

General Notes
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SITE NOTES:
REFER A04 SITEWORKS DRAWING PACKAGE FOR
LANDSCAPE DETAILS.
REFER CIVIL + SERVICE ENGINEER'S DOCUMENTATION
FOR EXTERNAL SITE WORKS.
REFER SITE SURVEY FOR EXISTING SITE CONDITION.



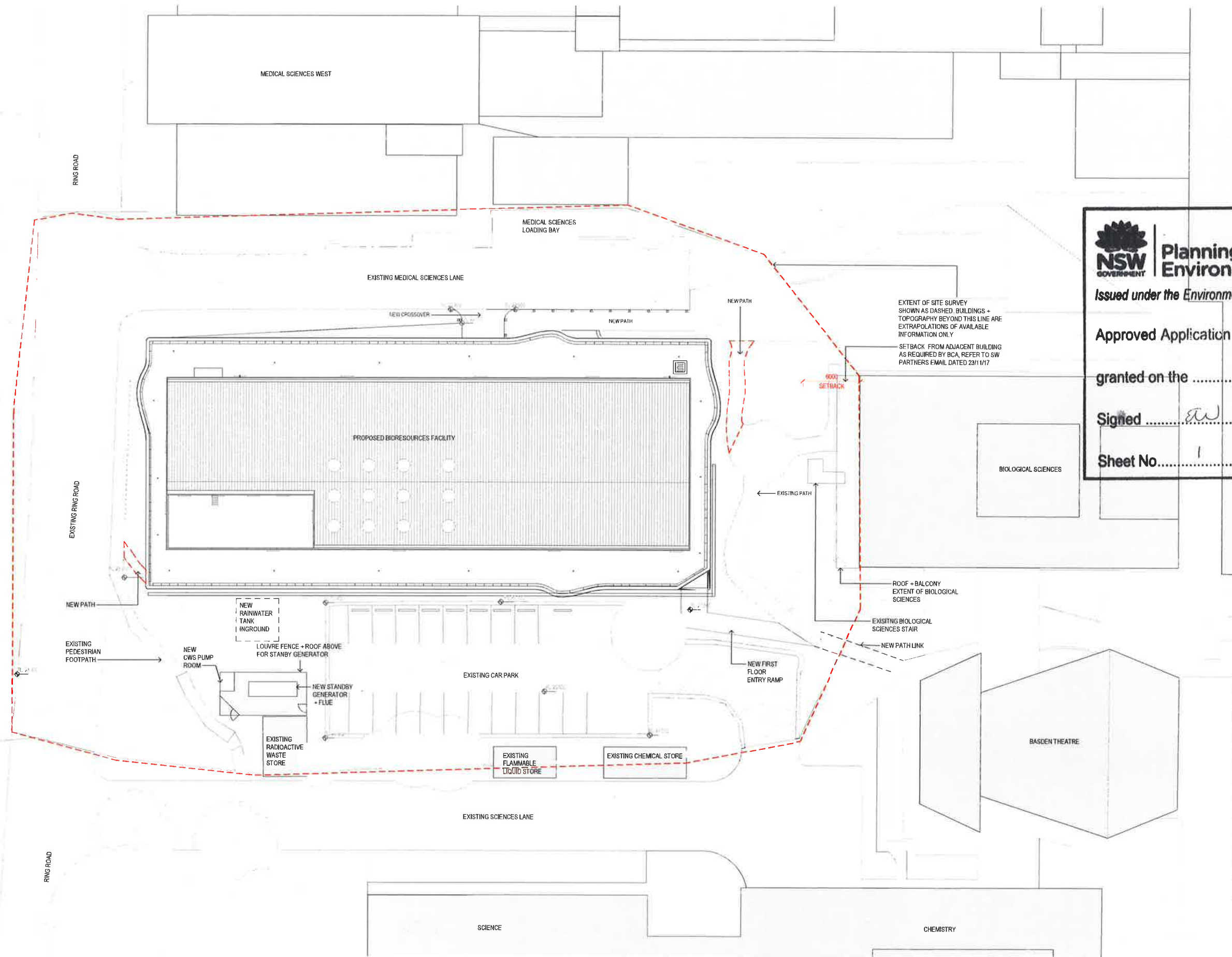
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Approved Application No. SSD 8937

granted on the 20 FEB 2019

Signed EW

Sheet No. 1 of 27



Scale / North Point
1:200 @ A1
1:400 @ A3

Drawing Status
DESIGN DEVELOPMENT
FOR INFORMATION

Drawing Title
SITE PLAN

Drawn By TA	Checked By PA	Revision D3
Project Number D0136	Drawing Number A01_0100	Issue Date 07/09/2018
Project File D0136 UoN BioResources_R18		

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Project Title
**D0136 - UON BIORESOURCES
UNIVERSITY OF NEWCASTLE**

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No.	Date	App.	Revision or Release for Issue
F0	26/02/2018	PA	Concept Design For Approval
S0	03/05/2018	PA	Schematic Design For Approval
S1	08/06/2018	PA	Schematic Design For Approval
D1	25/07/2018	PA	50% DD Milestone For Coordination + Review
D2	11/08/2018	PA	80% DD Milestone For Coordination + Review
D3	07/09/2018	PA	90% DD Milestone For Coordination + Review



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DEMOLITION NOTES:

DEMOLITION PLANS TO BE READ IN CONJUNCTION WITH SERVICES AND CIVIL DOCUMENTATION

ALL WORKS AFFECTING OR IN CLOSE PROXIMITY TO TREES AND VEGETATION TO BE UNDERTAKEN IN ACCORDANCE TO ARBORIST REPORT.

ALL DAMAGE TO SURROUNDING INFRASTRUCTURE RESULTING FROM CONTRACTED WORKS TO BE MADE GOOD UPON COMPLETION OF MAIN WORKS.

CONTRACTOR TO CONFIRM ANY AMBIGUITY WITH ARBORIST PRIOR TO PROCEEDING.

LOCATION AND EXTENT OF SRZ AND TPZ TO BE IDENTIFIED AND PROTECTED IN ACCORDANCE WITH ARBORIST REPORT.

TREES NUMBERED 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 22, 25, 32, 33 ARE TO BE REMOVED.

EXACT LOCATION OF ALL TREES WAS NOT IDENTIFIED AT TIME OF SURVEY. TREE LOCATION AND IDENTIFICATION TO BE SURVEYED AND CROSS REFERENCED WITH ARBORIST REPORT PRIOR TO COMMENCING WORKS.

LEGEND

- NOMINAL EXTENT OF MAIN WORKS
- TO BE DEMOLISHED
- MAIN EXTENT TO BE DEMOLISHED
- STRUCTURAL ROOT ZONE (SRZ)
- TREE PROTECTION ZONE (TPZ)
- TREES TO BE RETAINED
- TREES TO BE REMOVED
- TREE IDENTIFICATION NUMBER IN ACCORDANCE WITH ARBORIST REPORT

Scale / North Point
1:200 @ A1
1:400 @ A3

Drawing Status:
ISSUED FOR TENDER
FOR INFORMATION

DEMOLITION PLAN

Drawn By: TA
Checked By: PA
Project Number: D0136
Drawing Number: A03_0000
Revision: T2
Issue Date: 04/02/2019

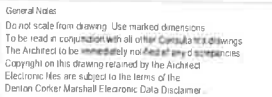
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No. Date App. Revision or reason for issue:
T1 25/10/2018 PA Issued for Tender
T2 04/02/2019 PA Requested Planning Amendments



FUTURE PROVISION EQUIPMENT

Drawn By TA	Checked By PA	
Project Number D0136	Drawing Number A10_0000	Revision T1
Project File D0136 UoN BioResources_R18		Issue Date 25/10/2018

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GA NOTES:

REFER A04 SITEWORKS DRAWING PACKAGE FOR LANDSCAPE DETAILS.

REFER CIVIL AND SERVICES ENGINEERS DOCUMENTATION FOR SITE AND PLANT DRAINAGE REQUIREMENTS AND DETAIL.

REFER TO A35, A36, A37 DRAWING PACKAGES FOR AMENITY/NET AREAS, CIRCULATION/LIFT LOBBY AND TYPICAL SPECIALIST ROOM PLANS AND ELEVATIONS FOR FURTHER INTERIOR DETAILS.

EQUIPMENT NOT INCLUDED FOR PROJECT START-UP SHOWN DASHED REFER FF-E SCHEDULE FOR START UP PROVISIONS.

PC2 BARRIER
SPF BARRIER

LEGEND

START UP EQUIPMENT

FUTURE PROVISION EQUIPMENT



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Approved Application No. SSD 8937

20 FEB 2019

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Sheet No. 4 of 27

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Scale / North Point
1:100 @ A1
1:200 @ A3

Drawing Status
ISSUED FOR TENDER
FOR INFORMATION

Drawing Title
LEVEL 01 - OVERALL PLAN

Drawn By	Checked By	Project Number	Drawing Number	Revision
TA	PA	D0136	A10_0100	T2
Project File				Issue Date
D0136 UoN BioResources_R18				30/10/2018

No.	Date	App.	Revision or reason for issue
T1	25/10/2018	PA	Issued for Tender
T2	30/10/2018	PA	Issued for Tender

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EQUIPMENT NOT INCLUDED FOR PROJECT START-UP SHOWN DASHED REFER FF-E SCHEDULE FOR START UP PROVISIONS.

