A1

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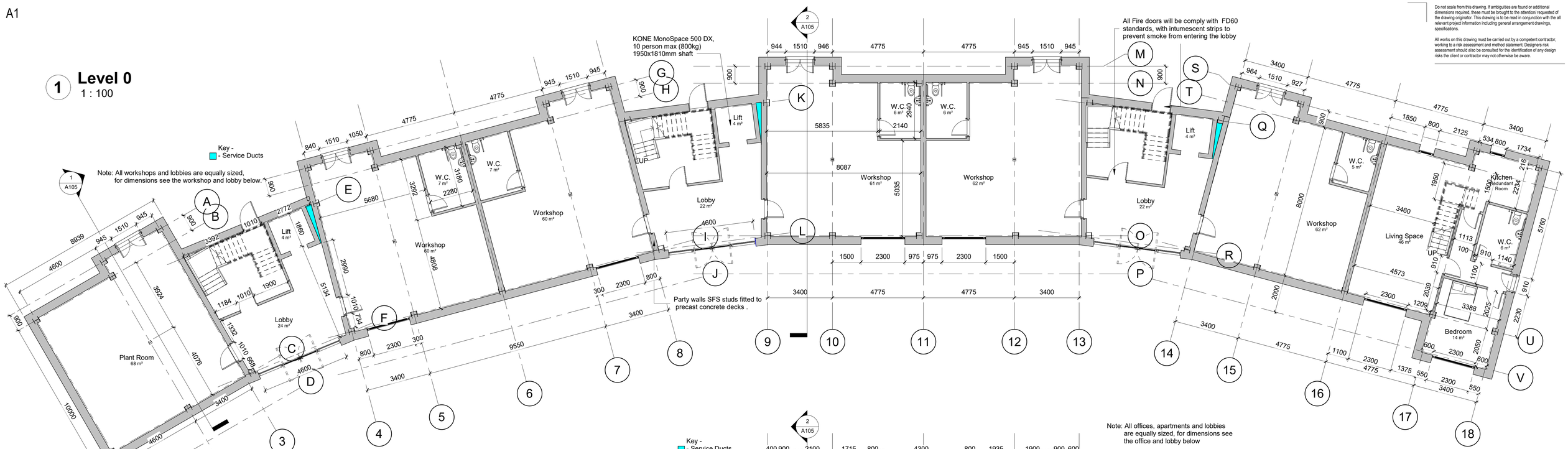
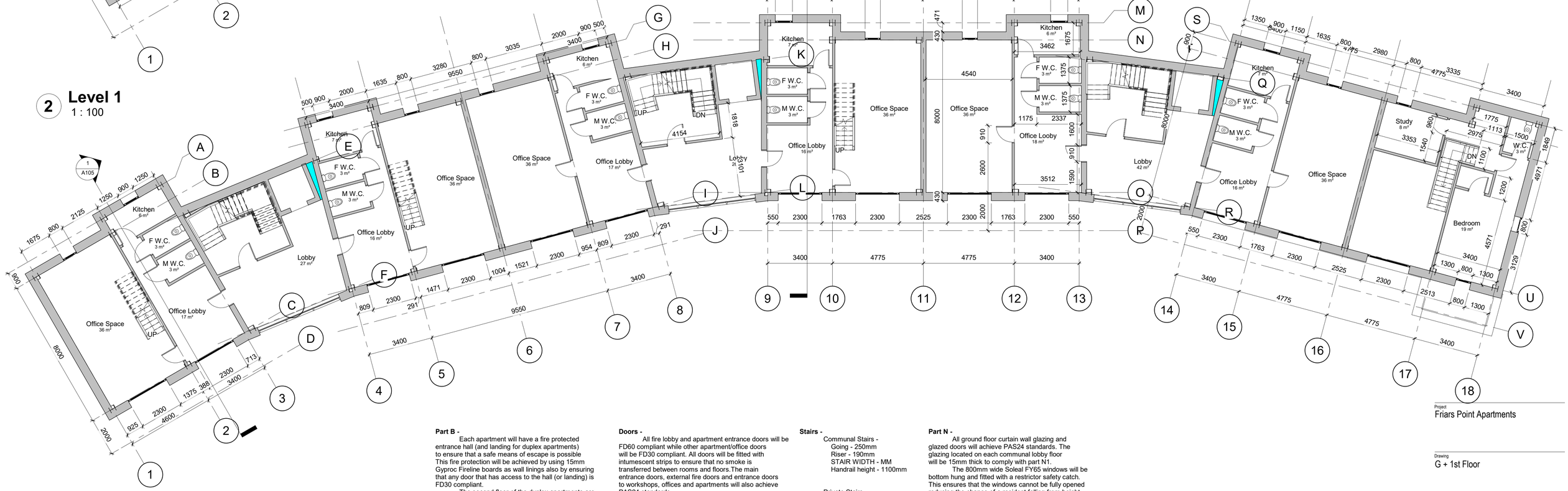
1 Level 0
1 : 100



2 Level 1
1 : 100



Part B -

Each apartment will have a fire protected entrance hall (and landing for duplex apartments) to ensure that a safe means of escape is possible This fire protection will be achieved by using 15mm Gyproc Fireline boards as wall linings also by ensuring that any door that has access to the hall (or landing) is FD30 compliant.

The second floor of the duplex apartments are designed to ensure that the furthest point from the top of the stairwell is 7m (below the 7.5m given in section 3.13 of Approved document B1).

Each apartment floor will be fitted with one smoke detector alarm, placed in the open plan living spaces and upper floor circulation area. These will be linked to ensure that detection of smoke by one unit operates the alarm signal in the other, to ensure that residents can escape quickly and safely.

Doors -

All fire lobby and apartment entrance doors will be FD60 compliant while other apartment/office doors will be FD30 compliant. All doors will be fitted with intumescent strips to ensure that no smoke is transferred between rooms and floors.The main entrance doors, external fire doors and entrance doors to workshops, offices and apartments will also achieve PAS24 standards.

Stairs -

Communal Stairs -
Going - 250mm
Riser - 190mm
STAIR WIDTH - MM
Handrail height - 1100mm

Private Stairs-
Going - 250mm
Riser - 210mm
Stair width - 1000mm
Handrail height - 1100mm

The landings' width and length is equall to the stair width

Part N -

All ground floor curtain wall glazing and glazed doors will achieve PAS24 standards. The glazing located on each communal lobby floor will be 15mm thick to comply with part N1.

The 800mm wide Soleal FY65 windows will be bottom hung and fitted with a restrictor safety catch. This ensures that the windows cannot be fully opened reducing the chance of a resident falling from height.

Project
Friars Point Apartments

Drawing
G + 1st Floor

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A1
1 : 100

Date
12/11/19

Drawing Number
A101

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd

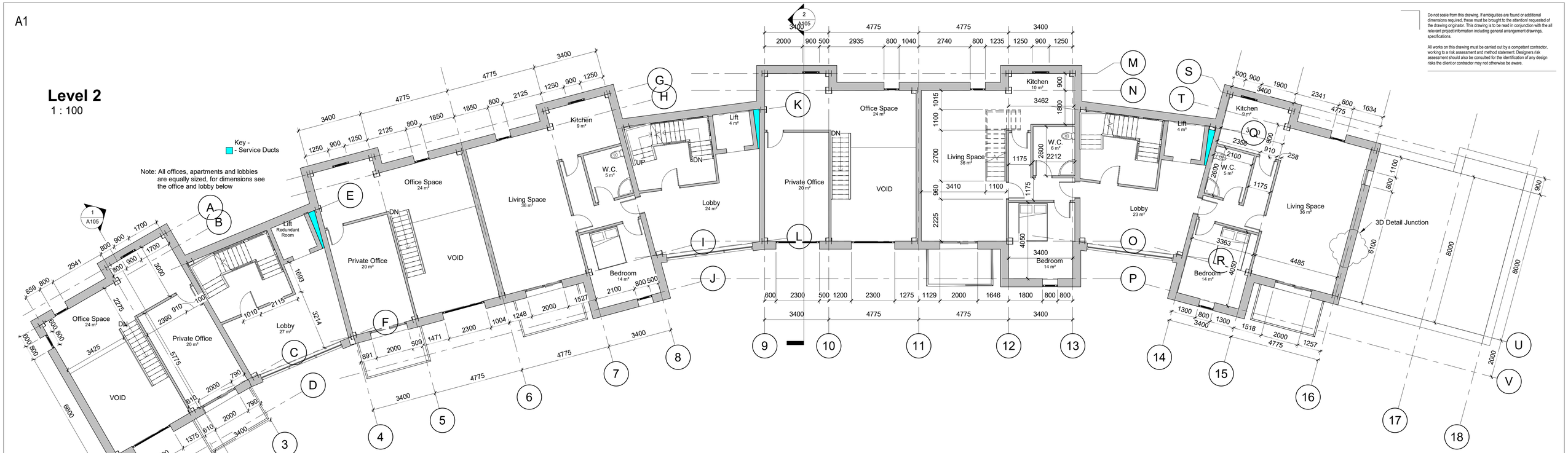
BSc (Hons) Architectural Design & Technology

