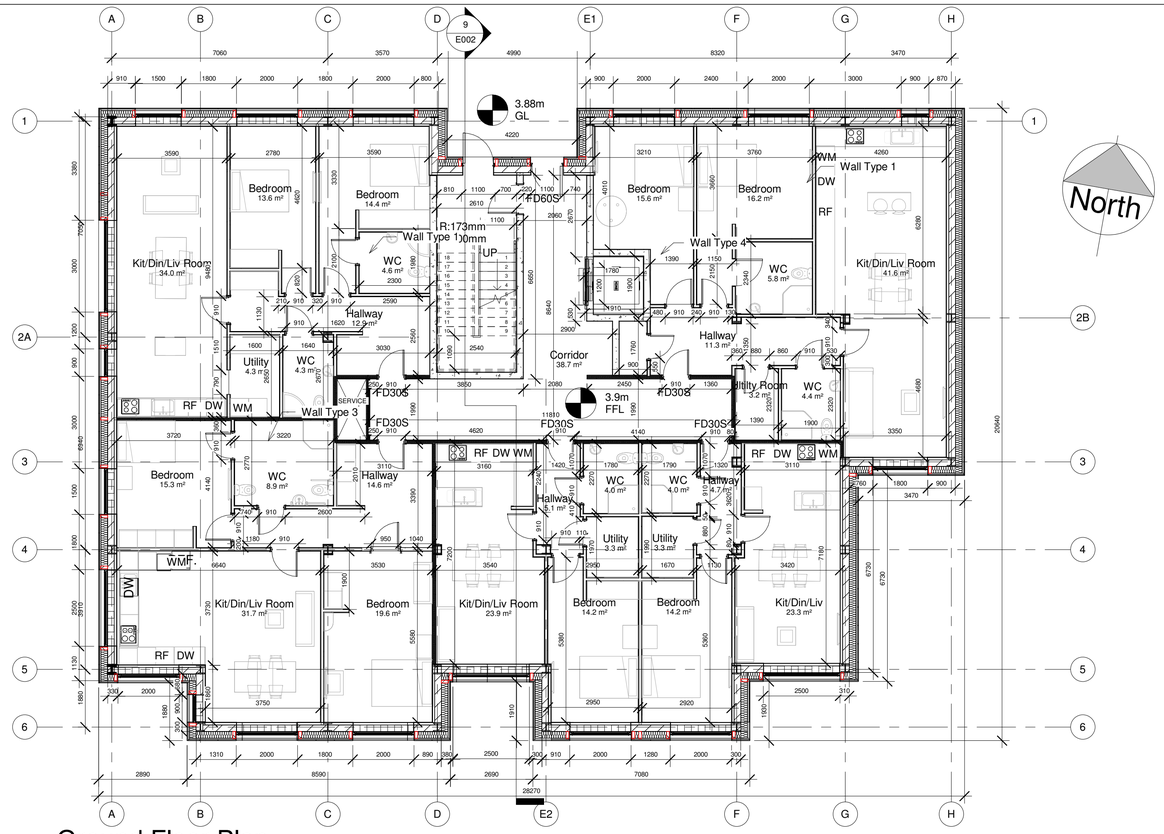
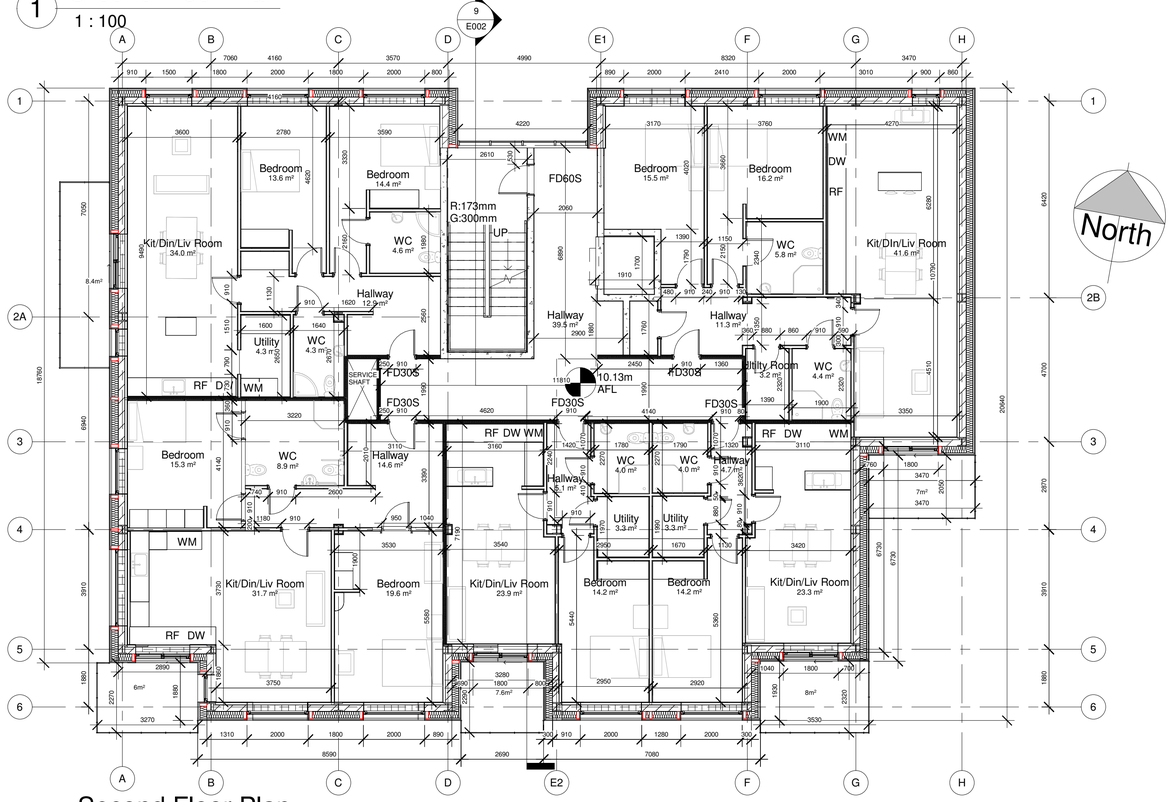