----- PC2 BARRIER
----- SPF BARRIER

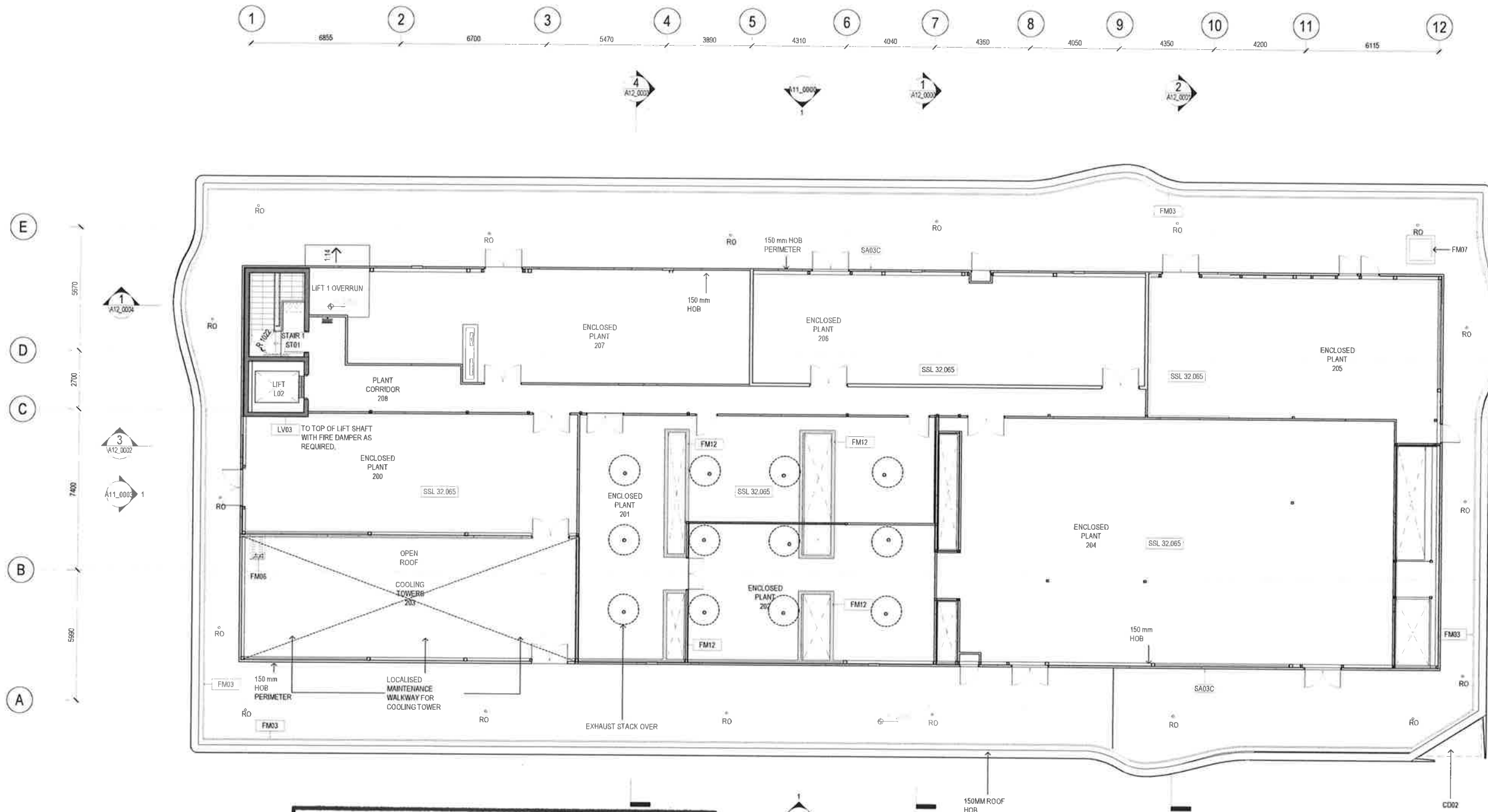
RO = RAINWATER OUTLET
ALLOW FOR SINGLE O/F PENETRATION FOR EACH RO SHOWN

ROOF SLAB TO FALL TO SUIT RAINWATER OUTLET LOCATIONS

150 HOB TO BE PROVIDED TO:

PERIMETER OF ROOF SLAB
PERIMETER OF ROOF PLANT ENCLOSURE
PERIMETER OF COOLING TOWER ENCLOSURE
ALL LEVEL 02 PENETRATIONS

NOMINAL PLANT + EQUIPMENT SHOWN DASHED



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Sheet No. 5 of 27

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Scale / North Point
1:100 @ A1
1:200 @ A3

Drawing Status
**ISSUED FOR TENDER
FOR INFORMATION**

Drawing Title
LEVEL 02 - OVERALL PLAN

Drawn By	Checked By	Revision
TA	PA	
Project Number D0136	Drawing Number A10_0200	Revision T2
Project Title D0136 Uon BioResources_R18	Issue Date 28/10/2018	

No.	Date	Appr.	Revision or reason for issue
T1	25/10/2018	PA	Issued for Tender
T2	28/10/2018	PA	Issued for Tender

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GA NOTES:

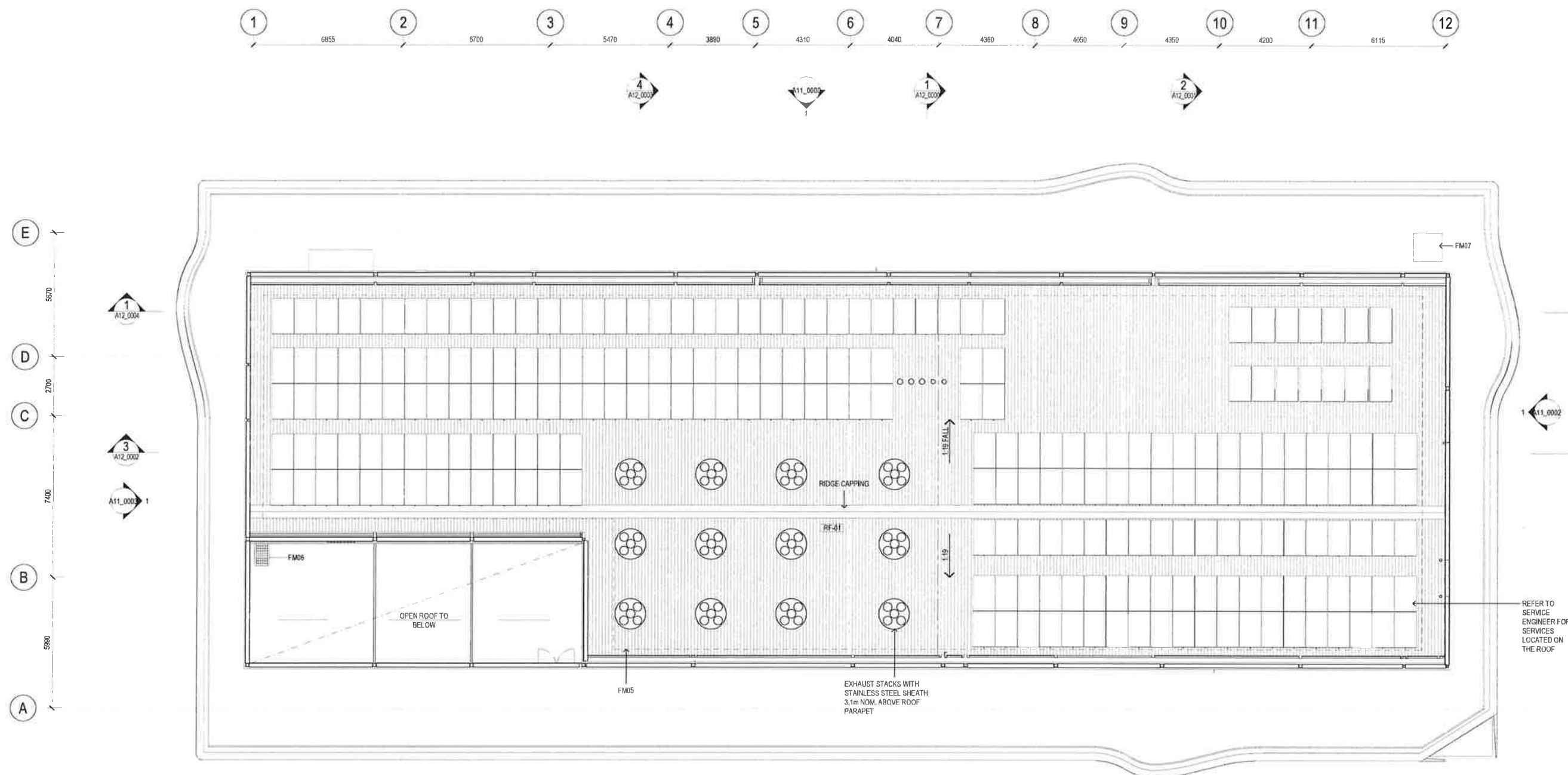
REFER A04 SITEWORKS DRAWING PACKAGE FOR LANDSCAPE DETAILS.

REFER CIVIL AND SERVICES ENGINEERS DOCUMENTATION FOR SITE AND PLANT DRAINAGE REQUIREMENTS AND DETAIL.

REFER TO A35, A36, A37 DRAWING PACKAGES FOR AMENITY/WET AREAS, CIRCULATION/LIFT LOBBY AND TYPICAL SPECIALIST ROOM PLANS AND ELEVATIONS FOR FURTHER INTERIOR DETAILS.

EQUIPMENT NOT INCLUDED FOR PROJECT START-UP SHOWN DASHED REFER FF-4E SCHEDULE FOR START UP PROVISIONS.

----- PC2 BARRIER
----- SPF BARRIER



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Project Title
**D0136 - UON BIORESOURCES
UNIVERSITY OF NEWCASTLE**

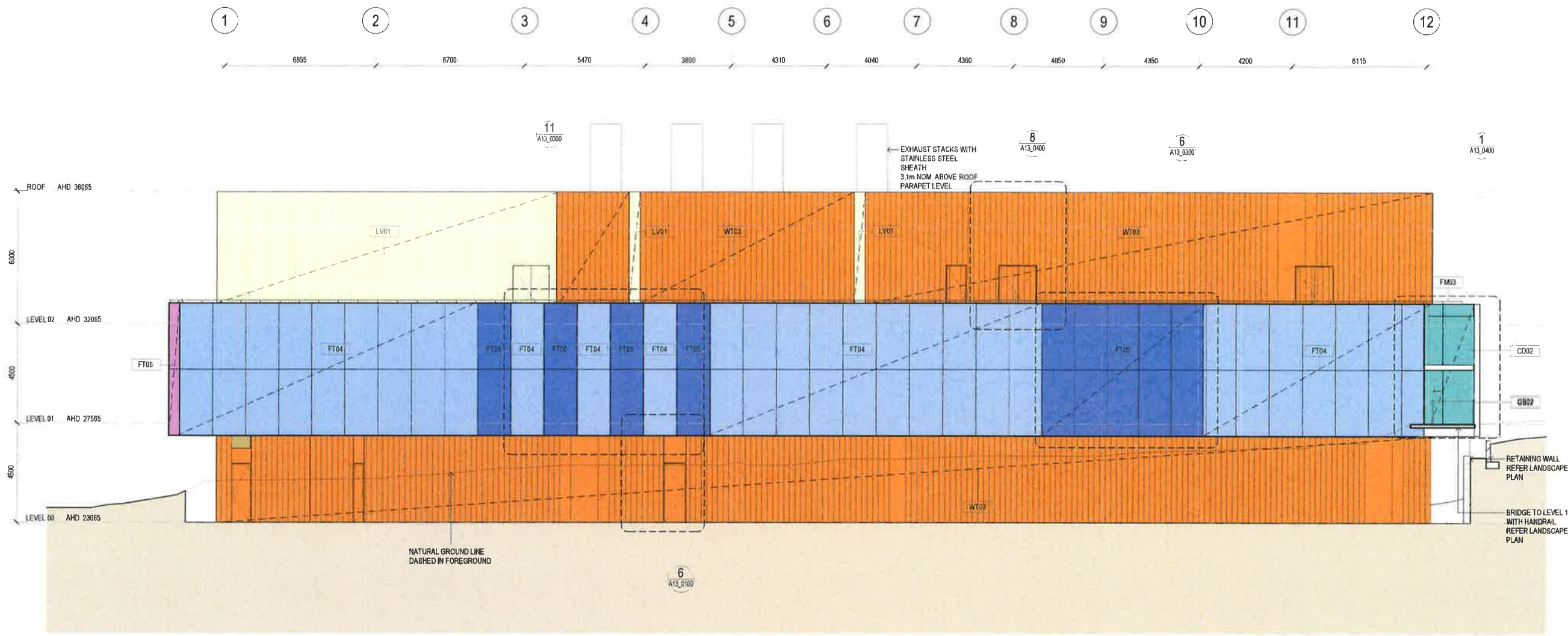
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Scale (North Point)
1:100 @ A1
1:200 @ A3

Drawing Status
**ISSUED FOR TENDER
FOR INFORMATION**

Drawing Title
ROOF LEVEL - OVERALL PLAN

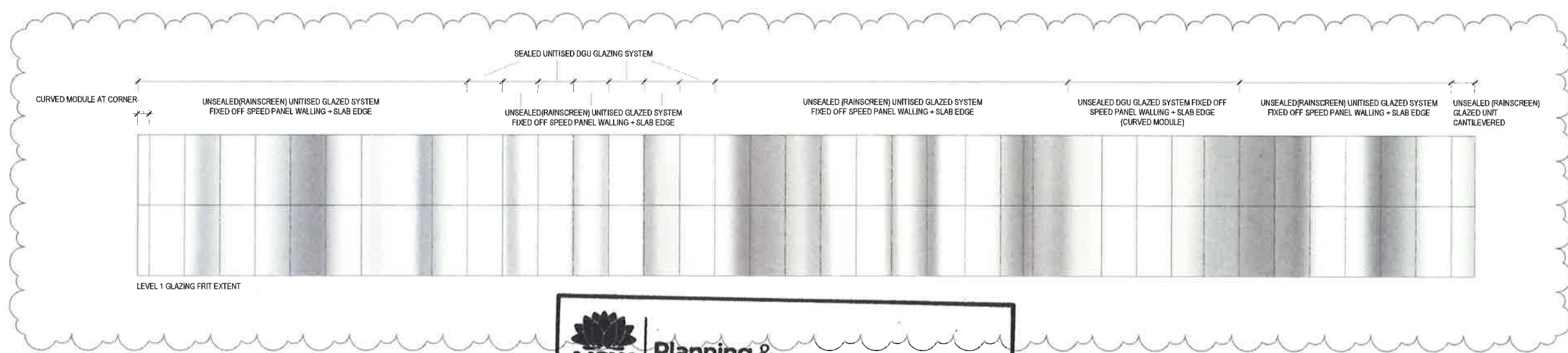
Drawn By TA	Checked By PA	Reason T2
Project Number D0136	Drawing Number A10_0300	Issue Date 26/10/2018
Project File D0136 Uon BioResources_R18		



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FT02	FT04
FT05	FT06
WT03	LV01
LV02	LV03

GA ELEVATION NOTES:
REFER TO A13 DRAWING PACKAGE FOR FACADE DETAILS.
WHERE LV01 INDICATED, ALLOW FOR LV02 TO ALL ACTIVE ROOF PLANT LOUVRES AND TO BE INSTALLED BEHIND LV01 UNO.