Cardiff School of Art and Design | Llandaff Campus

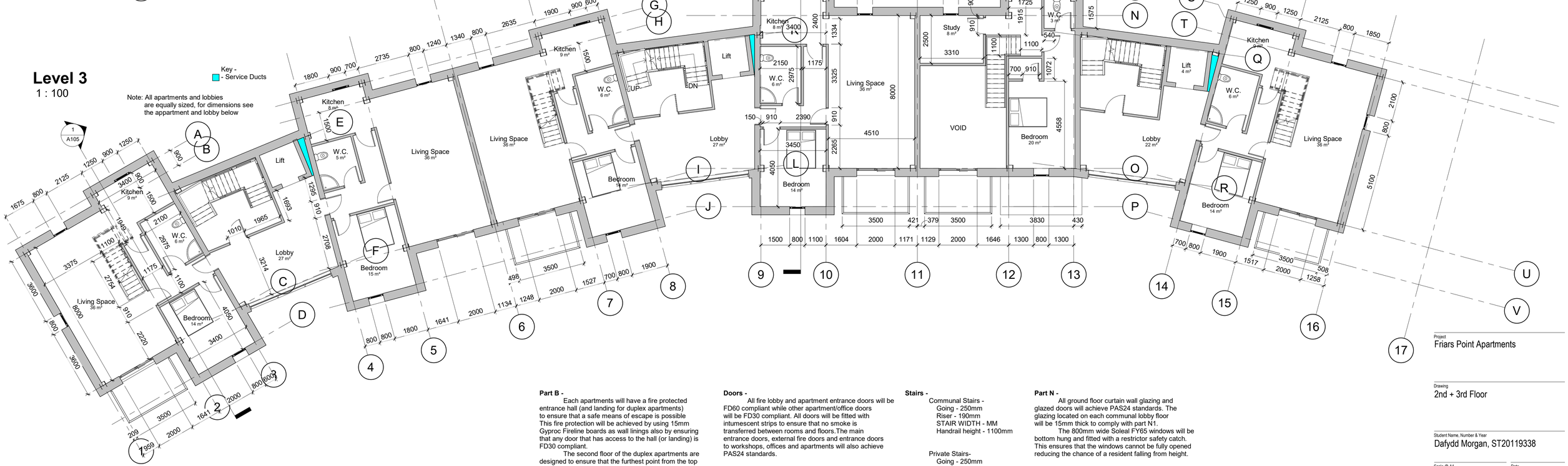
Print Date: 20/5/2020 09:44:44

A1

Level 2
1 : 100



Level 3
1 : 100



Part B -

Each apartments will have a fire protected entrance hall (and landing for duplex apartments) to ensure that a safe means of escape is possible This fire protection will be achieved by using 15mm Gyproc Fireline boards as wall linings also by ensuring that any door that has access to the hall (or landing) is FD30 compliant.

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Communal Stairs -
Going - 250mm
Riser - 190mm
STAIR WIDTH - MM
Handrail height - 1100mm

Private Stairs-
Going - 250mm
Riser - 210mm
Stair width - 1000mm
Handrail height - 1100mm

The landings' width and length is equall to the stair width

Part N -

All ground floor curtain wall glazing and glazed doors will achieve PAS24 standards. The glazing located on each communal lobby floor will be 15mm thick to comply with part N1.

The 800mm wide Soleal FY65 windows will be bottom hung and fitted with a restrictor safety catch. This ensures that the windows cannot be fully opened reducing the chance of a resident falling from height.

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Project
Friars Point Apartments

Drawing
2nd + 3rd Floor

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A1
1 : 100

Date
12/12/19

Drawing Number
A102

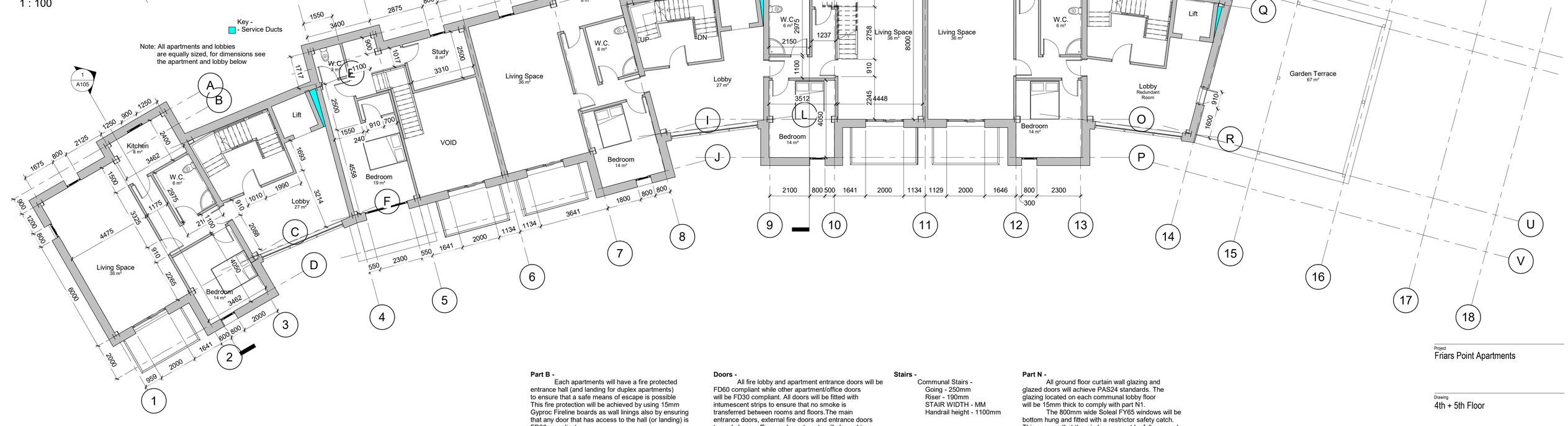
Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd
BSc (Hons) Architectural Design & Technology
Cardiff School of Art and Design | Llandaff Campus

Print Date: 20/5/2020 16:44:46

A1

Level 4
1 : 100

Level 5
1 : 100



Part B -

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The second floor of the duplex apartments are designed to ensure that the furthest point from the top of the stairwell is 7m (below the 7.5m given in section 3.13 of Approved document B1).

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Stairs -

Communal Stairs -
Going - 250mm
Riser - 190mm
STAIR WIDTH - MM
Handrail height - 1100mm

Private Stairs-
Going - 250mm
Riser - 210mm
Stair width - 1000mm
Handrail height - 1100mm

The landings' width and length is equall to the stair width

Part N -

All ground floor curtain wall glazing and glazed doors will achieve PAS24 standards. The glazing located on each communal lobby floor will be 15mm thick to comply with part N1.

The 800mm wide Soleal FY65 windows will be bottom hung and fitted with a restrictor safety catch. This ensures that the windows cannot be fully opened reducing the chance of a resident falling from height.

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Project
Friars Point Apartments

Drawing
4th + 5th Floor

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A1
1 : 100

Date
12/12/19

Drawing Number
A103

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd
BSc (Hons) Architectural Design & Technology
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Print Date: 20/05/2020 09:44:48

