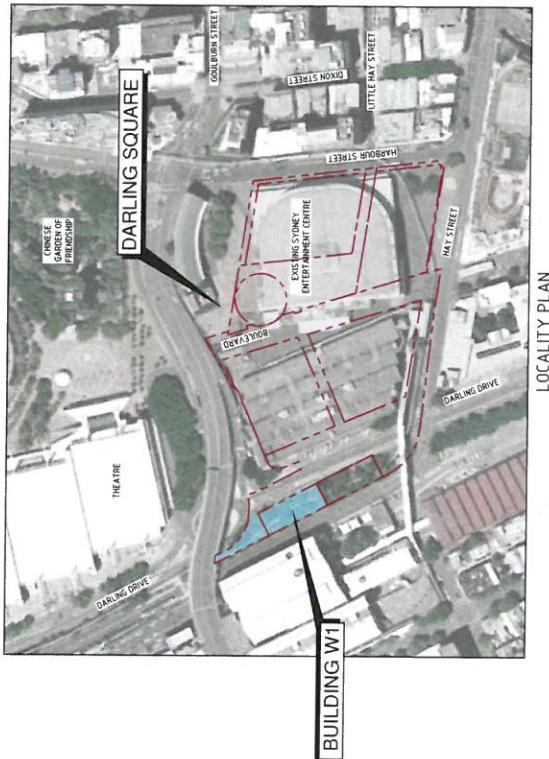
### WESTERN PLOT BUILDING W1 DEVELOPMENT APPLICATION



Hyder

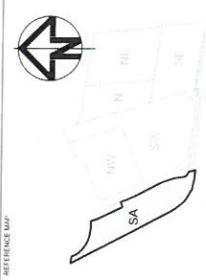
**inSW**  
Infrastructure  
New South Wales

DARLING  
HARBOUR  
LIVE



LOCALITY PLAN  
N.T.S.

#### DARLING HARBOUR LIVE



REFERENCE MAP



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GENERAL	TITLE SHEET I AND LOCALITY PLAN	
	PD-C-1001	PD-C-1002
DRAWINGS LIST	PD-C-1005	PD-C-1005
GENERAL NOTES SHEET 1	PD-C-1006	PD-C-1006
GENERAL NOTES SHEET 2	PD-C-1011	PD-C-1011
GENERAL AND CHANGES PLAN (GCD)	PD-C-1021	PD-C-1021
SURVEY AND EXISTING SERVICES PLAN (SEPS)		
SURVEY AND EXISTING SERVICES PLAN (REBORT BIRD GROUP)		
<u>SITE PREPARATION</u>		
BULK EARTHWORKS PLAN	PD-C-1151	PD-C-1151
<u>SEDIMENT AND EROSION CONTROL</u>		
SEDIMENT AND EROSION CONTROL PLAN	PD-C-1201	PD-C-1201
SEDIMENT AND EROSION CONTROL DEAILS		
<u>CIVIL WORKS</u>		
CIVIL WORKS AND STORMWATER PLANNING	PD-C-1301	PD-C-1301
<u>STORMWATER DRAINAGE</u>		
STORMWATER DRAINAGE CATCHMENT PLAN	PD-C-1551	PD-C-1551
<u>SERVICES</u>		
COMBINED SERVICES PLAN (REBORT BIRD GROUP)	PD-C-1802	PD-C-1802

DABLING HARBOR LIVE

**NOTES.** THIS DRAWING IS NOT TO SCALE FROM DRAWINGS USE WHOLE DIMENSIONS ONLY.  
ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.  
ALL COORDINATES TO AND FROM LEVELS TO AND  
LEVELS TO AND DIMENSIONS CORRESPONDING WITH WORK, HENCE SHALL BE NOTIFIED IN  
ANY DISCREPANCIES.  
THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RE-  
LATING CONTRACTS AND DRAWINGS.  
THIS DRAWING CERTAINS COLOUR AND MUST ONLY BE PRINTED ON