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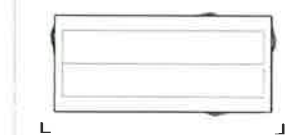
Sheet No.8 of 27

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Scale / North Point
1:100 @ A1
1:200 @ A3

Drawing Status
DESIGN DEVELOPMENT
FOR INFORMATION

Drawing Title GA ELEVATIONS - SOUTH		
Drawn By YC	Checked By PA	Revision T1
Project Number D0136	Drawing Number A11_0001	Issue Date 25/10/2018
Project File D0136 UoN BioResources_R18		

No.	Date	App.	Revision or reason for issue
T1	23/10/2018	PA	Issued for Tender

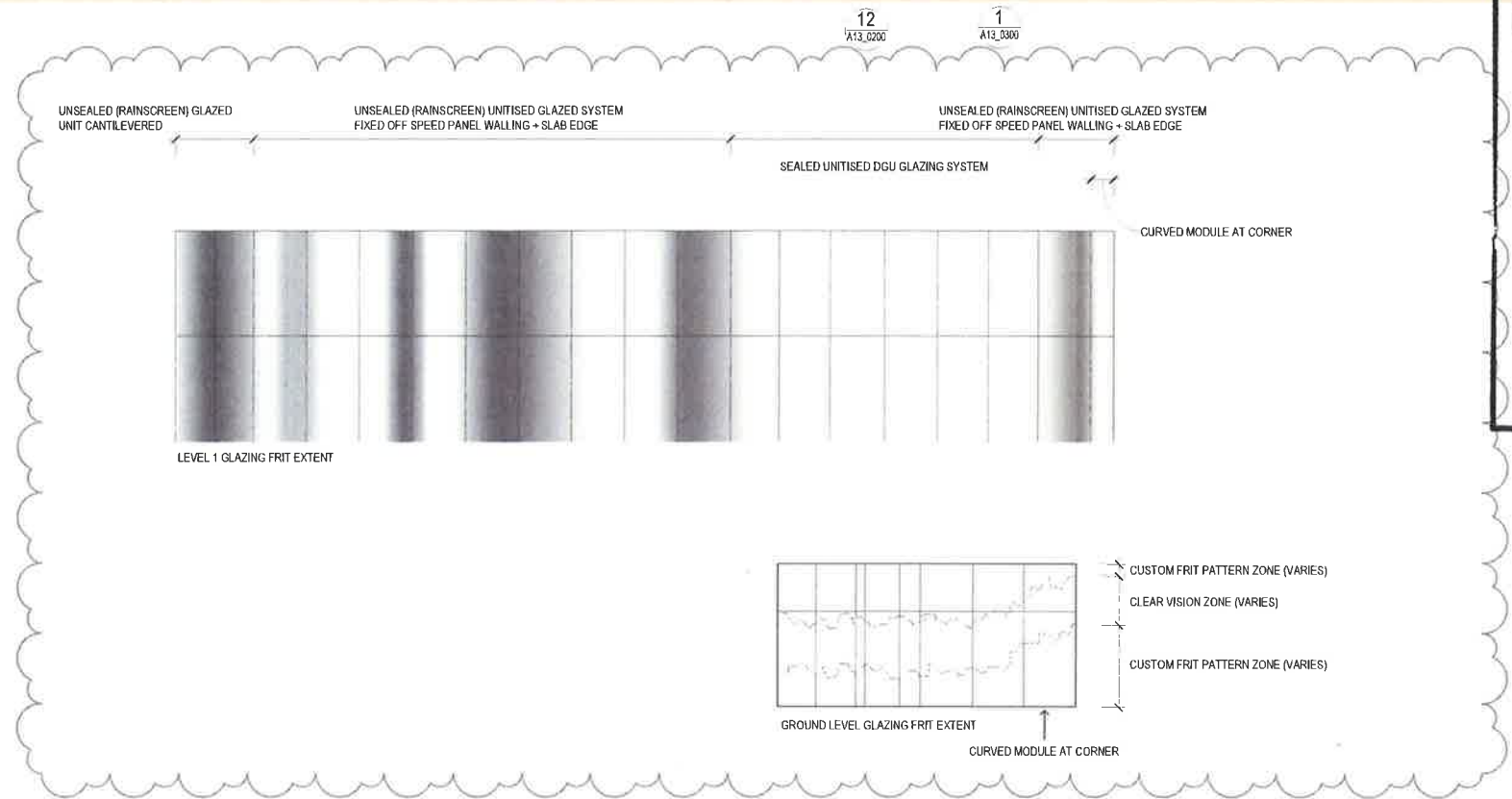
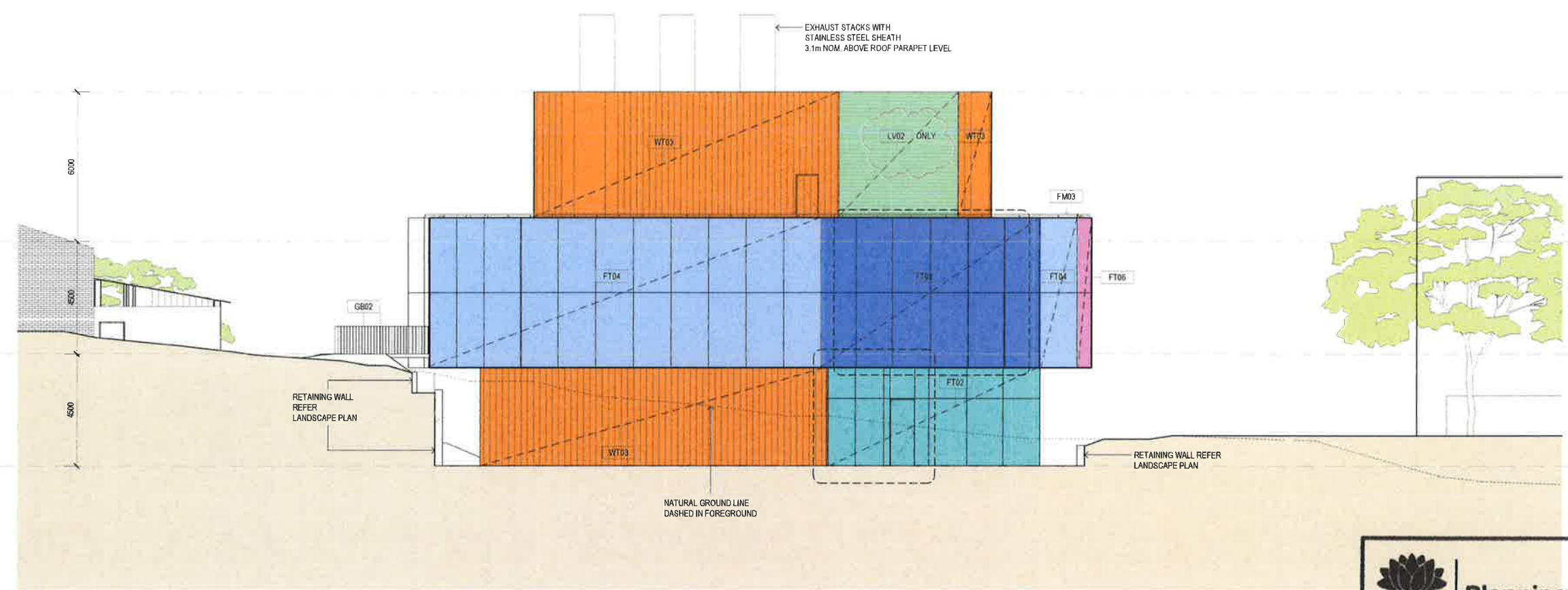


ROOF AHD 38065

LEVEL 02 AHD 32065

LEVEL 01 AHD 27565

LEVEL 00 AHD 23065



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FT02	FT04
FT05	FT06
WT02	LV01
LV02	LV03

GA ELEVATION NOTES:
REFER TO A13 DRAWING PACKAGE FOR FACADE DETAILS.
WHERE LV01 INDICATED, ALLOW FOR LV02 TO ALL ACTIVE ROOF PLANT LOUVRES AND TO BE INSTALLED BEHIND LV01 UNO.

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Approved Application No. SSD 8937

granted on the 20 FEB 2019

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Sheet No. 9 of 27



Drawing Status
DESIGN DEVELOPMENT
FOR INFORMATION

No. Date App. Reason for issue
T1 25/10/2018 PA Issued for Tender

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Drawing Title
GA ELEVATIONS - EAST

Drawn By YC	Checked By PA	Project Number D0136	Drawing Number A11_0002	Person T1
Project File D0136 UoN BioResources_R18				Issue Date 25/10/2018

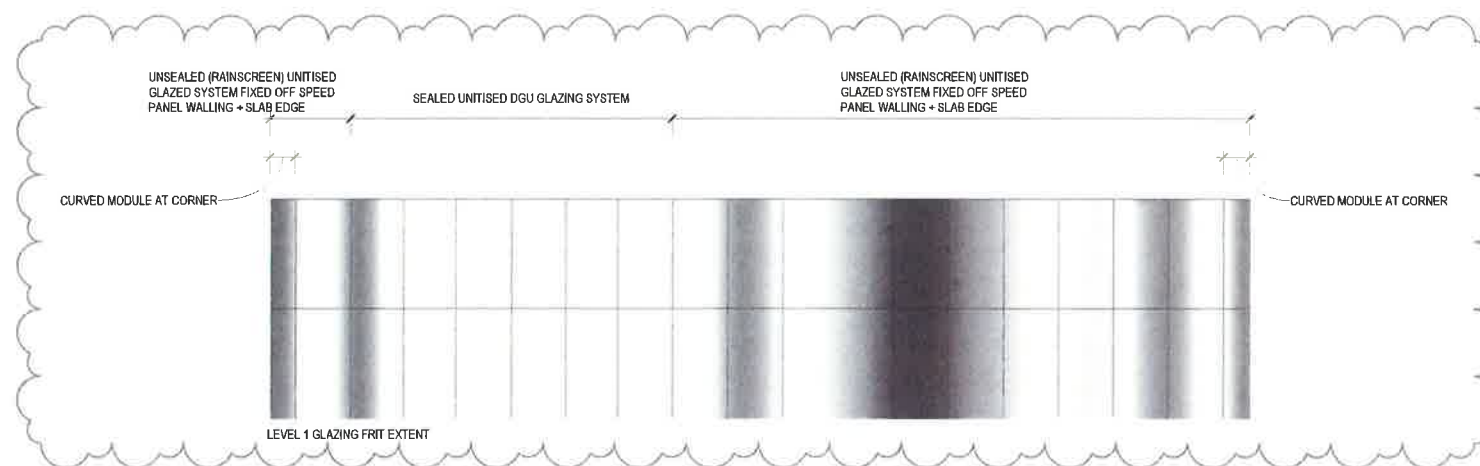
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FT02	FT04
FT05	FT06
WT03	LV01
LV02	LV03

GA ELEVATION NOTES:

REFER TO A13 DRAWING PACKAGE FOR FACADE DETAILS.