A1

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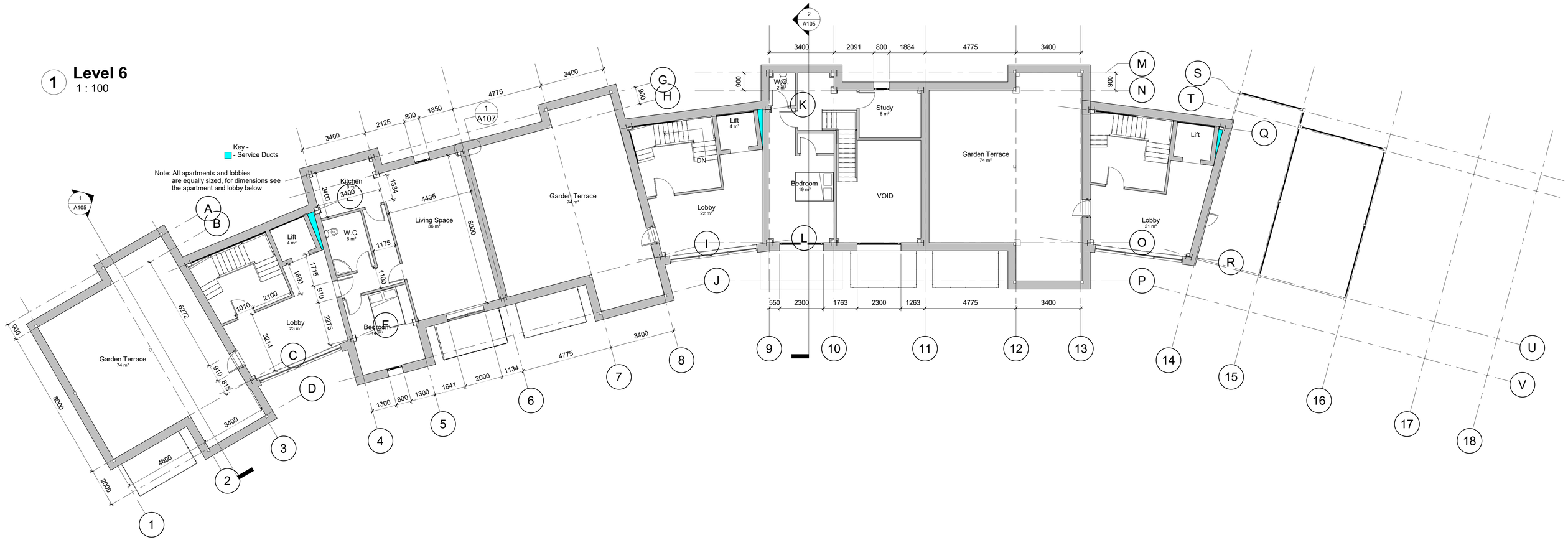
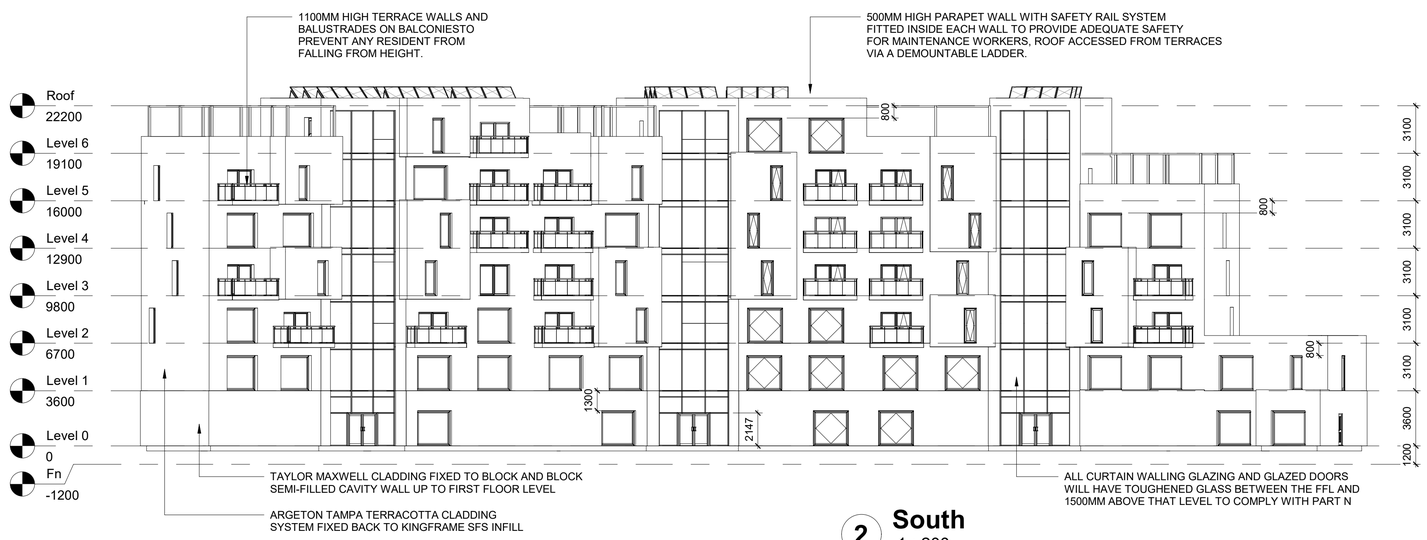
1 Level 6
1 : 100





2 South
1 : 200

Project
Friars Point Apartments

Drawing
6th Floor + Elevation

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A1
As indicated

Date
12/12/19

Drawing Number
A104

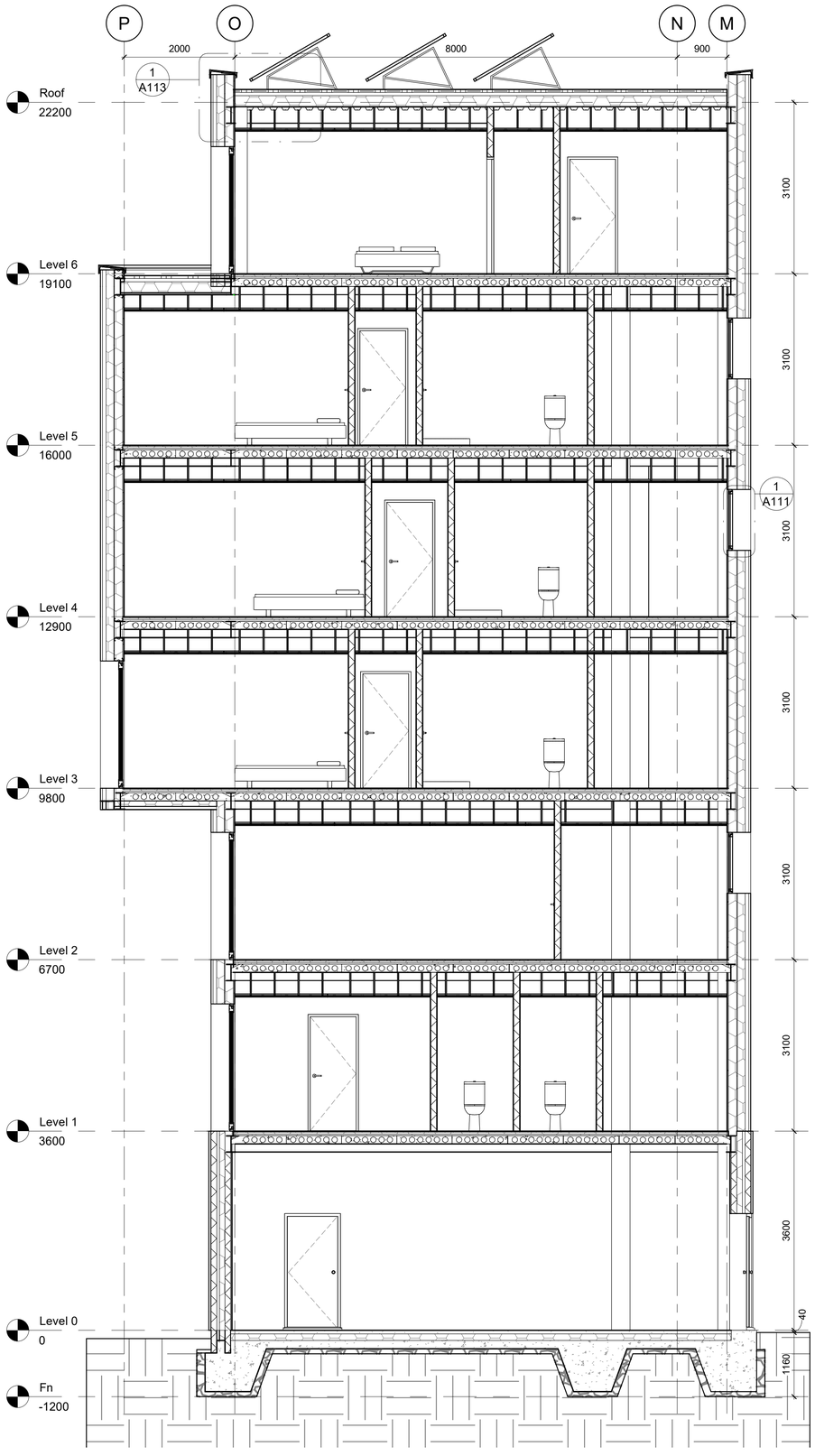
Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd

BSc (Hons) Architectural Design & Technology

Cardiff School of Art and Design | Llandaff Campus

Print Date: 20/5/2020 09:44:52

A1



Part A - The pre-fabricated steel frame will support pre-cast concrete slabs on steel angles fitted inside the webs of the primary beams. A secondary Kingspan KingFrame SFS system will connect the wall build-up to the primary frame. A glulam column and beam frame on the garden terraces provide the residents with a natural looking terrace, this frame will be fitted back to the primary steel frame.

Part B - All primary structure will be pre-coated with Nullifire SC802 intumescent paint and enclosed in a 15mm Gyproc Fireline board to comply with part B of the building regulations. All ceilings and walls will consist of a 15mm Gyproc Fireline board to provide floor to floor and room to room fire resistance.

Part E - A 5mm Ikoustic MuteMat beneath all floor finishes prevents airborne and impact sounds from travelling between each room and floor. A 30mm Rockwool RWA45 insulation layer below the MuteMat gives additional 41dB of sound reduction in heavily trafficked areas.