REFERENCE MAP

 <p><b>DRAWING LIST</b></p>	
<p style="font-size: small;">DRAWING TITLE</p>	
<p style="font-size: x-large;"><b>DRAWING LIST</b></p>	
<p style="font-size: small;">DA APPROVAL</p>	
<p>CIVIL / TRAFFIC / FACADES</p> <p>HYDER CONSULTING PTY LTD</p> <p>LEVEL 1, 100 MARIBOR AVENUE</p> <p>LAKE MCKEEHAN, NORTH WEST ST</p> <p>NORTH TYDOWNS 2630</p> <p>AUSTRALIA</p> <p>Tel: +61 8 8277 8000</p> <p>Fax: +61 8 8277 8001</p> <p>E-mail: <a href="mailto:hyderconsulting.com">hyderconsulting.com</a></p> <p>© Copyright Reserved</p>	<p>SYNTHESI</p>
<p>PROJECT NUMBER:</p> <p>AA004399</p>	<p>SCALE @ A1</p> <p>N.T.W.</p> <p>DA DRAWING</p> <p>BRANCH NUMBER:</p> <p>PD-Cl'</p>
<p>PROJECT:</p> <p>SIECEP - DARLING HARBOUR LIVE DARLING SQUARE WESTERN PLOT BUILDING W1</p>	<p>HEAVY WEIGHT</p> <p>JW</p> <p>MAK</p> <p>-</p>
<p>LOCATION:</p> <p>VEL 6, 101 MARIBOR BLDG</p> <p>BURRWOOD, NSW 2100</p>	<p>REV.</p> <p>04</p>