WHERE LV01 INDICATED, ALLOW FOR LV02 TO ALL ACTIVE ROOF PLANT LOUVRES AND TO BE INSTALLED BEHIND LV01 UNO.



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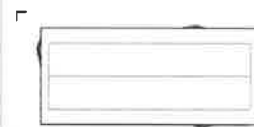
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granted on the 20 FEB 2019

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Sheet No. 10 of 27



Scale (North Point)
1:100 @ A1
1:200 @ A3

Drawing Status
DESIGN DEVELOPMENT

FOR INFORMATION

Drawing Title
GA ELEVATIONS - WEST

Drawn By YC
Checked By PA

Project Number D0136
Drawing Number A11_0003
Revision T1

Project File D0136 UoN BioResources_R18
Issue Date 25/10/2018

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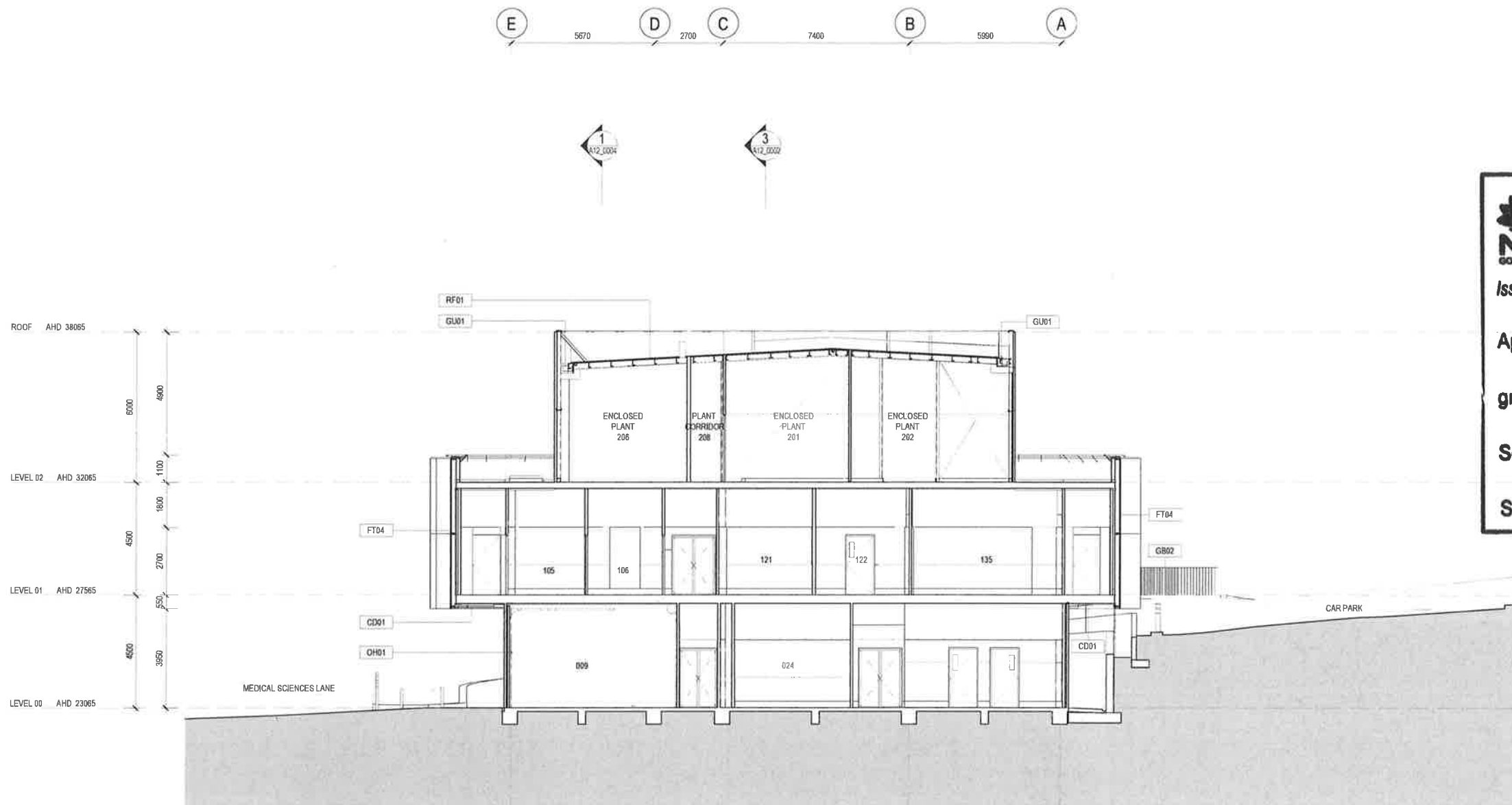
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No. 11
Date 25/10/2018
App. PA
Revision or reason for issue
Issued for Tender

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1 SECTION 01
A10_0000 SCALE 1:100



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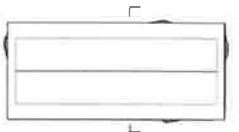
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Approved Application No. SSD 8937

granted on the 20 FEB 2019

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Sheet No. 11 of 27



Scale / North Point
1:100 @ A1
1:200 @ A3

Drawing Status
ISSUED FOR TENDER
FOR INFORMATION

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Project Title
**D0136 - UON BIORESOURCES
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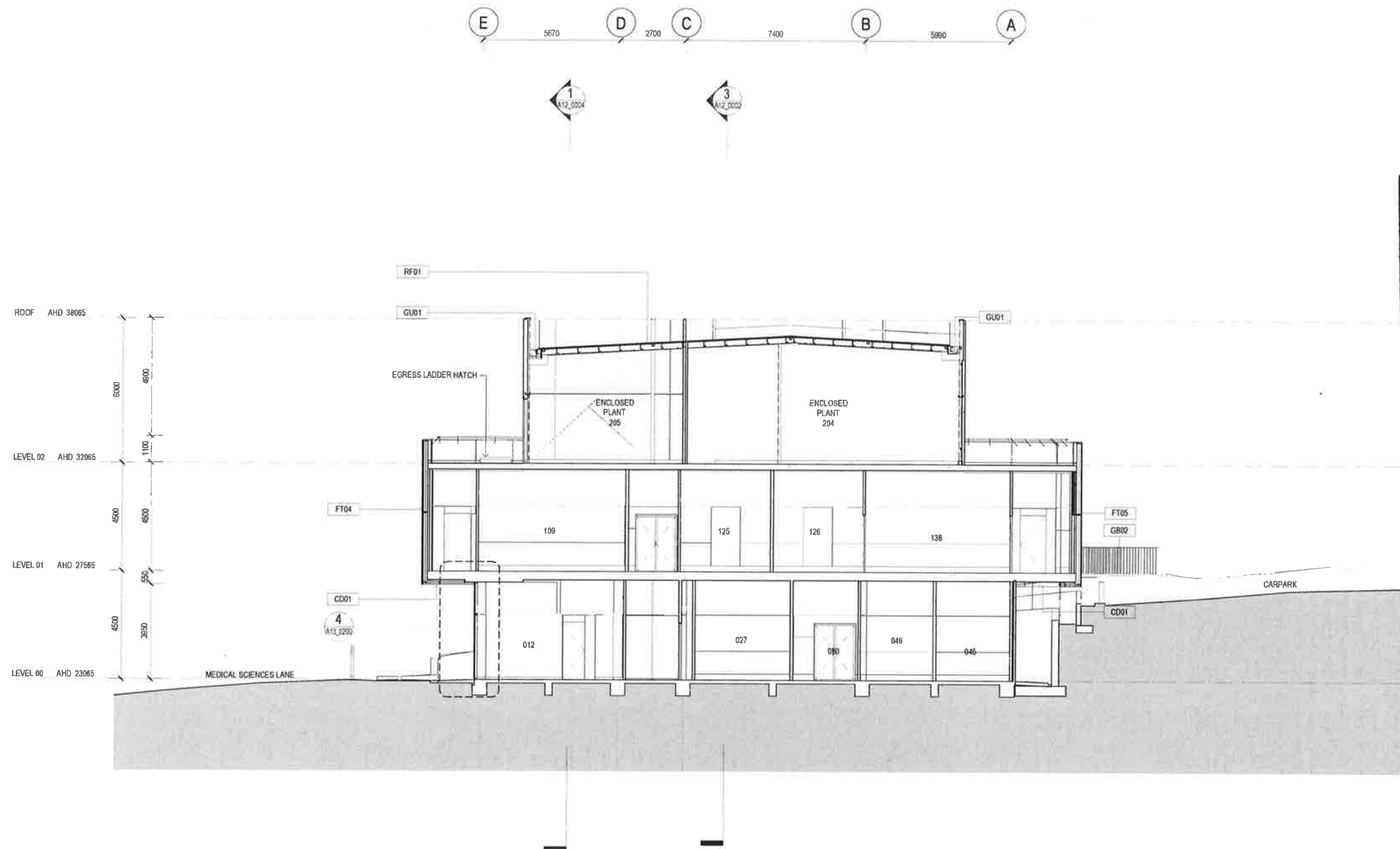
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Drawing Title
GA SECTIONS - SHEET 00

Drawn By TA	Checked By PA	Revision T1
Project Number D0136	Drawing Number A12_0000	Issue Date 25/10/2018
Project File D0136 UoN BioResources_R18		

No.	Date	App.	Revision or reason for issue
11	25/10/2018	PA	Issued for tender

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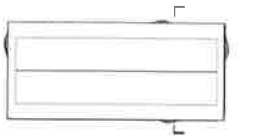
NSW GOVERNMENT | **Planning & Environment**
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Sheet No. 12 of 27