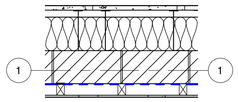
1 Ground Floor Plan
1 : 100



2 Second Floor Plan
1 : 100

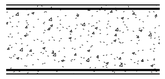
Wall Types

Wall Type 1: External Stone Cladding Wall
12.5mm Gyproc Gypsum Plasterboard
75x50mm Timber Batten Service Void
Passive Purple VCL
220mm Rockwool Rainscreen Duo Slab Flexible Insulation With Seams Taped With Rockwool Firepro AluTape
Hilti Eurofox Bracket MFT 220
Hilti Horizontal Profile
Hilti Vertical T Profile
Hilti MFT-HP Hanger MFT H RL9
30mmTaylor Maxwell Strata Jura Limestone Rainscreen Cladding 600x1200



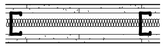
Scale 1:20

Wall Type 2: Precast Concrete Walls RE60
10mm Gyproc Bonding Coat Plaster
200mm Reinforced Concrete
10mm Gyproc Bonding Coat Plaster



Scale 1:10

Wall Type 3: Seperating Wall(GypWall Extreme X606A007) RE60
12.5mm Gyproc Rigidur With 2mm Gyproc Skimcoat plaster
15mm Gyproc SoundBloc With Staggerd Seams
Gypframe 70A50 AcouStuds @ 600c/c On Gypframe 72DC60 Deep Floor & Ceiling Channel
25mm Isovar Acoustic Roll Between Steel Stud Cavity Fixed With Lengths of Gypframe GA1 Angle
15mm Gyproc SoundBloc With Staggerd Seams
12.5mm Gyproc Rigidur With 2mm Gyproc Skimcoat plaster

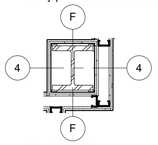


Scale 1:10

Wall Type 4: Party Wall (GypWall Extreme X606A006)RE60
12.5mm Gyproc Rigidur With 2mm Gyproc Skimcoat plaster
12.5mm Gyproc SoundBloc With Staggerd Seams
Gypframe 70A50 AcouStuds @ 600c/c On Gypframe 72DC60 Deep Floor & Ceiling Channel
12.5mm Gyproc SoundBloc With Staggerd Seams
12.5mm Gyproc Rigidur With 2mm Gyproc Skimcoat plaster

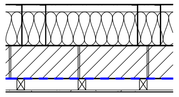
Scale 1:10

Steel Column Fire Protection (Universal Column 305mm x 305mm)
Gyproc Encase System
Guproc Gypframe GL1 Lining Channel
Gypframe GL1 Lining Channel
x2 Gyrpoc FireLine Plasterboards



Scale 1:20

Wall Type: Aluminium Cladding
12.5mm Gyproc Gypsum Plasterboard
50x50mm Timber Batten Service Void
Passive Purple VCL
220mm Rockwool Rainscreen Duo Slab Flexible Insulation With Seams Taped With Rockwool Firepro AluTape
Hilti Eurofox Bracket MFT 220
Hilti Horizontal Profile
Hilti Vertical T Profile
Hilti MFT-HP Hanger MFT H RL9
4mm Alpolic A1 Aluminium Composite Material Rainscreen Cladding with Powder Coated Finish