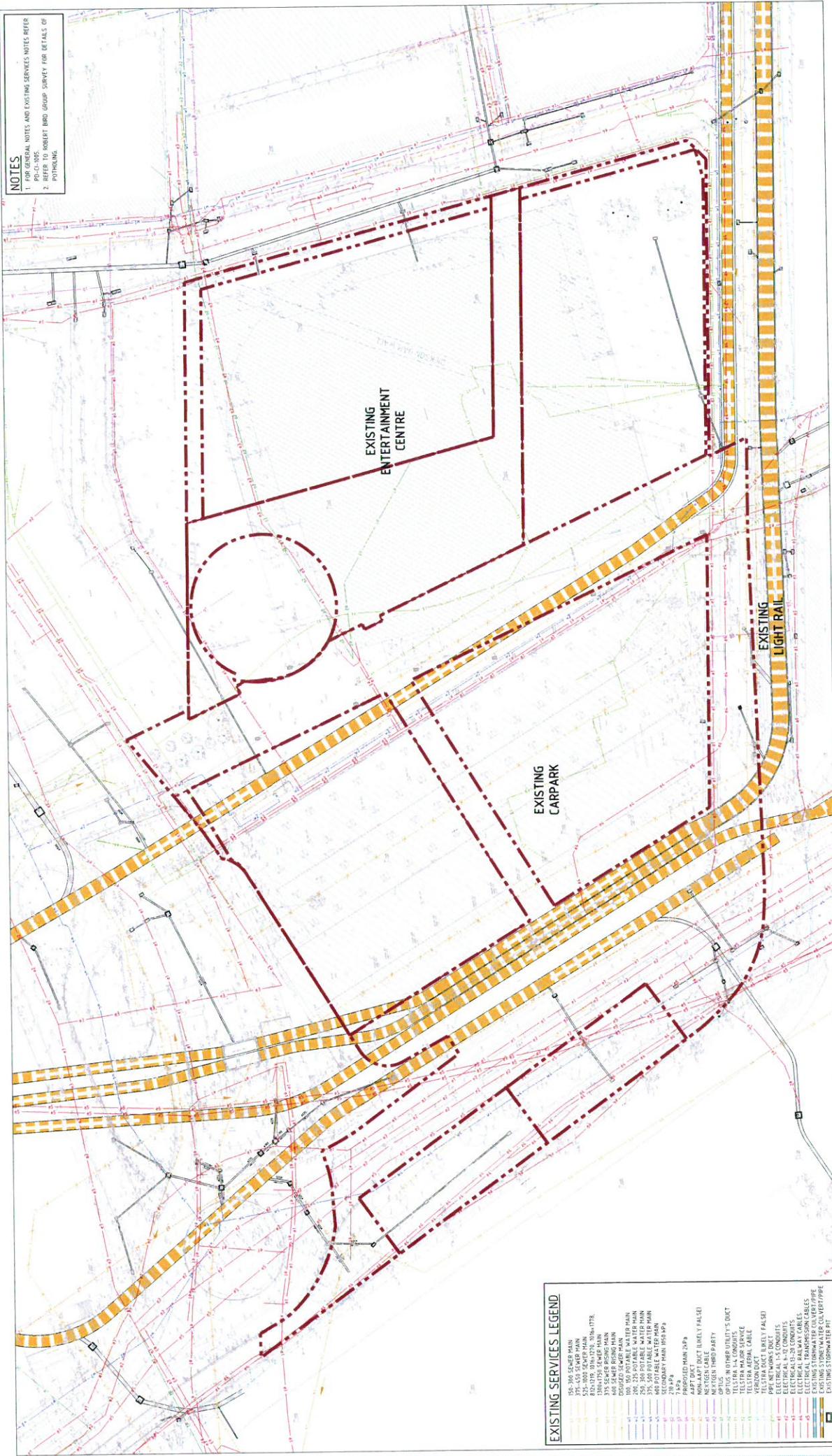


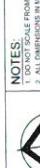




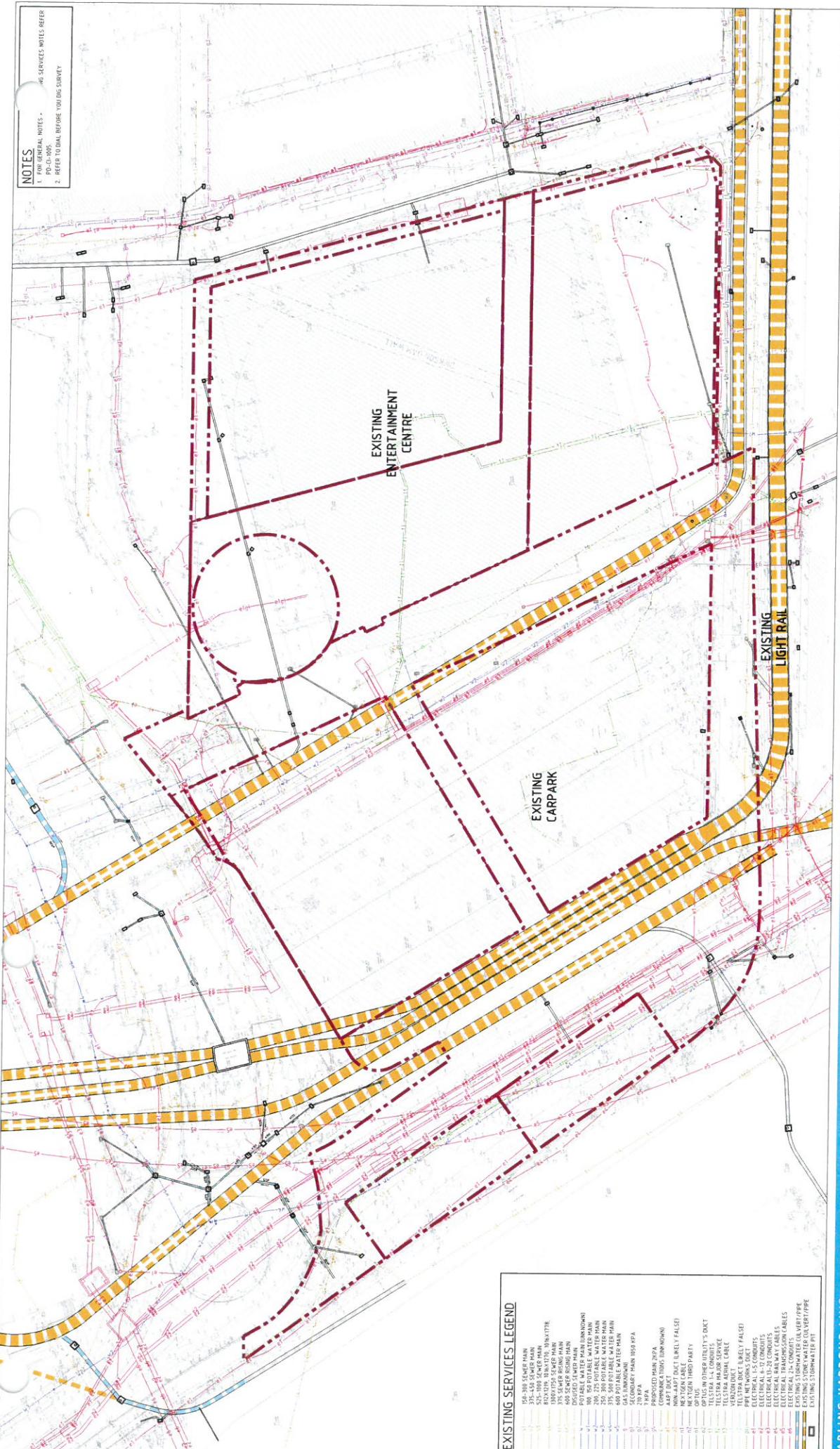
NOTES

1. FOR GENERAL NOTES AND EXISTING SERVICES NOTES REFER PG-1005.  
2. REFER TO ROBERT BIRD GROUP SURVEY FOR DETAILS OF POTHoling.



DARLING HARBOUR LIVE		SURVEY AND EXISTING SERVICES PLAN (DBYD)	
		DRAWING TITLE	
 <b>Hyder</b> <b>ASPECT Studios™</b>		DA APPROVAL	
<small>CIVL, TRAFFIC, FAUCES &amp; URBANST STUDENT ACCOMMODATION SUITE 102, LEVEL 1, AUSTRALIA SQUARE, SYDNEY NSW 2000</small>		DRAWN BY AT : <b>1 : 500</b> DESIGNED BY : <b>JW</b> CHECKED BY : <b>MAK</b> APPROVED BY : <b>-</b> <small>PROJECT NUMBER : AA00498 DRAWING NUMBER : PD-CL-04</small>	
<small>CLIENT : urbaneast CONTRACTS : ASPECT STUDIOS™ ADDRESS : STUDIO 61, 61 MARLBOROUGH ST, SOUTH HILLS, NSW 2196 PHONE : +61 2 8565 0000 EMAIL : info@urbaneast.com WEBSITE : www.urbaneast.com © URBANEAST 2010</small>		<small>SCALE : 1 : 500 DRAWN BY : JW DESIGNED BY : MAK CHECKED BY : - APPROVED BY : -</small>	
<small>NOTES:</small> <p>1. DO NOT SCALE FROM DRAWINGS USE UNITS DIMENSIONS ONLY.      2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.      3. ALL DIMENSIONS ARE IN MILLIMETRES.      4. ALL DIMENSIONS, COORDINATES AND LEVELS TO BE SERFED ON SITE      BEFORE PROCEEDING WITH WORK. HYDER SHALL NOTIFIED IN WRITING      IF ANY PROBLEMS ARE ENCOUNTERED.      5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT      CONTRACTS, SPECIFICATIONS AND DRAWINGS.      6. THIS DRAWING CONTAINS COLOUR AND MUST ONE WITH PRINTED OR COPIED      IN COLOUR.</p>		<small>PROJECT : SICEEP - DARLING HARBOUR LIVE DARLING SQUARE WESTERN PLOT BUILDING W1</small>	
<small>REFERENCE MAP</small>			
<small>1 : 500</small>			

NOTES      1. FOR GENERAL NOTES \*  
                  PO-0105.  
                  2. REFER TO DIAL BEFORE YOU DIG SURVEY  
                  NS SERVICES NOTES REFER