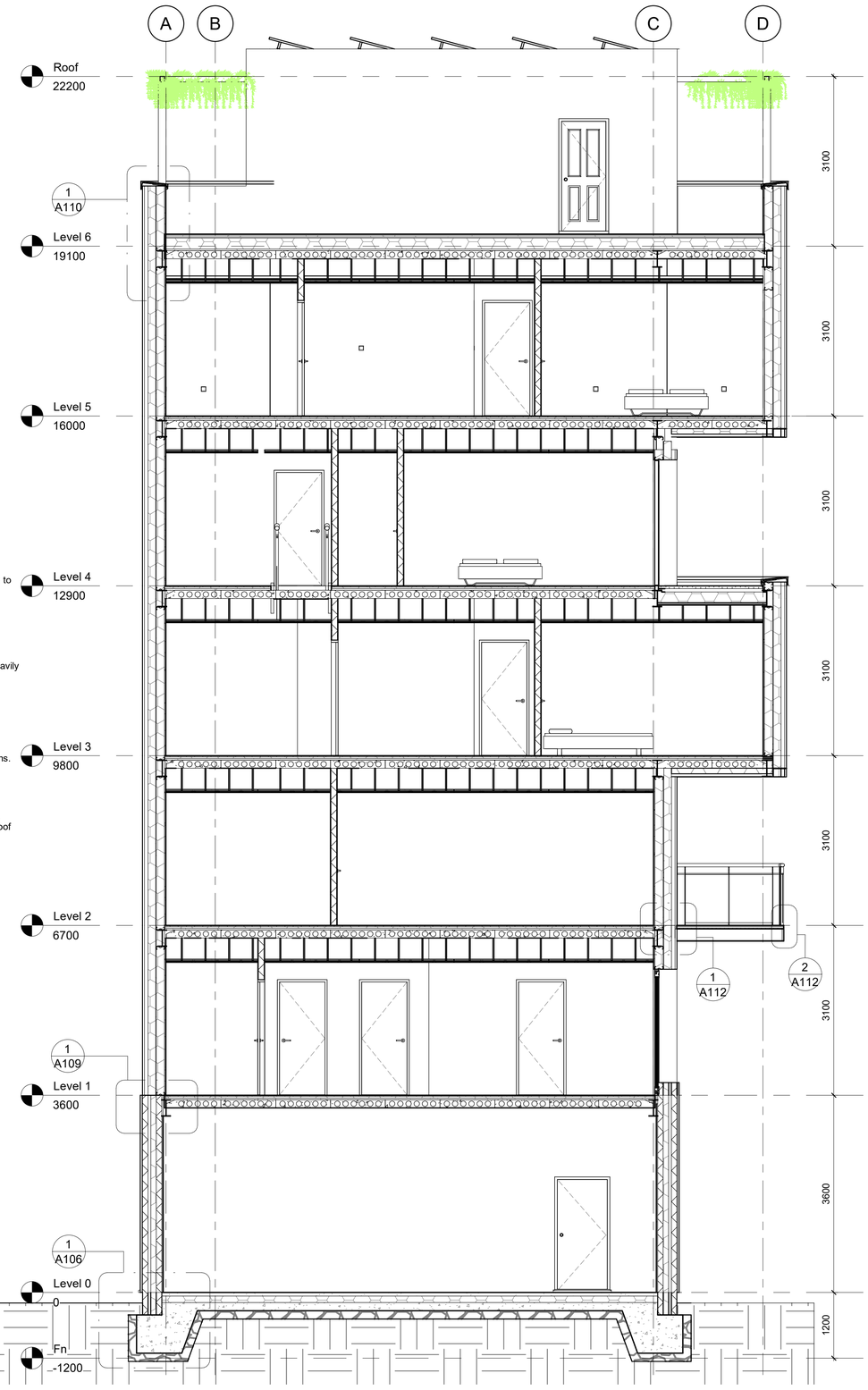
Part H - The rainwater from garden terraces are collected by gutters located on each parapet/floor junction, the water will then be carried to the rainwater collection tanks via a series of downpipes situated inside the webs of the primary steel columns.

Part K - All garden terrace walls and balcony balustrades are higher than the nominal 1100mm to prevent any user from falling from height. The construction of these walls and balustrades are also climb proof to prevent any hazards for small children.

U-Values - Ground floor masonry wall - 0.17 W/m²K
1st floor to Roof level rainscreen wall - 0.18 W/m²K
Ground floor - 0.13 W/m²K
BioSolar Roof - 0.13 W/m²K
Terrace Floor - 0.13 W/m²K

Part N - All curtain walling glazing and glazed doors will have toughened glass between the FFL and 1500mm above that level to comply with part N

2 Section 2- Construction
1 : 50



1 Section 1 - Construction
1 : 50

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Project
Friars Point Apartments

Drawing
Sections

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A1
1 : 50

Date
04/21/20

Drawing Number
A105

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd

BSc (Hons) Architectural Design & Technology

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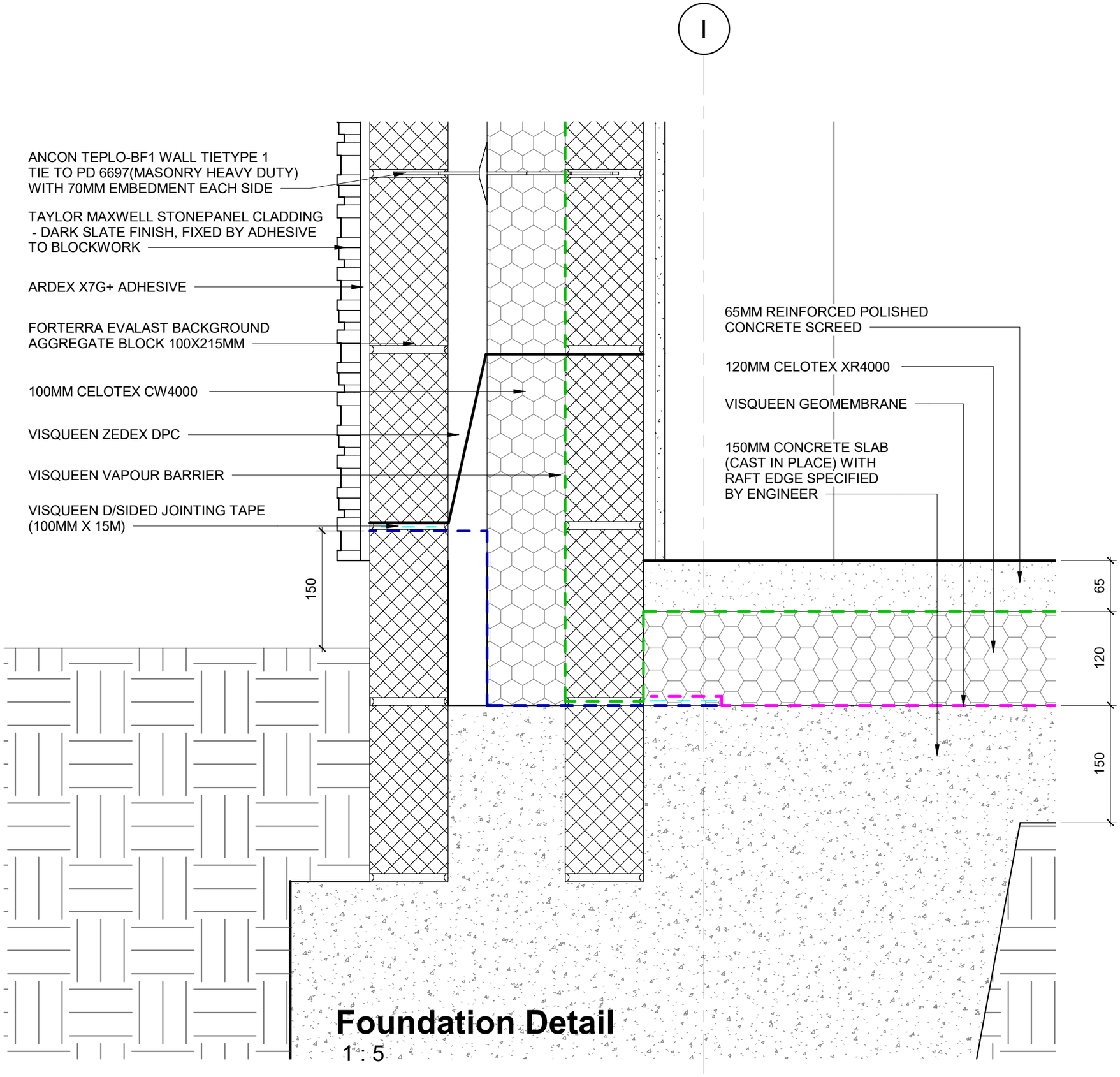
Print Date: 20/5/2020 09:45:00

A3



Foundation Detail
1 : 5

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Project
Friars Point Apartments

Drawing
Foundation Detail

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A3
1 : 5

Date
05/09/20

Drawing Number
A106

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Print Date: 20/05/2020 09:50:05