Scale / North Point
1:100 @ A1
1:200 @ A3

Drawing Title
ISSUED FOR TENDER
FOR INFORMATION

Drawing Title
GA SECTIONS - SHEET 01

Drawn By	Checked By	Revision
TA	PA	T1

Project Number
D0136

Drawing Number
A12_0001

Project File
D0136 UoN BioResources_R18

Issue Date
25/10/2018

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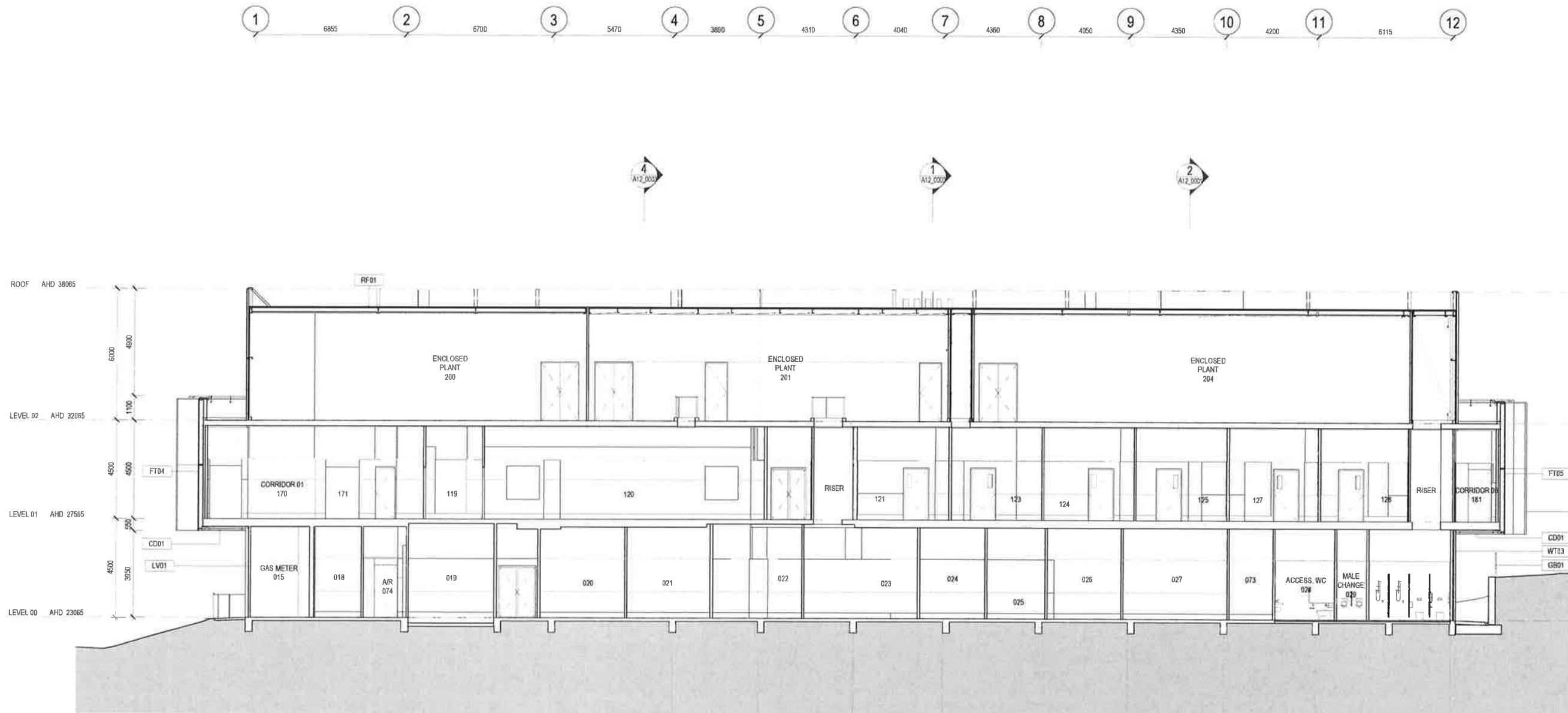
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Project Title
**D0136 - UON BIORESOURCES
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No	Date	App	Revision or reason for issue
T1	25/10/2018	PA	Issued for Tender

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3 SECTION 03
A10_0000 SCALE 1:100

NSW GOVERNMENT **Planning & Environment**
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Sheet No. 13 of 27

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Scale / North Point
1:100 @ A1
1:200 @ A3

Drawing Status
**ISSUED FOR TENDER
FOR INFORMATION**

Drawing Title
GA SECTIONS - SHEET 02

Drawn By	Checked By	Reason
TA	PA	T1
Project Number	Drawing Number	Issue Date
D0136	A12_0002	
Project File		
D0136 UoN BioResources_R18		25/10/2018

This architectural section drawing illustrates a building's internal structure and spatial organization. The drawing is oriented with a horizontal axis at the top, marked with grid lines E, D, C, B, and A, and vertical dimensions of 5670, 2700, 7400, and 5980. The vertical axis on the left indicates levels and heights: ROOF (AHD 38065), LEVEL 02 (AHD 32065), LEVEL 01 (AHD 27565), and LEVEL 00 (AHD 23065). The building is divided into several rooms and areas, including:

- Roof:** Features a sloped roof structure with a height of 6000 from Level 02 to the roofline and 5000 from Level 01 to the roofline. It includes a roof structure (RF01) and a ground floor (GU01).
- Level 02:** Contains three enclosed plant rooms (207, 208, 201) and a plant corridor (208). It also features a ground floor (GU01) and a roof structure (RF01).
- Level 01:** Includes a ground floor (GU01) and a roof structure (RF01). The rooms shown are 104, 120, 120, and a store (133). It also features a ground floor (GU01) and a roof structure (RF01).
- Level 00:** The ground floor, featuring a ground floor (GU01) and a roof structure (RF01). The rooms shown are 006, 021, 036, and 037. It also features a ground floor (GU01) and a roof structure (RF01).

The drawing also shows a carpark area to the right of the building. The overall structure is a multi-story building with a sloped roof and a ground floor (GU01) and a roof structure (RF01).

A diagram of a rectangular box with a horizontal line through the center. The label 'a' is on the left side of the box, and the label 'b' is on the right side of the box.

No	Date	App	Revision or reason for issue
T1	25/10/2018	PA	Issued for Tender

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Project Title
D0138 • UON BIORESOURCES
UNIVERSITY OF NEWCASTLE

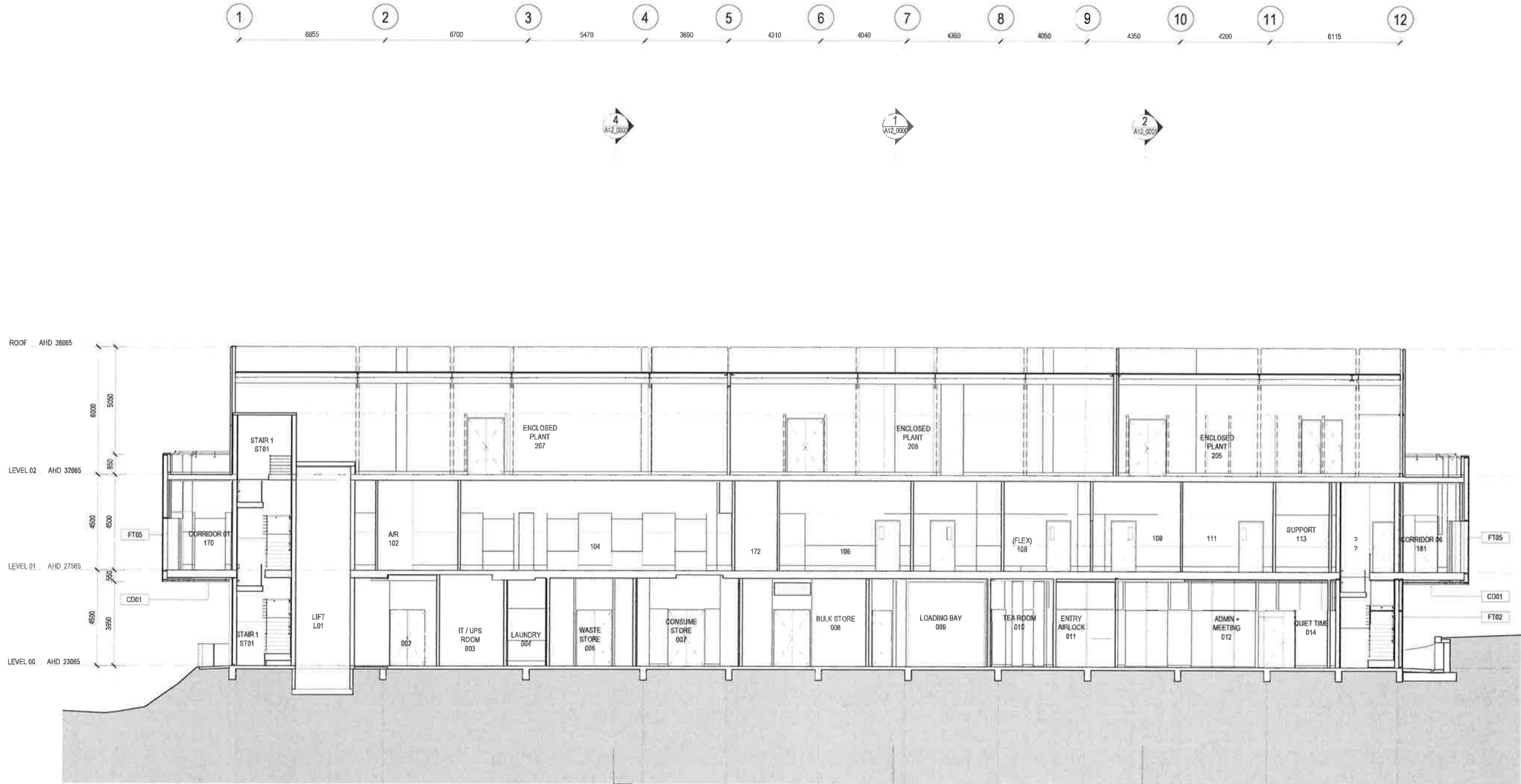
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Drawing Status
ISSUED FOR TENDER
FOR INFORMATION

Drawing Title
GA SECTIONS - SHEET 03

Drawn By Author	Checked By Checker	
Project Number D0136	Drawing Number A12_0003	Revision T1
Project File D0136 UoN BioResources_R18		Issue Date 25/10/2018

General Notes
Do not scale from drawing. Use marked dimensions.
To be read in conjunction with all other Consultant's drawings.
The Architect to be immediately notified of any discrepancies.
Copyright on this drawing retained by the Architect.
Electronic files are subject to the terms of the
Denton Corker Marshall Electronic Data Disclaimer



1 SECTION 05
A10_0000 SCALE 1:100



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Approved Application No. SSD 8937

20 FEB 2019

granted on the

Signed [Signature]

Sheet No. 15 of 27

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Project Title
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Scale / North Point
1:10 @ A1
1:10 @ A3
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
DNW