Scale 1:20

Windows
TRC Alu-Clad Tilt and Turn Over Windows Xmm x 2500mm Installed per Manufacturers Specifications
Lower Section Unopenable
U-Value : 0.8 - 1.3 W/m²k
G-Value : 0.6

Entrance / Exit Door
Carlson Alu-Clad Triple Glazed Door 1100mm x 2110mm Installed per Manufacturers Specifications
U-Value:1.4 W/m²k
G-Value:0.75

External Sliding Door
Reynaers Master Patio Triple Glazed Alu-Clad Sliding Door 2000mm x 2100mm Installed per Manufacturers Specifications
U-Value: 1.3 W/m²k
G-Value: 0.8

Internal Doors(FD30S)
Deanta HP18 Oak Door 910mm x 2110mm Installed per Manufacturers Specifications

Internal Doors(FD60S)
Doras GC06 FD60s Fire Door 1010mm x 2110mm Installed per Manufacturers Specifications

Lift
Kone MonoSpace 300 DX
Car Size 1400 mm x 1600 mm

Stairs
FloodPrecast Concrete Stairs

Firestop
Rockwool SP Firestop OSCB placed around wondow and door openings aswell as seperating walls

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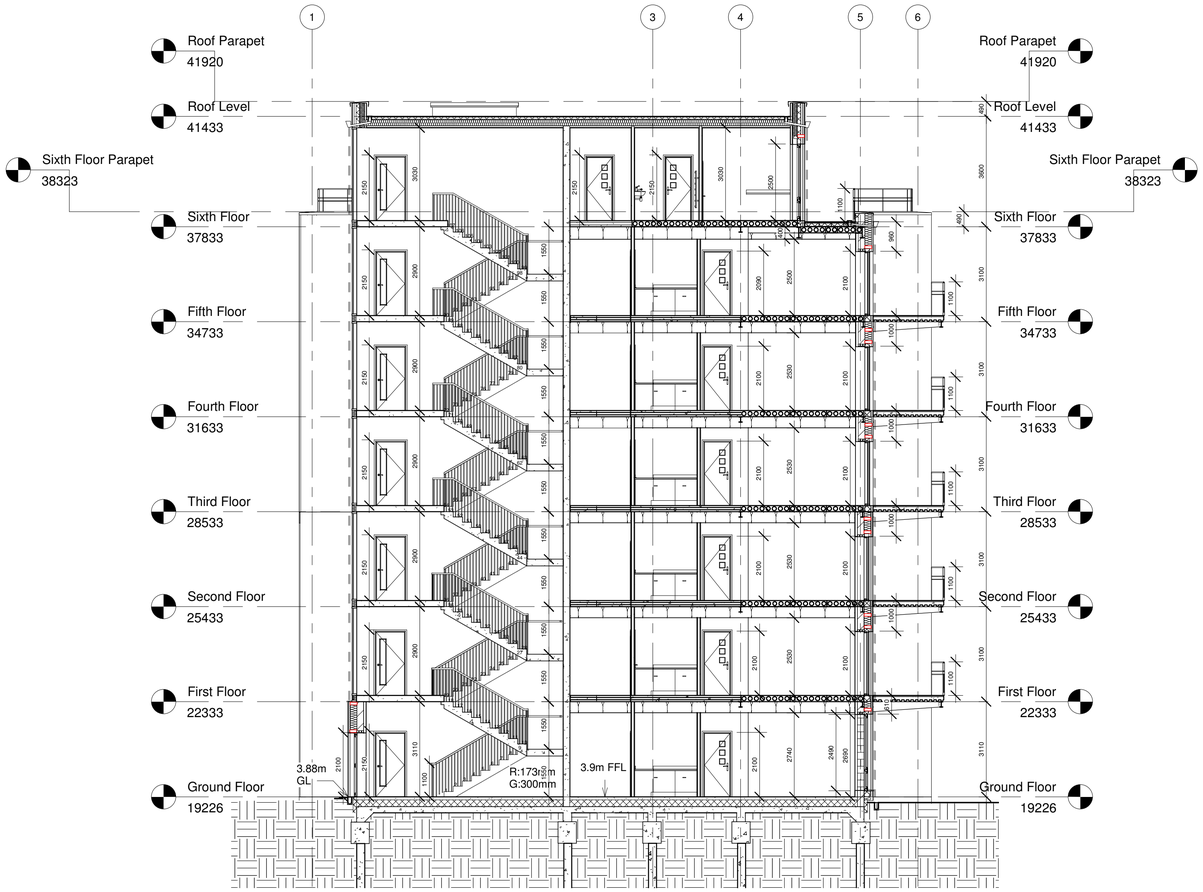
No.	Description	Date