A3

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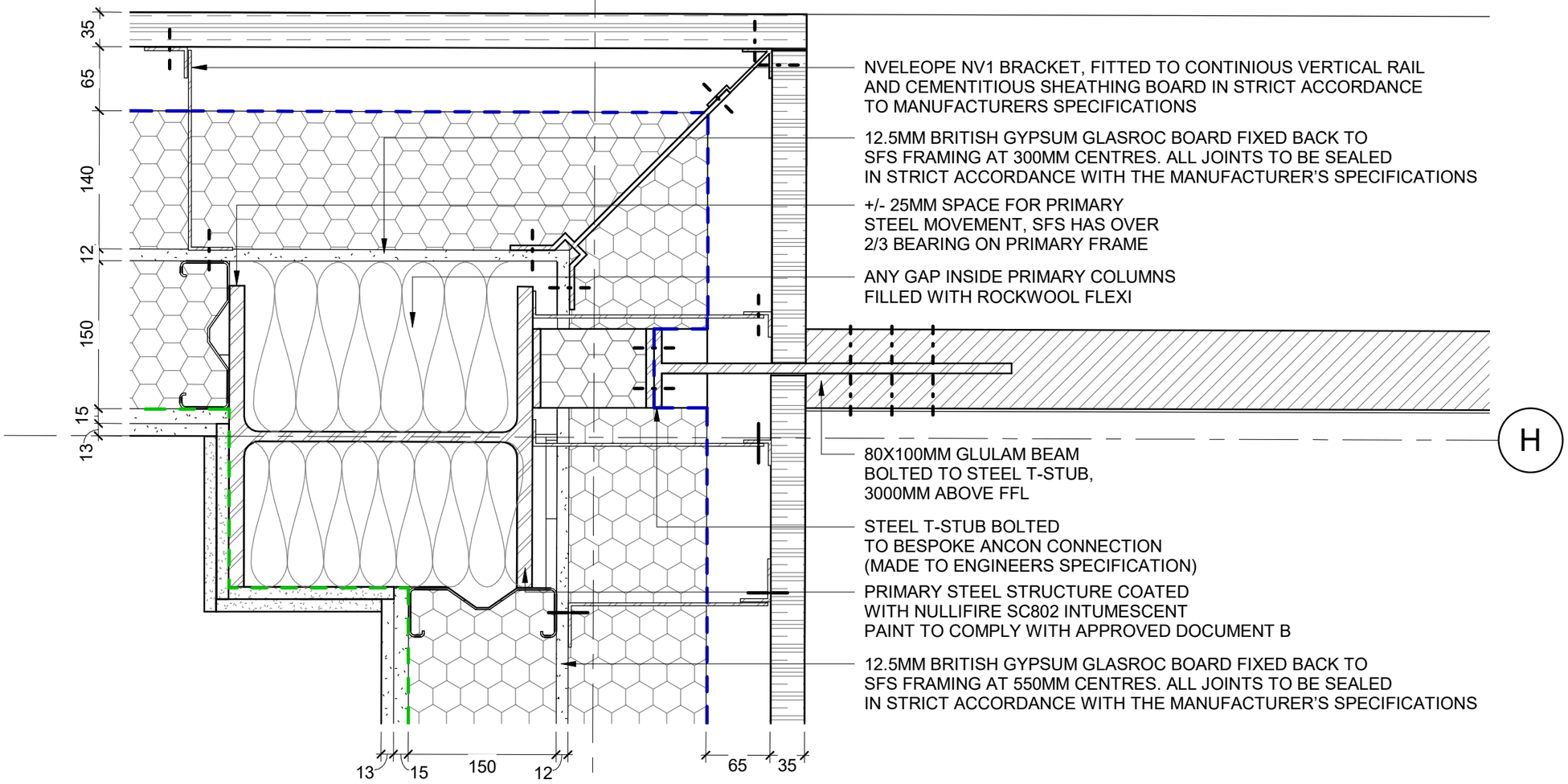


Glulam Beam to Wall (Plan)

1 : 5

Project
Friars Point Apartments

Drawing
Glulam Beam to Wall (Plan)

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A3
1 : 5

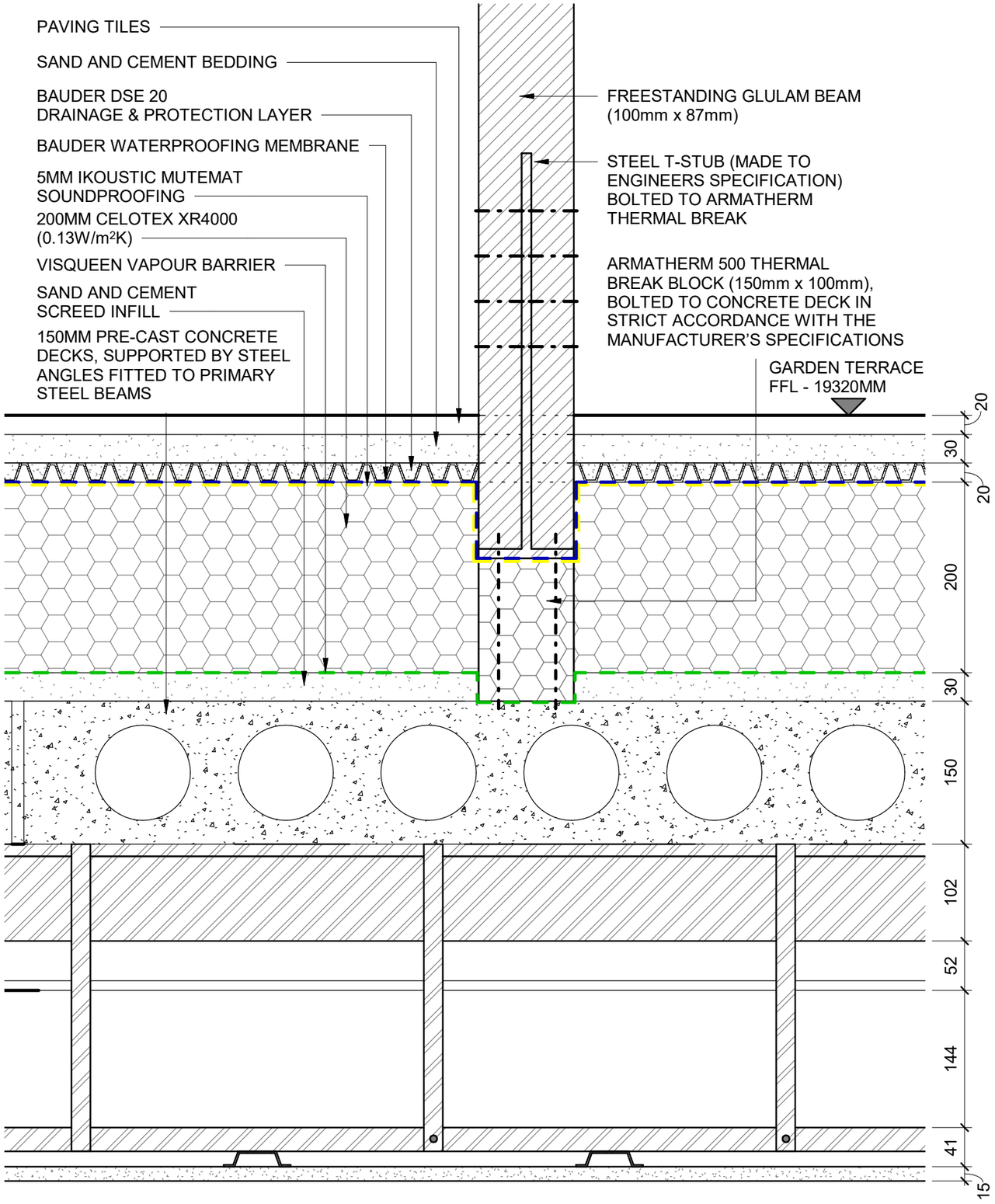
Date
05/09/20

Drawing Number
A107

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd
BSc (Hons) Architectural Design & Technology
Cardiff School of Art and Design | Llandaff Campus

Print Date: 20/05/2020 09:50:06

A3



Glulam Column Connection Detail

1 : 5

Print Date: 20/05/2020 09:50:06

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Project
Friars Point Apartments

Drawing
Glulam Column Connection Detail

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A3
1 : 5

Date
05/09/20

Drawing Number
A108

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd

BSc (Hons) Architectural Design & Technology

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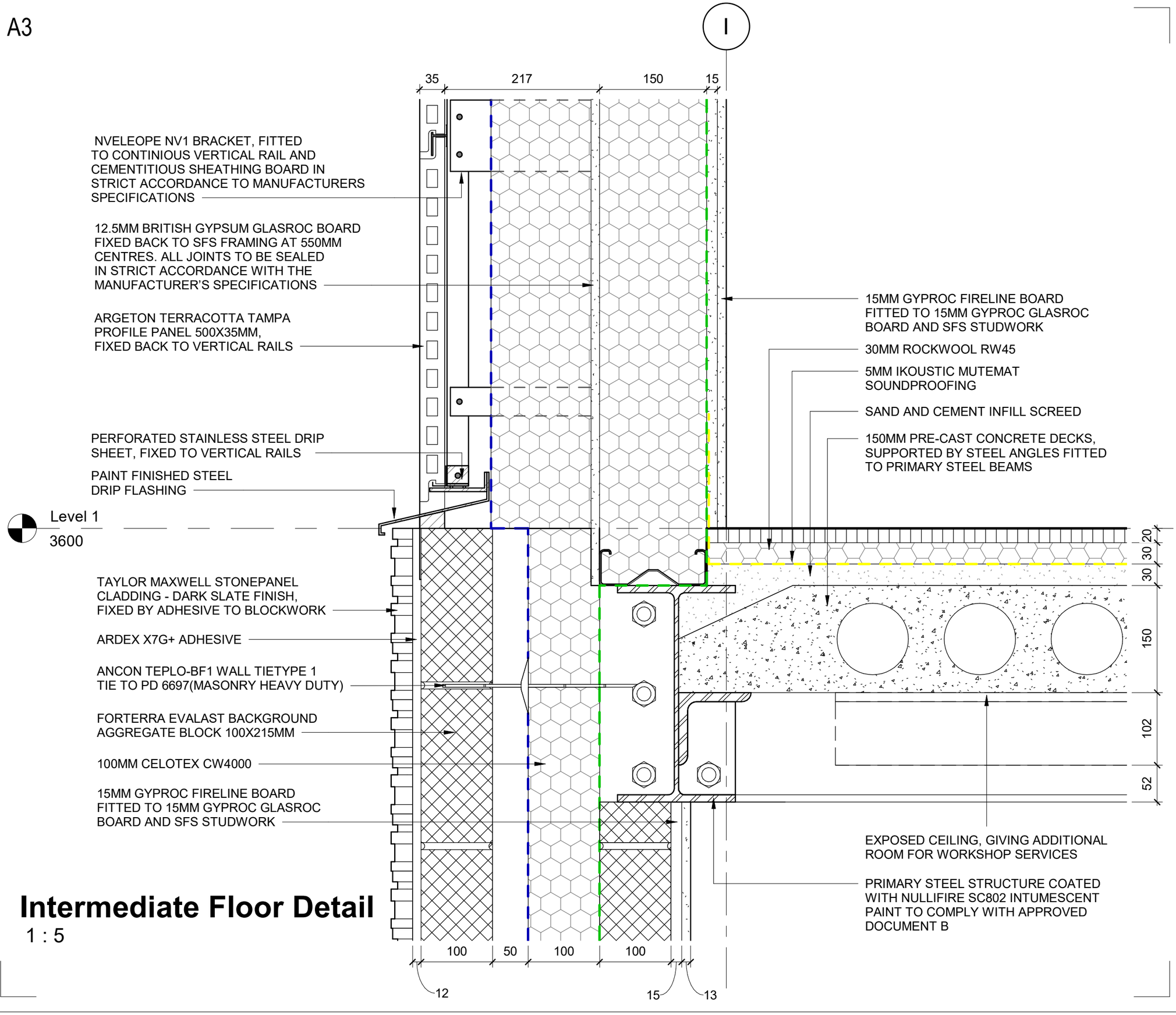
A3