Drawing Status
ISSUED FOR TENDER
FOR INFORMATION

Drawing Title
GA SECTIONS - SHEET 04

Drawn By
Author

Checked By
Checker

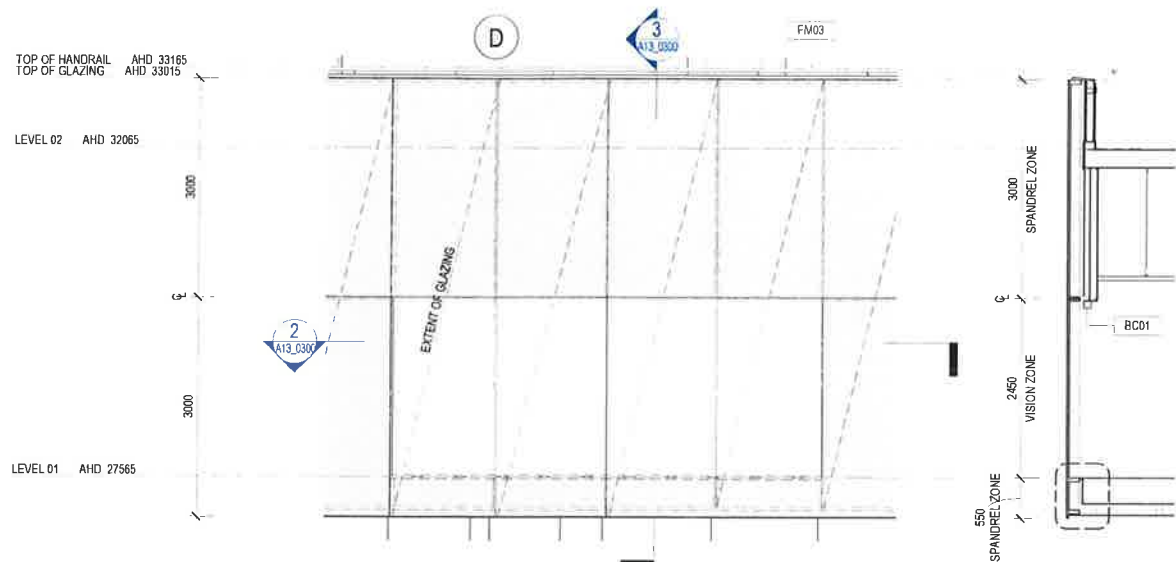
Project Number
D0136

Drawing Number
A12_0004

Project File
D0136 UoN BioResources_R18

Revision
T1

Issue Date
25/10/2018



1 LEVEL 01 FT05 DETAIL ELEVATION
SCALE 1:50

3 LEVEL 01 FT05 DETAIL SECTION
SCALE 1:50



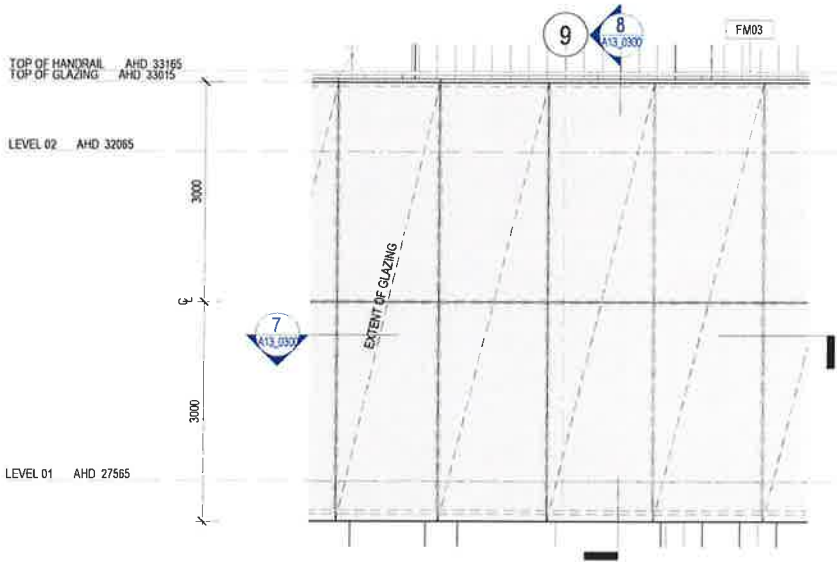
4 LEVEL 01 FT06 DETAIL ELEVATION
A11_0000 SCALE 1:50



FT02	FT04
FT03	FT05
FT06	LV01
LV02	LV03

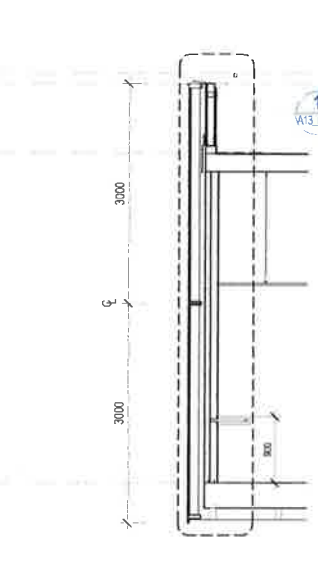
FACADE TYPE NOTES:
TO BE READ IN CONJUNCTION WITH ACS_0000 MATERIALS SCHEDULE.
REFER TO ESD CONSULTANT'S REPORT FOR INSULATION REQUIREMENT.
ALLOW FOR LV02A TO ALL ACTIVE ROOF PLANT LOUVRE INSTALLED BEHIND LV01. REFER ACOUSTIC ENGINEER'S REPORT FOR REQUIRED PERFORMANCE.

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Approved Application No. SSD 8937
granted on the 20 FEB 2019
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Sheet No. 16 of 27

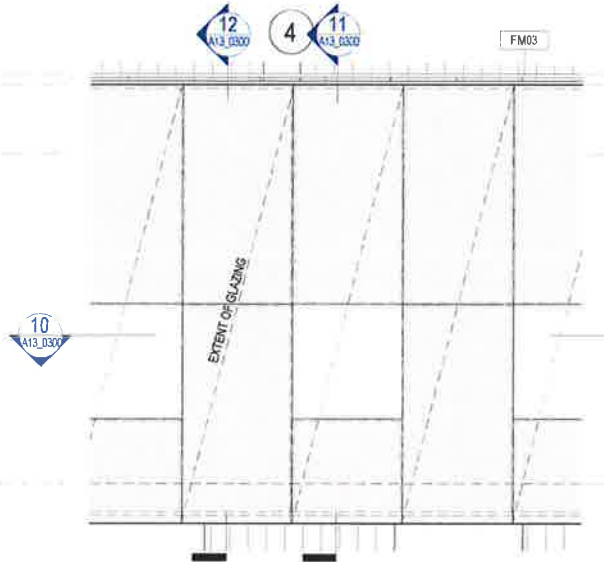


2 LEVEL 01 FT05 FULL DETAIL PLAN
SCALE 1:50

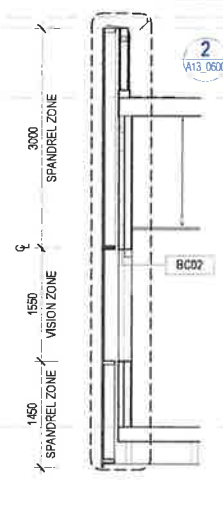
5 LEVEL 01 FT06 DETAIL PLAN
SCALE 1:50



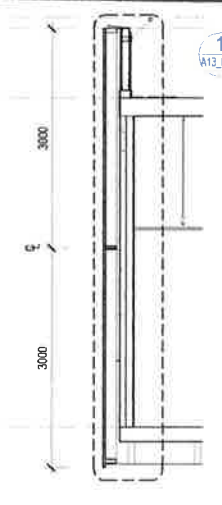
8 LEVEL 01 FT05 DETAIL SECTION
SCALE 1:50



9 LEVEL 01 FT04+05 DETAIL ELEVATION
A11_0000 SCALE 1:50



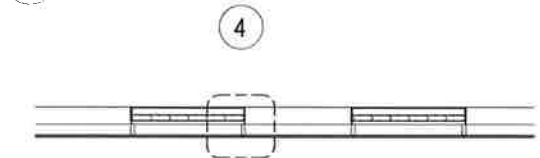
11 FT05 DETAIL SECTION
SCALE 1:50



12 FT04 DETAIL SECTION
SCALE 1:50



7 LEVEL 01 FT05 DETAIL PLAN
SCALE 1:50

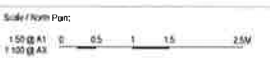


10 LEVEL 01 FT04+05 DETAIL PLAN
SCALE 1:50

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Drawing Status
ISSUED FOR TENDER
FOR INFORMATION

Drawing Title		
FACADE TYPES SHEET 03		
Drawn By YC	Checked By PA	Revision T1
Project Number D0136	Drawing Number A13_0300	Issue Date 25/10/2018
Project File D0136 UoN BioResources_R18		

Alt: Date: App: Revision or reason for issue
11 25/10/2018 PA Issued for Tender

UoN BIORESOURCES FACILITY

DESIGN PRINCIPLES - EXTERNAL MATERIAL SCHEDULE

DENTON
CORKER
MARSHALL

architecture + urban design



FT04/05/06	CD04	RF01
FT04/05/06	LV02	LV01
WT03	CD03	FT02
PV01	PV02	

MATERIAL 1	WT03	VERTICAL SPEED PANEL IN COLORBOND MONUMENT
MATERIAL 2	FT02	ALUMINIUM FRAMED UNITISED WINDOW WALL SYSTEM WITH STRUCTURALLY GLAZED DOUBLE GLAZED VISION PANELS
	FT04/05/06	STRUCTURALLY GLAZED SINGLE/DOUBLE GLAZED ALUMINIUM FRAMED UNITISED UNITS WITH GRADUATED WHITE FRIT
MATERIAL 3	RF01	COLORBOND METAL ROOF IN SHALE GREY
MATERIAL 4	LV01	LOUVRE CLAD ELLENBOROUGH SERIES VERTICAL LOUVRE IN MONUMENT
	LV02	LOUVRE CLAD HUDSON SERIES ACOUSTIC LOUVRE IN MONUMENT
MATERIAL 5	CD03	SOLID ALUMINIUM FLAT SHEET IN MONUMENT
	CD04	STAINLESS STEEL SHEATH FOR ROOF STACK
MATERIAL 6	PV01	EXPOSED AGGREGATE
	PV02	INSITU CONCRETE PAVING



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Environment

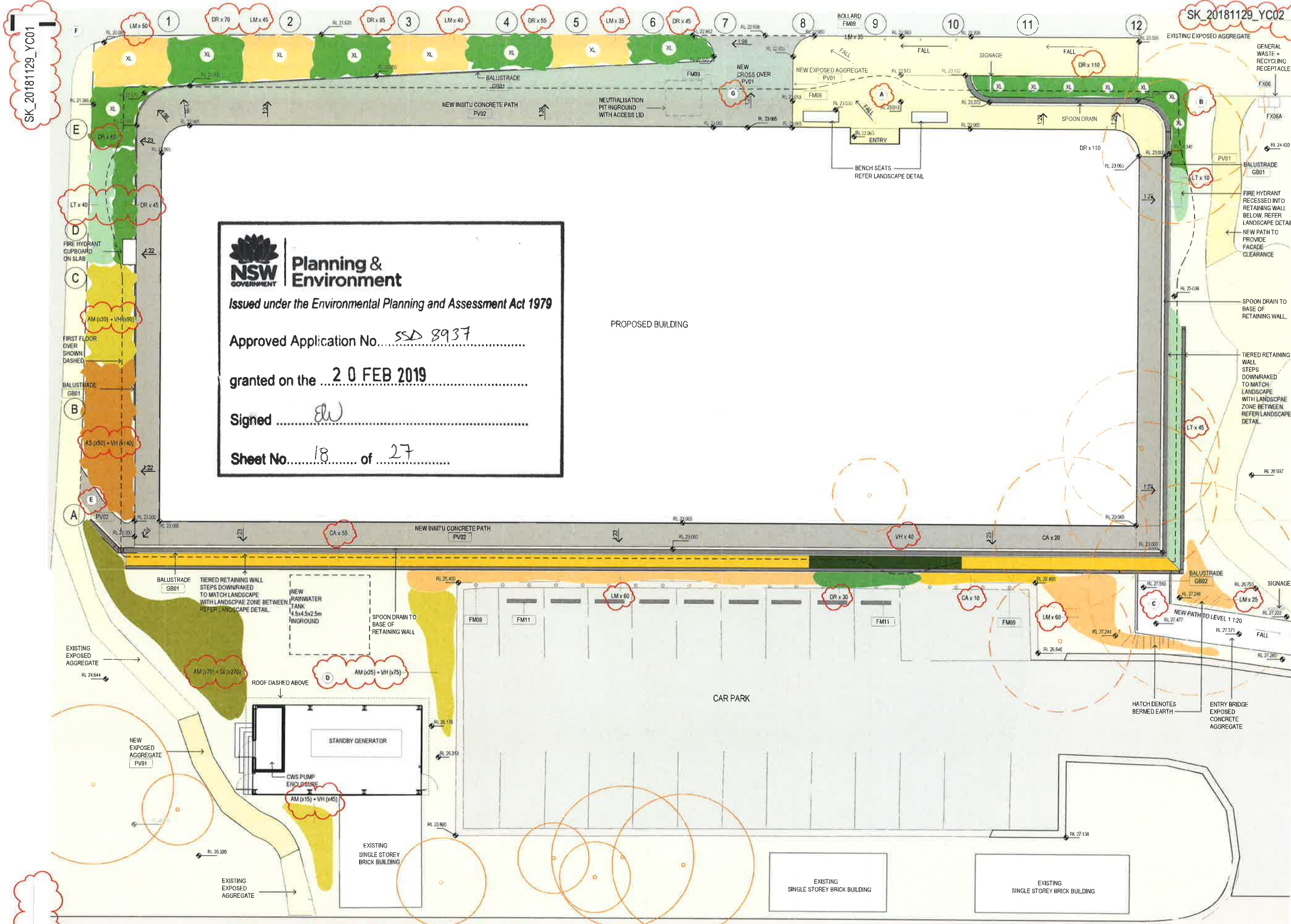
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 8937

granted on the 20 FEB 2019

Signed [Signature]