DARLING HARBOUR LIVE

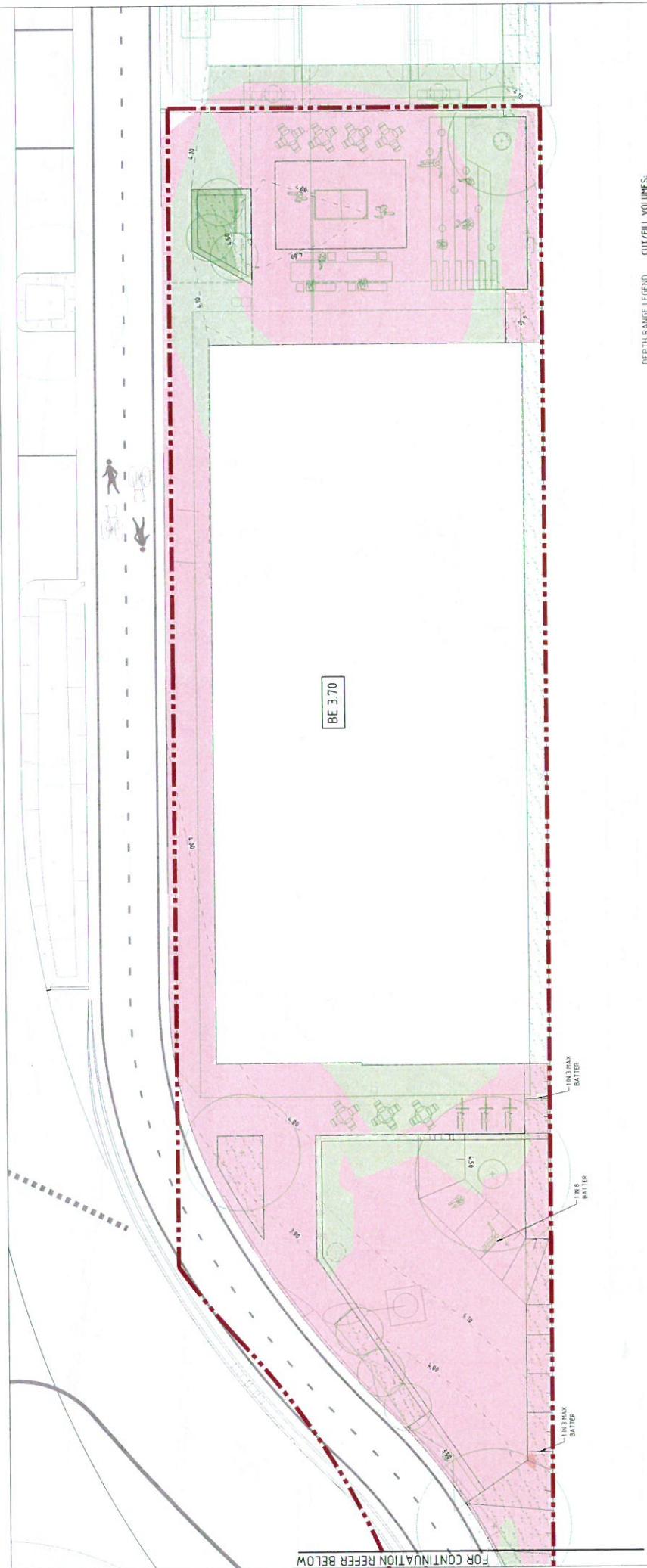
DESCRIPTION	REV	DATE
ISSUE FOR DEVELOPMENT APPROVAL	04	11/09/15
ISSUE FOR DEVELOPMENT APPROVAL	03	04/09/15
ISSUE FOR DEVELOPMENT APPROVAL	02	01/09/15
DRAFT ISSUE	01	18/08/15

NOTES:

1. DO NOT SCALE FROM DRAWINGS. USE WRITTEN DIMENSIONS ONLY.
2. ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.
3. ALL COORDINATES ARE TO THE NEAREST .0000.
4. ALL COORDINATES ARE FOR LEVEL 5. TO BE REFERRED ON SITE, REFER TO THE COORDINATES WITH WHOM HODGE WAS NOTIFIED OR WRITING.
5. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL NECESSARY CONTRACTS, OPERATIONS AND DRAWINGS.
6. CONTRACTS, OPERATIONS AND DRAWINGS ARE MAILED IN COLOR QUAD COPIES. COLOR COPIES ARE MASTERS ONLY. BE REFERRED OR COPIED.