Intermediate Floor Detail

1 : 5

Print Date: 20/05/2020 09:50:06

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Project
Friars Point Apartments

Drawing
Intermediate Floor Detail

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A3
1 : 5

Date
05/09/20

Drawing Number
A109

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd

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A3

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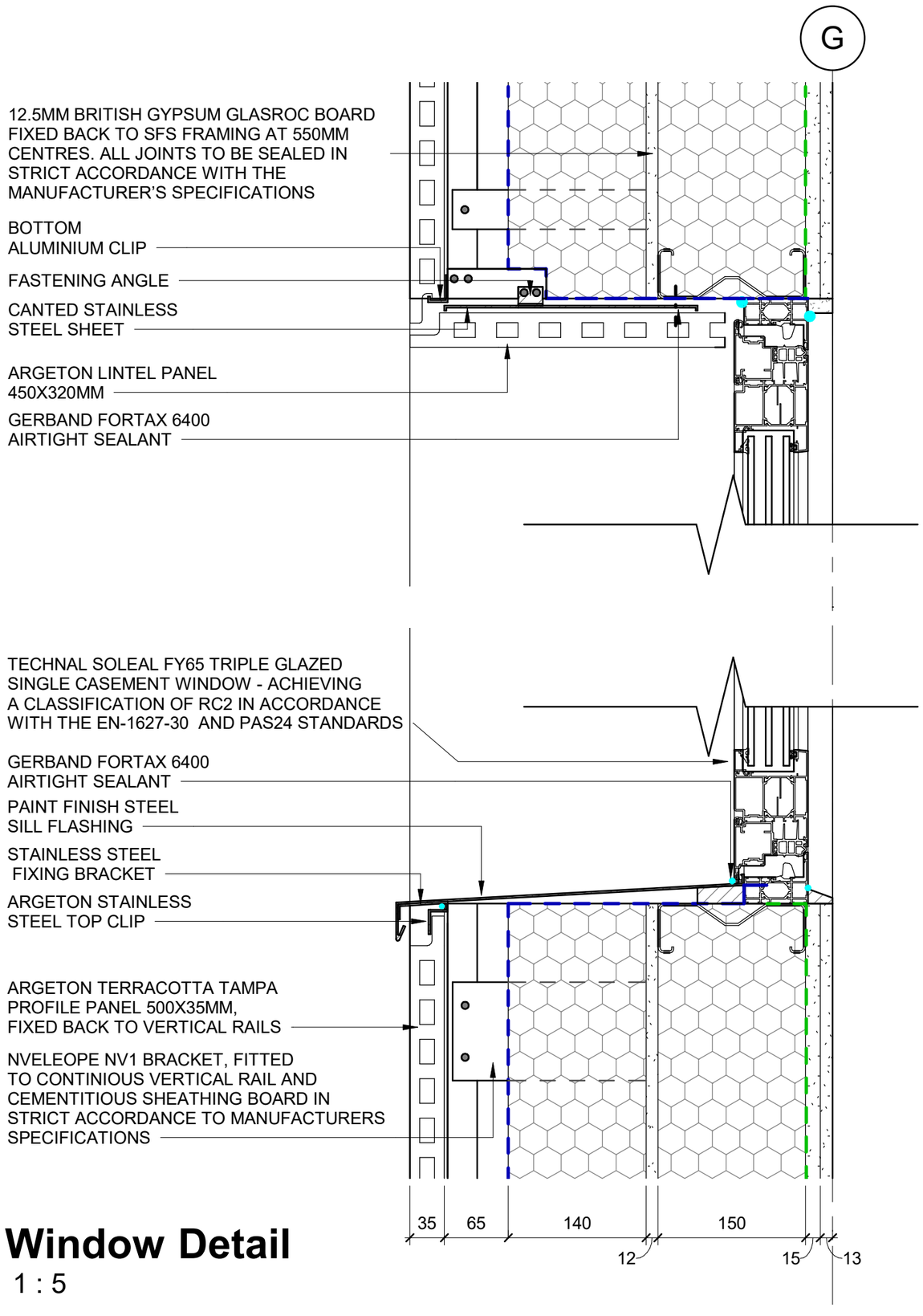

Window Detail

1 : 5

Print Date: 20/05/2020 09:50:07

Project
Friars Point Apartments

Drawing
Window Detail

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A3
1 : 5

Date
05/09/20

Drawing Number
A111

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd
BSc (Hons) Architectural Design & Technology
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A2

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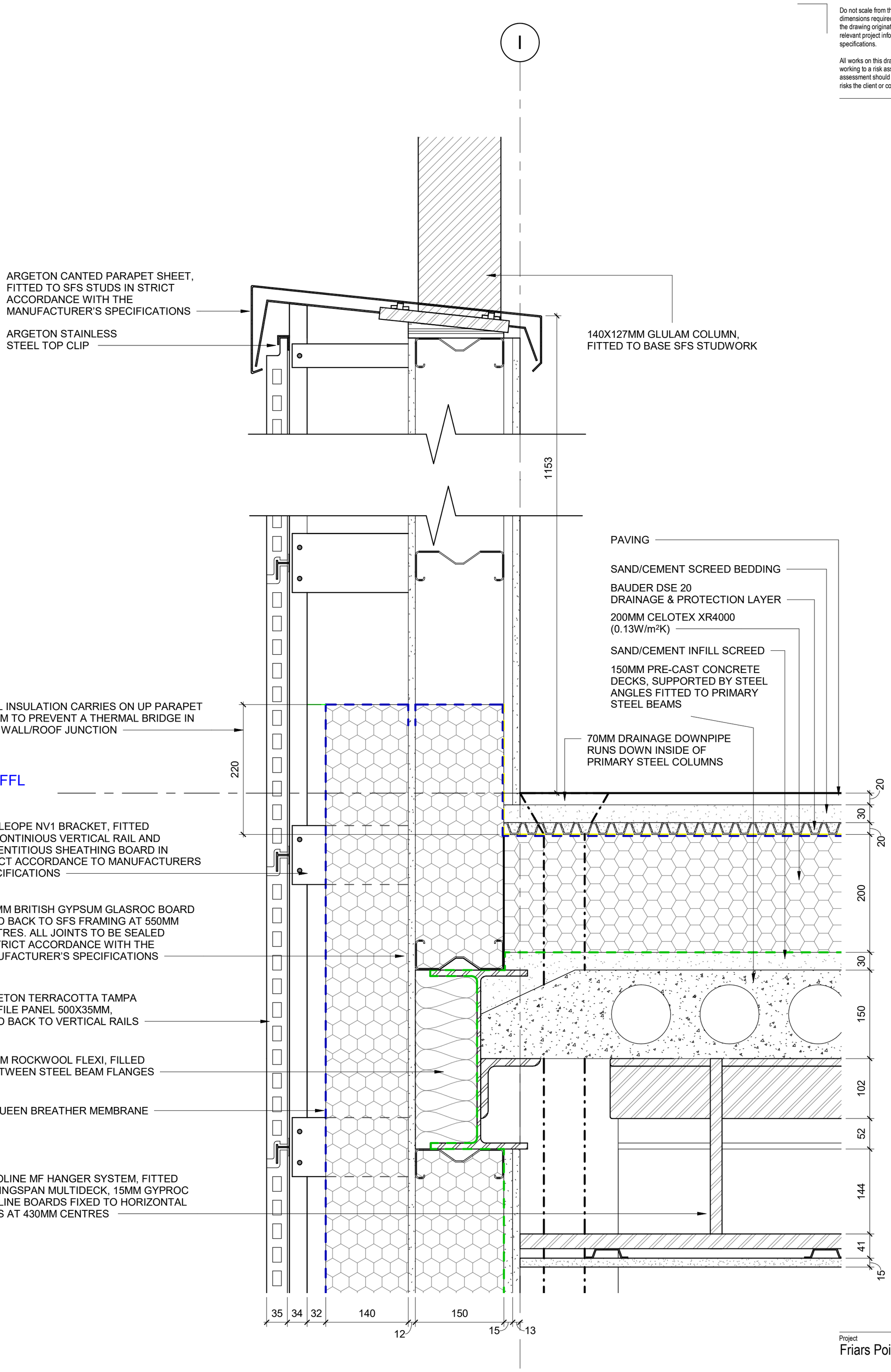