Sheet No. 17 of 27



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granted on the 20 FEB 2019
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Sheet No. 18 of 27

- SITEWORKS NOTES:**
- REFER CIVIL + SERVICES DOCUMENTATION FOR EXTERNAL / SITE WORKS
 - REFER SITE SURVEY FOR EXISTING CONDITIONS
 - TO BE READ IN CONJUNCTION WITH ARBORIST REPORT, LANDSCAPE MATERIAL SCHEDULE, AND CIVIL DOCUMENTATION.
 - PROVIDE REPLACEMENT TOP SOIL + TAN BARK AS REQUIRED TO MATCH EXISTING UPON COMPLETION
 - NUMBER OF PLANTS IS NOMINAL - CONFIRM REQUIREMENTS ON SITE PRIOR TO ORDERING
- LEGEND - NEW LANDSCAPE**
- XL GRASS TREE XANTHORRHEA LATIFOLIA
 - DR FLAX LILY DIANELA REVOLUTA
 - AM + DI MYRTLE WATTLE + KIDNEY WEED ACACIA MYRTIFOLIA + DICHONDRA REPENS
 - AM + VH MYRTLE WATTLE + NATIVE VIOLETS ACACIA MYRTIFOLIA + VIOLA HEDERACEA
 - AS + VH SWEET SCENTED WATTLE + NATIVE VIOLETS ACACIA SUAVEOLENS + VIOLA HEDERACEA
 - CA KANGAROO VINE CISSUS ANANTARICA
 - VH NATIVE VIOLETS VIOLA HEDERACEA
 - LT TANIKIA L OMANDRA LOMANDRA LONGIFOLIA 'TANIKIA'
 - LM MATT RUSH LOMANDRA MULTIFLORA
 - NEW EXPOSED AGGREGATE PV01
 - NEW INSITU CONCRETE PATH PV02
- LEGEND - EXISTING LANDSCAPE**
- EXISTING LANDSCAPE (TAN BARK)
 - EXISTING EXPOSED AGGREGATE
 - EXISTING INSITU CONCRETE PATH
 - EXISTING TREES TO BE MAINTAINED
 - EXISTING TREES TO BE REMOVED

LANDSCAPE DESCRIPTION:

- NEW PRIMARY BUILDING ENTRY IDENTIFIED BY TIMBER FEATURE SEATING - NORTHERN CURVED CANTILEVERED GLASS FACADE OVERHEAD THE ENTRY IS PLANNED BY MASS PLANTINGS OF FLAX LILY + MATT RUSH WITH STRUCTURED FEATURES PROVIDED BY REGULARLY SPACED GRASS TREE PLANTINGS.
- PORTION OF EXISTING PATH REINSTATED TO PROVIDE SUTABLE FACADE CLEARANCE. EASTERN RETAINING WALL SOFTENED BY PLANTINGS OF FLAX LILY + TANIKIA LOMANDRA
- NEW SECONDARY ENTRY BRIDGE CONNECTION SUPPORTED BY BERMED EARTH COVERED IN MASS PLANTING OF MATT RUSH SOUTHERN RETAINING WALL SOFTENED BY MASS PLANTING OF KANGAROO VINE + NATIVE VIOLETS + FLAX LILY + MATT RUSH
- EXTERNAL SERVICE PAVILION - CAR PARK SCREENING PROVIDED BY INTRODUCING MASS PLANTING OF MYRTLE WATTLE + SWEET SCENTED WATTLE. THE COMBINATION OF THESE SHRUBS + SELECT GROUND COVERS ALSO ASSIST IN BREAKING UP EXISTING OPEN MULCHED ZONES
- NEW GRESS PATH CONNECTION
- WESTERN EMBANKMENT SOFTENED + RETAINED BY MASS PLANTING OF SHRUBS + GRASSES + STRAPPY PLANTS. GROUND COVERS + GRASS TREES
- PROPOSED VEHICLE + MAINTENANCE ACCESS PATH DIFFERENTIATION OF HARDSCAPE MATERIALS + INTRODUCTION OF BOLLARDS PROVIDE DEFINITION + SEGREGATION + PROTECTION

No	Date	App	Revision or reason for issue
T1	25/10/2018	PA	Issued for Tender
T2	15/11/2018	PA	Issued for Tender
T3	29/11/2018	PA	Requested Planning Amendments

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Drawing Title		
LANDSCAPE OVERALL PLAN		
Drawn By	Checked By	
YC	PA	
Project Number	Drawing Number	Revision
D0136	A04_0000	T3
Project File	Issue Date	
D0136 UoN BioResources_R18	29/11/2018	

CODE	NAME	COMMON NAME	DETAILS				
			HEIGHT AND SPREAD	NOMINAL PLANTS PER M2	IMAGE	SIZE POT	NOMINAL NUMBER
LANDSCAPE MATERIALS							
TREES							
XL	Xanthorrhrea Latifolia	Grass Tree	3.0m x 3.0m	N/A		40cm	16
SHRUBS							
AM	Acacia myrtifolia	Myrtle Wattle	1.2m x 1.0m	2		20CM	140
AS	Acacia suaveolens	Sweet scented wattle	1.5m x1.5m	2		20CM	50
GRASSES/STRAPPY PLANTS							
LM	Lomandra multiflora	Matt Rush	0.8m x 0.8m	4		14CM	315



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Approved Application No. SSA 8937

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Sheet No. 19 of 27

CODE	NAME	COMMON NAME	DETAILS				
			HEIGHT AND SPREAD	NOMINAL PLANTS PER M2	IMAGE	SIZE POT	NOMINAL NUMBER
LT	Lomandra longifolia "Tanika"	Tanika Lomandra	0.7m x 0.7m	4		14CM	95
DR	Dianella revoluta	Flax Lily	0.5m x 0.5m	6		14CM	480
GROUND COVERS/CLIMBERS							
VH	Viola hederacea	Native Violets	0.5m x 0.5m	6		14CM	390
DI	Dichondra repens	Kidney Weed	0.3m x 0.3m	8		14CM	270


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 Signed ...  ...
 Sheet No. 20 of 27

CODE	NAME	COMMON NAME	DETAILS				
			HEIGHT AND SPREAD	NOMINAL PLANTS PER M2	IMAGE	SIZE POT	NOMINAL NUMBER
CA	Cissus Antarctica	Kangaroo Vine	0.3 x 4.0m	2		14CM	85

	Revision
--	----------



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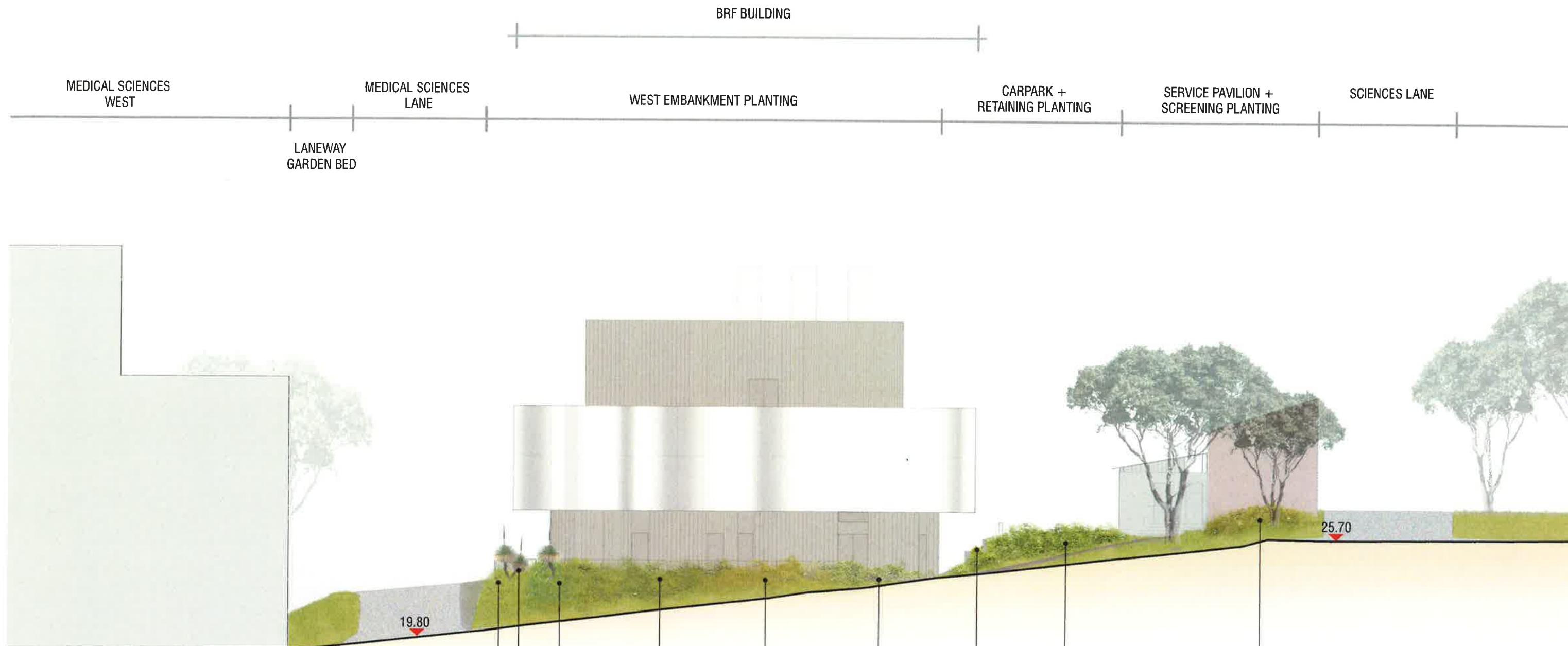
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Approved Application No.....SSD 8937.....

granted on the20 FEB 2019.....

Signed.....

Sheet No.....21..... of27.....