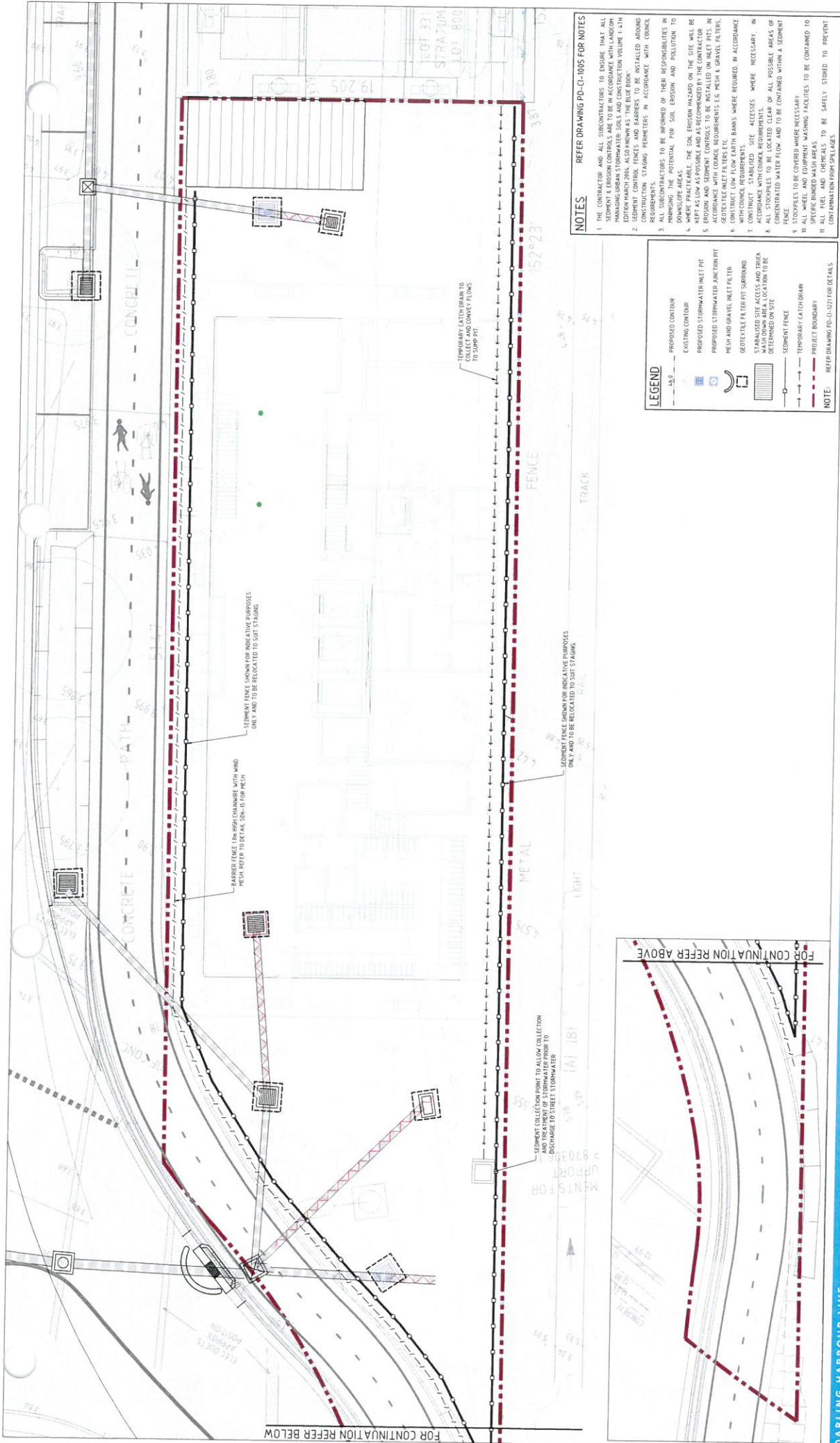
Scale: 1:500

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500



SANDEE INTERNATIONAL CONFERENCE, EXHIBITION AND ENTERTAINMENT PRECINCT

A topographic map featuring a grid of contour lines. A prominent red dashed line forms a polygon, likely indicating a survey or property boundary. The map includes a north arrow pointing upwards, a scale bar at the bottom left, and a label 'FOR CONTINUATION REFER ABOVE' at the top center. The terrain shows varying elevations, with darker green areas generally representing higher ground.



CLIENT	URBANEST STUDENT ACCOMMODATION BUZA BUILDING, 86 BULVA LA SOLAÑE, SYDNEY NSW 2000 <a href="http://urbaneast.com.au">urbaneast.com.au</a>	
CONSULTANTS	ASPECT Studios <sup>®</sup>	
	APFICO STUDIOS STUDIO 6, 61 MARLBOROUGH ST SUNNY HILLS, NSW 2010	
	A + C	ARCHITECT 79 WHITTLE STREET CHIPPENDALE NSW 2000
		Architects + Planners
		DATE
	06	15/05/15
	04	06/06/15
	03	06/06/15
	02	01/06/15
	01	19/06/15
	DRAFT ISSUE	
		DESCRIPTION
		REV