Parapet/Terrace Detail

1 : 5

Project
Friars Point Apartments

Drawing
Parapet/Terrace Detail

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A2
1 : 5

Date
05/09/20

Drawing Number
A110

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd

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Print Date:: 20/05/2020 09:52:13

A2

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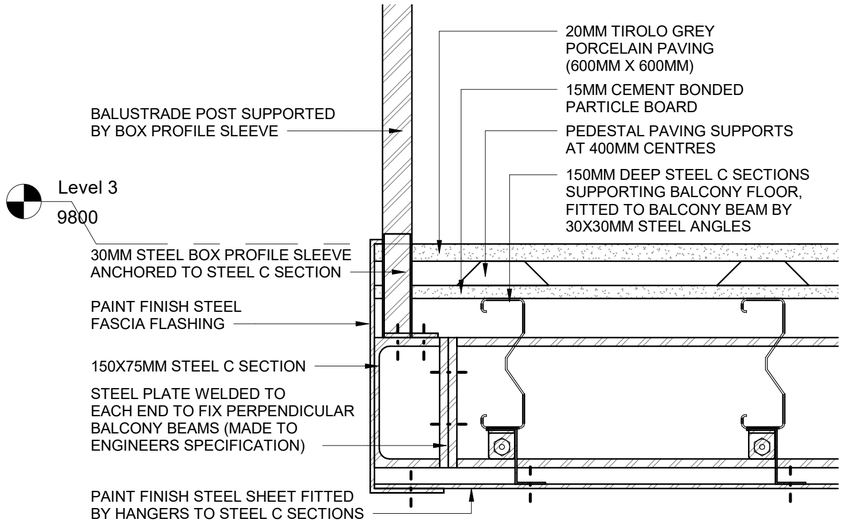
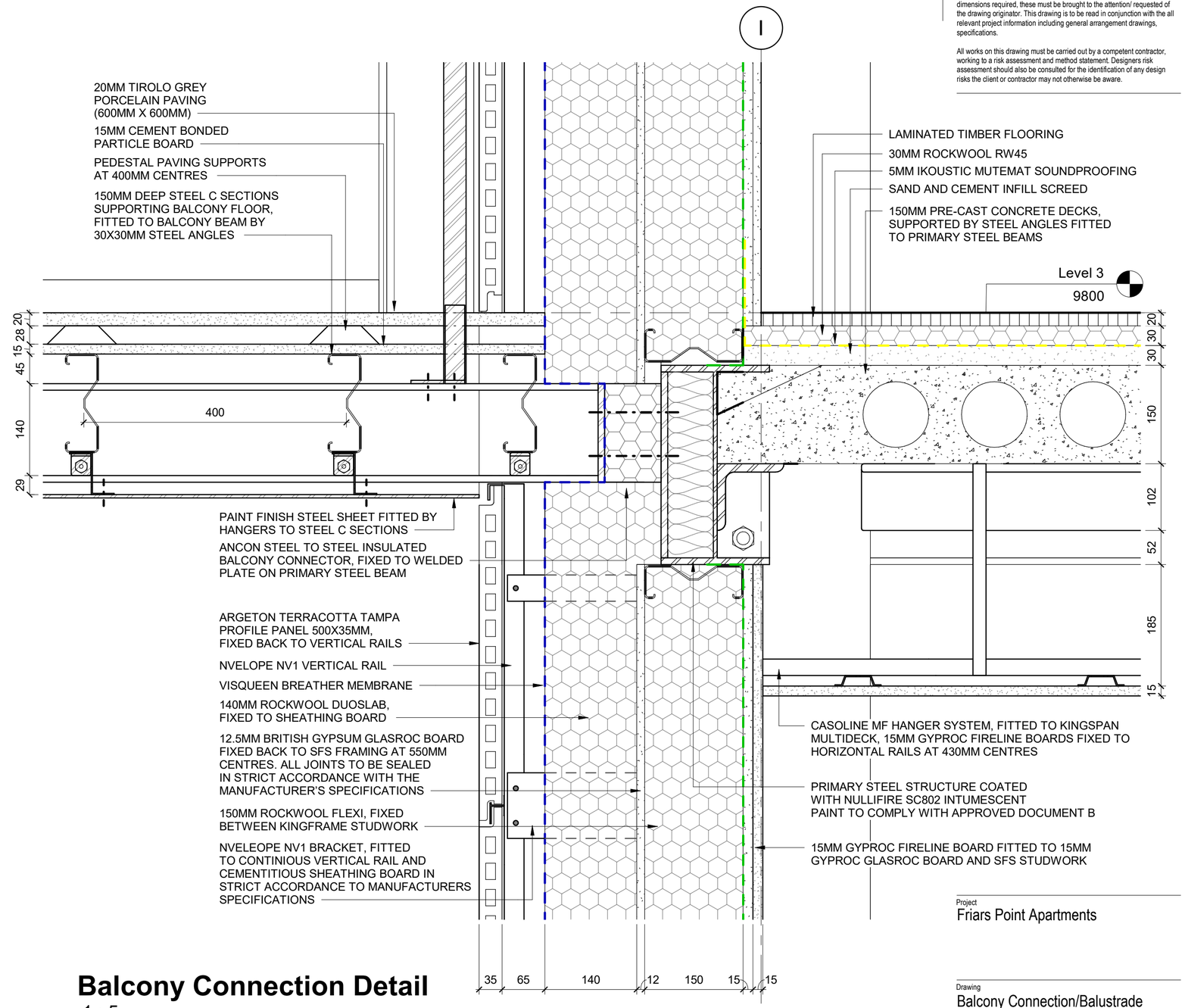


Balustrade Fixing Detail

1 : 5



Balcony Connection Detail

1 : 5

Project
Friars Point Apartments

Drawing
Balcony Connection/Balustrade Fixing

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A2
1 : 5

Date
05/09/20

Drawing Number
A112

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd
BSc (Hons) Architectural Design & Technology
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Print Date: 20/05/2020 09:51:23