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 Approved Application No. SSA 8937
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 Sheet No. 22 of 27

- Lomandra Multiflora
Xanthorrhoea Latifolia
Dianella Revoluta
- Lomandra Longifolia "Tanika"
- Acacia Myrtifolia + Viola Hederacea
- Acacia Suaveolens + Viola Hederacea
- Cissus Antarctica
- Acacia Myrtifolia + Dichondra Repens
- Acacia Myrtifolia + Viola Hederacea

PROJ# D0136
 PLANNING
 NTS @A3

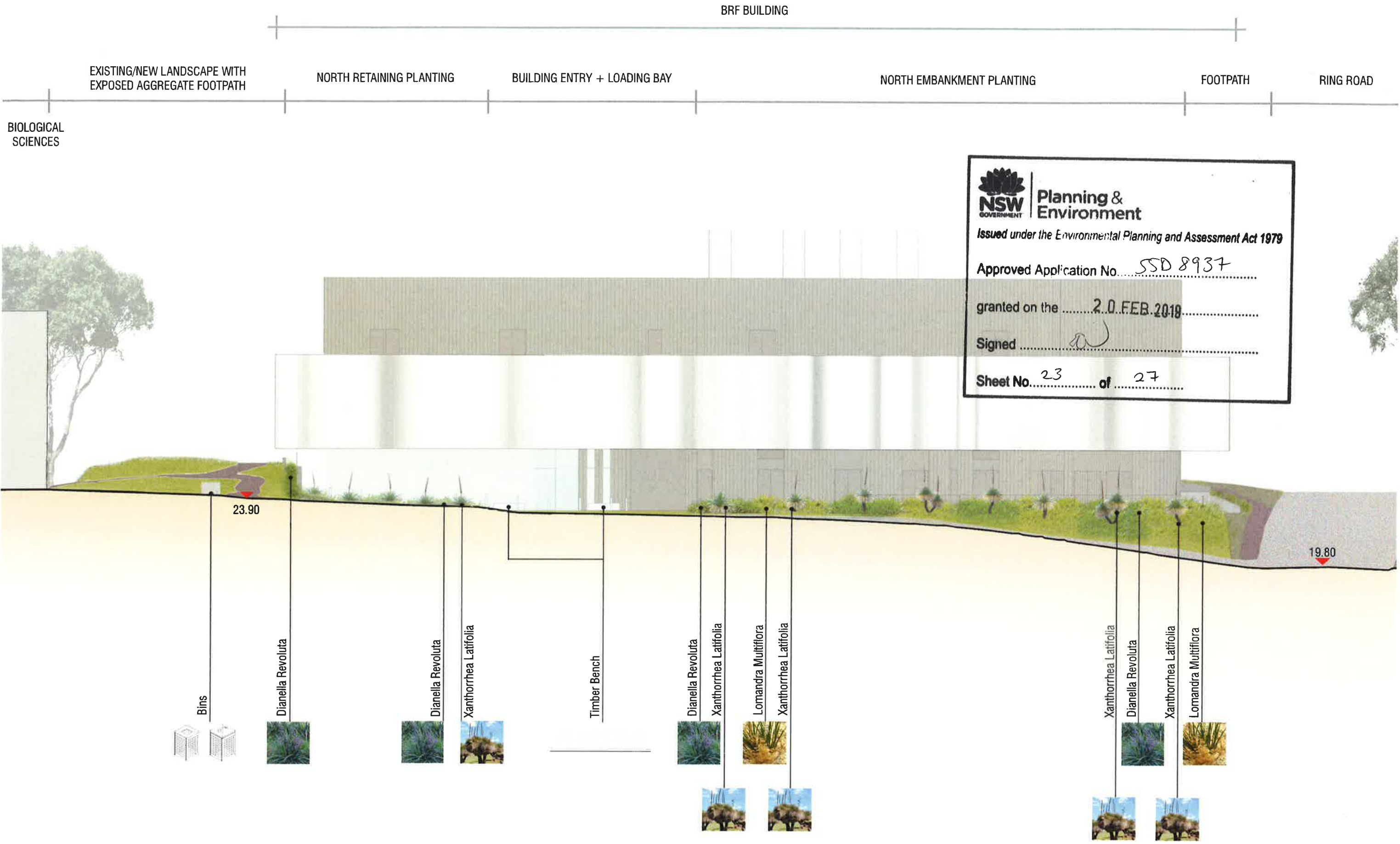
REV# P01
 20.11.2018



DENTON
 CORKER
 MARSHALL

BIORESOURCES FACILITY
 CALLAGHAN NEWCASTLE
 UNIVERSITY OF NEWCASTLE
 CALLAGHAN CAMPUS

PLANNING
 SK_20181129_YC01
 LANDSCAPE CROSS SECTION - WEST
 FOR INFORMATION ONLY



NSW GOVERNMENT | **Planning & Environment**

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Approved Application No. SSD 8937

granted on the 2.0 FEB. 2018

Signed [Signature]

Sheet No. 23 of 27

PROJ# D0136
PLANNING
NTS @ A3

REV# P01
20.11.2018



**DENTON
CORKER
MARSHALL**

**BIORESOURCES FACILITY
CALLAGHAN, NEWCASTLE
UNIVERSITY OF NEWCASTLE
CALLAGHAN CAMPUS**

**PLANNING
SK 20181129_YC02
LANDSCAPE CROSS SECTION - NORTH
FOR INFORMATION ONLY**



1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE APPROPRIATE FOR THE SOIL/TYPE(S) OF THE SOILS ON-SITE, IN ACCORDANCE WITH THE 'BLUE BOOK' (MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION, LANDCOM, 2004), OR OTHER CURRENT RECOGNISED INDUSTRY STANDARDS FOR EROSION AND SEDIMENT CONTROL FOR AUSTRALIAN CONDITIONS. THIS INCLUDES SEDIMENT TRAPS AND LINING OF CHANNELS.
2. THE CONTRACTOR SHALL BE KEEPING A DETAILED WRITTEN RECORD OF ALL EROSION AND SEDIMENT CONTROLS ON-SITE DURING THE CONSTRUCTION PERIOD. THIS RECORD SHALL BE UPDATED ON A DAILY BASIS AND SHALL CONTAIN DETAILS ON THE CONDITION OF CONTROLS AND ANY/ALL MAINTENANCE, CLEANING OR REPAIRS. THIS RECORD SHALL BE KEPT ON-SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE PRINCIPAL CERTIFYING AUTHORITY AND THE SUPERINTENDENT DURING NORMAL WORKING HOURS.
3. INSTALL SEDIMENT PROTECTION FILTERS ON ALL NEW AND EXISTING STORMWATER INLET PITS IN ACCORDANCE WITH EITHER THE MESH AND GRAVEL INLET FILTER DETAIL SD6-110R OR THE GEOTEXTILE INLET FILTER DETAIL SD6-12 OF THE 'BLUE BOOK'.
4. ESTABLISH ALL REQUIRED SEDIMENT FENCES IN ACCORDANCE WITH DETAIL SD6-8 OF THE 'BLUE BOOK'.
5. INSTALL SEDIMENT FENCES OR OTHER SEDIMENT CONTROL DEVICES, AROUND INDIVIDUAL BUILDING ZONES/AREAS AS REQUIRED AND AS DIRECTED BY THE SUPERINTENDENT OR APPROPRIATE COUNCIL OFFICER.
6. ALL TRENCHES INCLUDING ALL SERVICE TRENCHES AND SWALE EXCAVATION SHALL BE SIDE-CAST TO THE HIGH SIDE AND CLOSED AT THE END OF EACH DAY.
7. THE CONTRACTOR SHALL ENSURE THAT ALL VEGETATION (TREE, SHRUB & GRASS COVER) WHICH IS TO BE RETAINED SHALL BE PROTECTED DURING THE REMOVAL OF CONSTRUCTION.
8. ALL VEGETATION TO BE REMOVED SHALL BE MULCHED ON-SITE AND SPREAD STOCKPILE. IN DIRECT ACCORDANCE WITH THE SUPERINTENDENT STRIP TOPSOIL IN RE-USE AS DEMONSTRATED. MULCHING AND STOCKPILE FOR RE-USE AS REQUIRED. ANY SURPLUS MATERIAL SHALL BE SPREAD ON-SITE AS DIRECTED BY THE SUPERINTENDENT OR REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH EPA GUIDELINES.
9. CONSTRUCT AND MAINTAIN ALL MATERIAL STOCKPILES IN ACCORDANCE WITH DETAIL SD4-1 OF THE 'BLUE BOOK' (INCLUDING CUT-OFF SWALES TO THE HIGH SIDE AND SEDIMENT FENCES TO THE LOW SIDE).
10. ENSURE STOCKPILES DO NOT EXCEED 2m high PROVIDE WIND AND RAINSPRUSION PROTECTION AS REQUIRED IN ACCORDANCE WITH THE 'BLUE BOOK'.
11. PROVIDE WATER TRUCKS OR SPRINKLER DEVICES DURING CONSTRUCTION AS REQUIRED TO SUPPRESS DUST.
12. WHERE CONSTRUCTION HAS BEEN FINALISED ALL DISTURBED AREAS THAT ARE NOT BEING WORKED ON SHALL BE RE-VEGETATED AND/OR RE-EROSION PROTECTED.

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Approved Application No. SSD 8937

granted on the 20 FEB 2019

Signed ew

Sheet No. 24 of 27



ISSUED FOR APPROVAL

REVISION	DESCRIPTION	ISSUED	VER:0	APP'D	DATE	CLIENT	ARCHITECT	PROJECT	DRAWING TITLE	JOB NUMBER
1	ISSUED FOR APPROVAL	CS		CS	23 05 18	 THE UNIVERSITY OF NEWCASTLE AUSTRALIA	 DENTON CORKER MARSHALL	 UoN BIO-RESOURCES FACILITY	EROSION AND SEDIMENT CONTROL PLAN	NL171955
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.	ALL SETOUT TO ARCHITECT'S DRAWINGS. DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT AND ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.	Scale 1:100 @ A1 	Northrop Suite 11, 215 Pacific Highway, Cammerajong NSW 2280 P.O. Box 180, Cammerajong NSW 2280 Ph: (02) 59 33 7777 Fax: (02) 59 33 1577 Email: northrop@northrop.com.au ABRN 81 09 01 93 100



1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

The image contains three technical drawings of a silt fence:

- Perspective View (Top Left):** Shows a silt fence installed in a channel. Labels include:
 - 15m STAR PICKETS AT MAX 2.5m CENTRES
 - DISTURBED AREA
 - UNDISTURBED AREA
 - DIRECTION OF FLOW
- SECTION DETAIL (Top Right):** A cross-sectional view of the fence. Labels include:
 - 15m STAR PICKETS AT MAX 2.5m CENTRES
 - SELF-SUPPORTING GEOTEXTILE
 - DIRECTION OF FLOW
 - ON SOIL, 150mmx100mm TRENCH WITH COMPACTED BACKFILL AND ON ROCK, SET INTO SURFACE CONCRETE
 - Dimensions: 600 to 800 (height), 600 MIN (height), 500mm MIN (trench depth)
- PLAN (Bottom):** A top-down view of the fence layout. Labels include:
 - 20m MAX (UNLESS STATED OTHERWISE ON SWMP/ESCP)
 - FLOW
 - STAR PICKETS AT MAX 2.5m CENTRES
 - Scale: 1:10

CONSTRUCTION NOTES

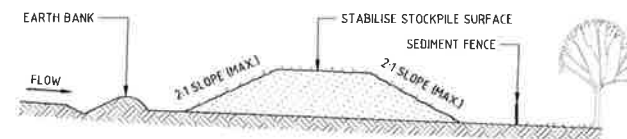
1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA. ANY ONE SECTION OF THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED
3. DRIVE 15 METRE LONG STAR PICKETS INTO GROUND AT 25 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE

SEDIMENT FENCE (SD 6-8)



- 1 FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND
FILL IT WITH 25mm TO 50mm GRAVEL.
- 2 FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE
- 3 PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET.
MAINTAIN THE OPENING WITH SPACER BLOCKS.
- 4 FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER
- 5 SANDS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE
PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LOAMY WATERS CANNOT PASS
BETWEEN.

MESH AND GRAVEL INLET FILTER
SCALENTS



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10
5. CONSTRUCT EARTH BARRS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

STOCKPILES (SD 4-1)

 **NSW**
GOVERNMENT

**Planning &
Environment**

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 8937

granted on the 20 FEB 2019

Signed [Signature]

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ISSUED FOR APPROVAL

REVISION	DESCRIPTION	ISSUED	VER D	APP'D	DATE	CLIENT	ARCHITECT	PROJECT	DRAWING TITLE	JOB NUMBER
1	ISSUED FOR APPROVAL	CS		CS	23 05 18	 THE UNIVERSITY OF NEWCASTLE AUSTRALIA	 DENTON CORKER MARSHALL	 UoN BIO-RESOURCES FACILITY	EROSION AND SEDIMENT CONTROL DETAILS	NL171955
						 THE UNIVERSITY OF NEWCASTLE AUSTRALIA	 DENTON CORKER MARSHALL	 UoN BIO-RESOURCES FACILITY	EROSION AND SEDIMENT CONTROL DETAILS	C11
						 THE UNIVERSITY OF NEWCASTLE AUSTRALIA	 DENTON CORKER MARSHALL	 UoN BIO-RESOURCES FACILITY	EROSION AND SEDIMENT CONTROL DETAILS	1