A2

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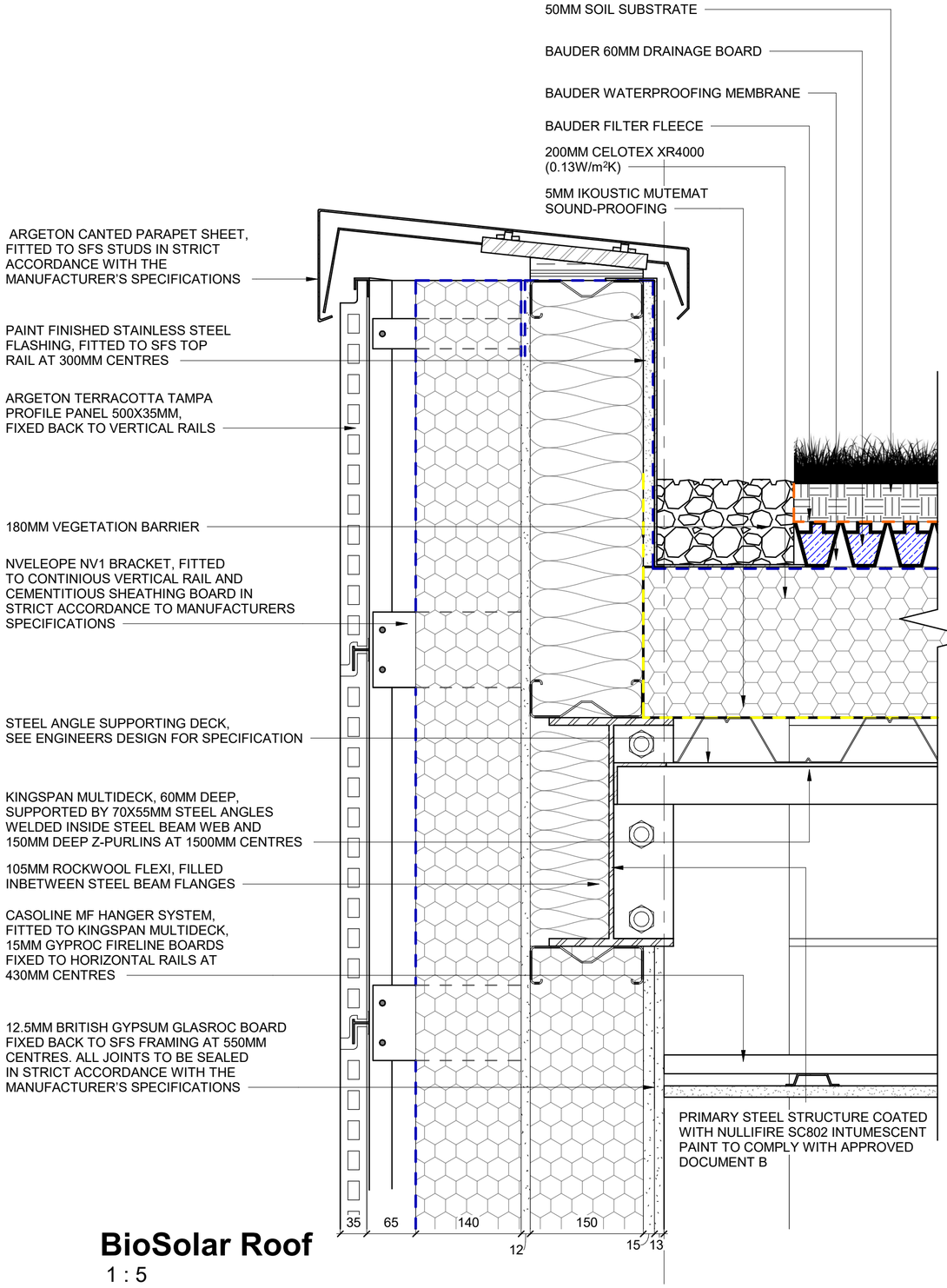
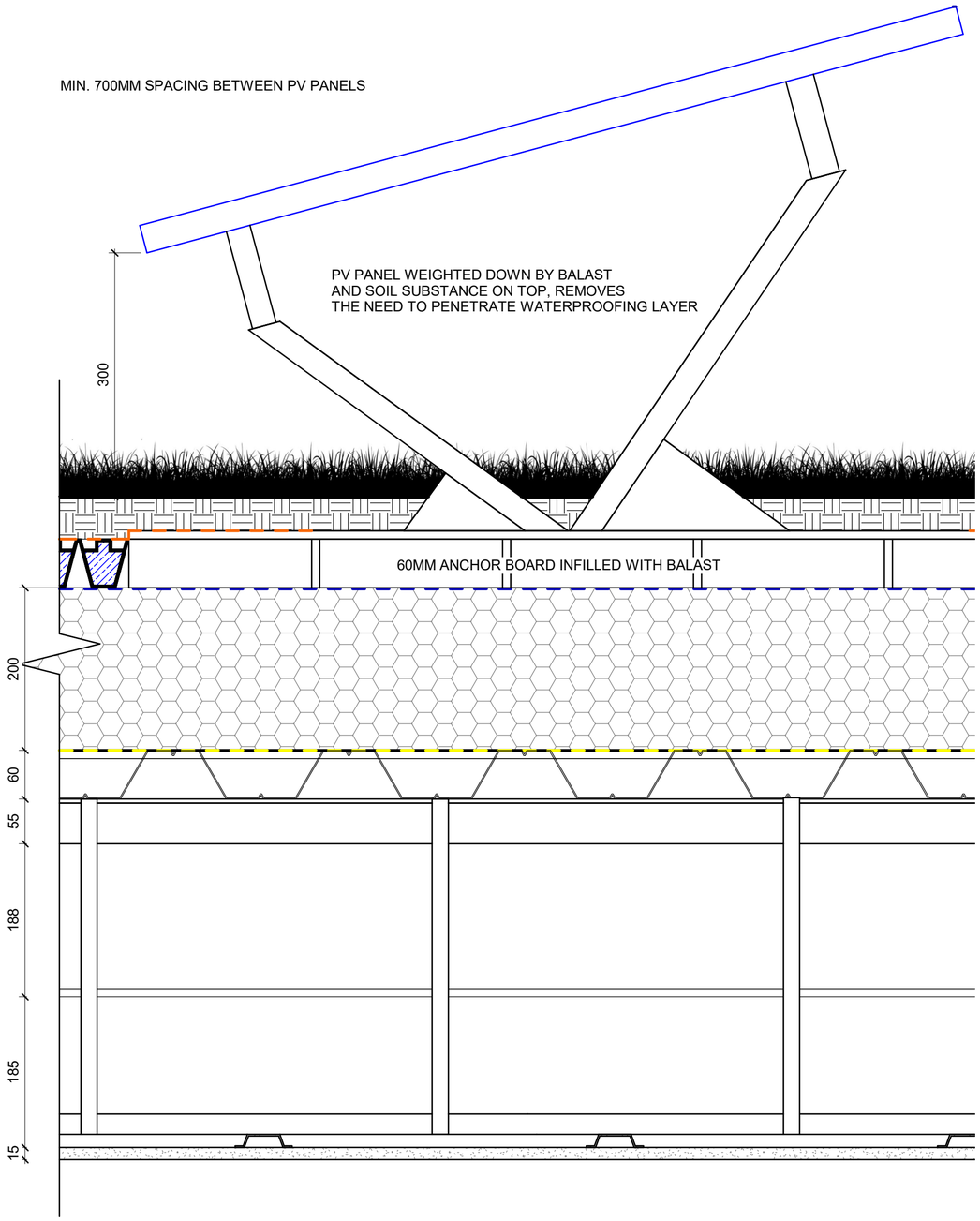


BioSolar Roof
1 : 5



Project
Friars Point Apartments

Drawing
BioSolar Roof

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A2
1 : 5

Date
05/09/20

Drawing Number
A113

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd

BSc (Hons) Architectural Design & Technology

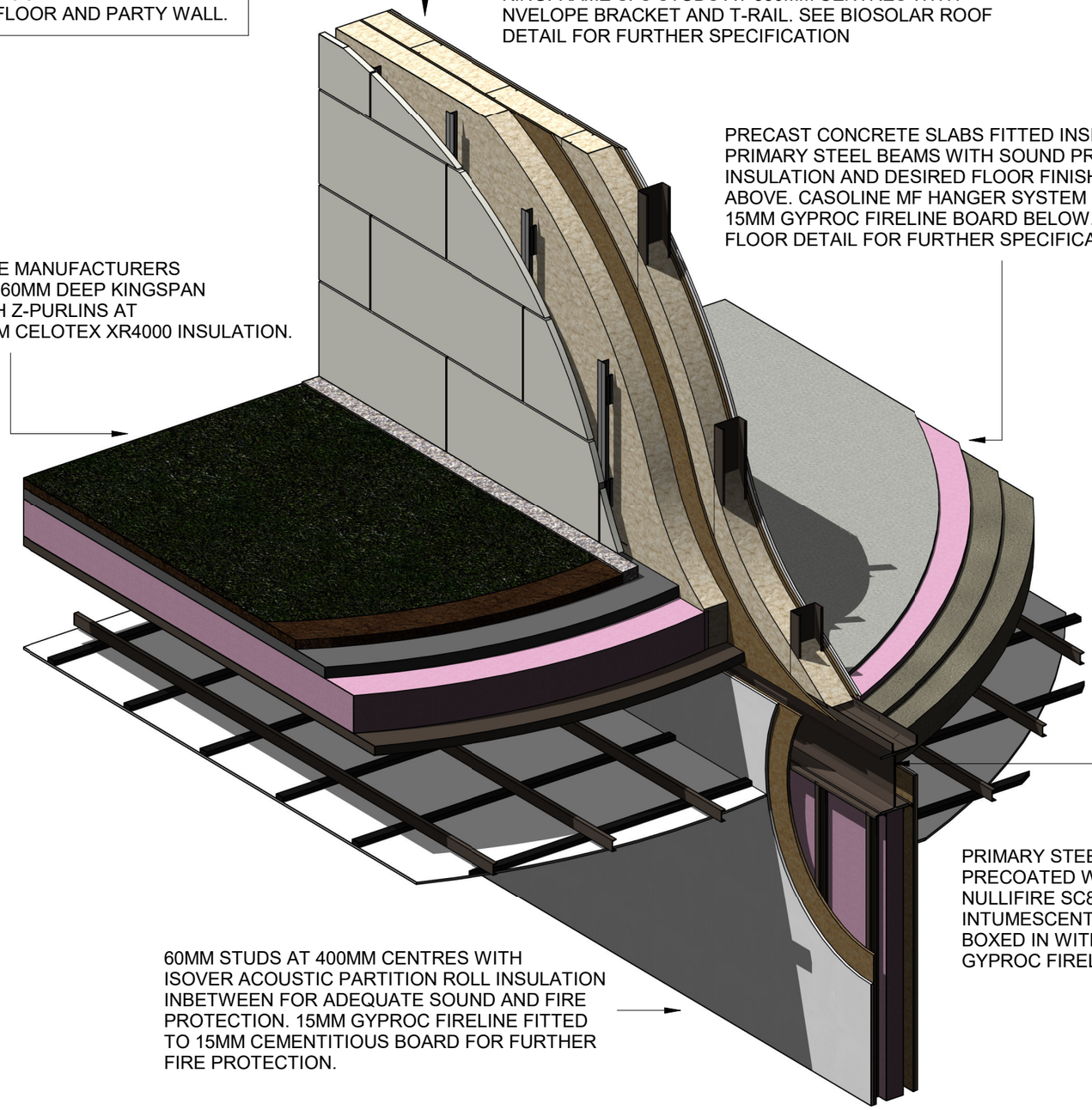
Cardiff School of Art and Design | Llandaff Campus

Print Date: 20/05/2020 09:51:24

A3

3D WALL/ROOF/FLOOR DETAIL 1 : 25

3D DETAIL SHOWING THE RELATIONSHIP BETWEEN THE TERRACOTTA PANEL WALL AND BIOSOLAR ROOF AND THE INTERMEDIATE FLOOR AND PARTY WALL.



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Project
Friars Point Apartments

Drawing
3D Detail

Student Name, Number & Year
Dafydd Morgan, ST20119338

Scale @ A3

Date
05/13/20

Drawing Number
A110

Cardiff Metropolitan University | Prifysgol Metropolitan Caerdydd
BSc (Hons) Architectural Design & Technology
Cardiff School of Art and Design | Llandaff Campus

Print Date: 20/05/2020 10:00:31