Eoghan Horgan Construction Drawings

Ground and Second Floor Plan

Project number	004
Date	06/05/22
Drawn by	Kelvin Higgins
Checked by	Eoghan Horgan
E001	
Scale	As indicated

06/05/2022 18:08:58



9 Construction Cross Section
1 : 100

Wall Type 1: External Stone Cladding Wall
12.5mm Gyproc Gypsum Plasterboard
75x50mm Timber Batten Service Void
Passive Purple VCL
220mm Rockwool Rainscreen Duo Slab Flexible Insulation With Seams Taped With Rockwool Firepro AluTape
Hilti Eurofox Bracket MFT 220
Hilti Horizontal Profile
Hilti Vertical T Profile
Hilti MFT-HP Hanger MFT H RL9
30mmTaylor Maxwell Strata Jura Limestone Rainscreen Cladding 600x1200

Wall Type 2: Aluminium Cladding
12.5mm Gyproc Gypsum Plasterboard
50x50mm Timber Batten Service Void
Passive Purple VCL
220mm Rockwool Rainscreen Duo Slab Flexible Insulation With Seams Taped With Rockwool Firepro AluTape
Hilti Eurofox Bracket MFT 220
Hilti Horizontal Profile
Hilti Vertical T Profile
Hilti MFT-HP Hanger MFT H RL9
4mm Alpolic A1 Aluminium Composite Material Rainscreen Cladding with Powder Coated Finish

Wall Type 3: Timber Wall Build Up
12.5mm Gyproc Wallboard
50mm Service Cavity
18mm Marine OSB
140mm Rockwool Timber Frame Slab Flexible Insulation Between 140mm x 44mm Timber Stud
18mm OSB External Sheathing
100mm Rockwool Rainscreen Duo-Slab Flexible Insulation With Seams Taped With Rockwool Firepro Alu Tape
Hilti Eurofox Bracket MFT 110
Hilti VT-1 L Wood Hanger
50mm x 50mm Treated Softwood Timbe Battens With Zero Flame Fire Retardant
22mm Timberland Siberian Larch Shiplap Horizontal Cladding

Wall Type 4: Precast Concrete Walls RE60
10mm Gyproc Bonding Coat Plaster
200mm Reinforced Concrete
10mm Gyproc Bonding Coat Plaster

Wall Type 5: Party Wall (GypWall Extreme X606A006)RE60
12.5mm Gyproc Rigidur With 2mm Gyproc Skimcoat plaster
12.5mm Gyproc SoundBloc With Staggerd Seams
Gypframe 70A50 AcouStuds @ 600c/c On Gypframe 72DC60 Deep Floor & Ceiling Channel
12.5mm Gyproc SoundBloc With Staggerd Seams
12.5mm Gyproc Rigidur With 2mm Gyproc Skimcoat plaster

Ground Floor Build Up
22mm Junckers Nordic Oak Timber Floorboard
100mm Powerflow Concrete Screed
220mm Xtratherm Safe-R Rigid Insulation
150mm Powerflow Concete Pad
Concrete Pile Foundation

Mid Floor Build Up
22mm Junckers Nordic Oak Timber Floorboard
200mm Ducon Hollowcore Slab
Gyproc Casoline MF Drop Ceiling
12.5mm Gyproc Plasterboard

Roof Build Up
Bauder K4E Bitchumen Cap Sheet
Sarnavap S4000E Fully Bonded Roof Membrane
18mm Marine OSB
Softwood Timber Furring Piece 1 :80 Fall
60mm Xtratherm Thin-R Rigid Insulation
18mm Marine OSB
200mm Rock.wool Timber Frame Slab Flexible Insulation
Passive Purple VCL
50mm Service Cavity
50x50mm Softwood Timber Battens Treated With Zero Flame Fire Retardant
12.5mm Gyproc Gypsum Plasterboard

Terrace Build Up
30mm 300x600 Kilkenny Limestone External Paving Flooring With Sawn Finish
Kingspan FDEB_M Raised Floor Pedestal
Xtratherm X-Fall 1 :80 Tapered Insulation 80mm Layer with 35-52mm Tapered Section Above
200mm Ducon Hollowcore Slab

Balcony Build Up
30mm 300x600 Kilkenny Limestone External Paving Flooring With Sawn Finish
20mm Kingspan FDEB_M Raised Floor Pedestal
Tata Steel Comfloor 80 Composite Floor Deck With 130mm Structural Screed
254x102x22 UB Tapered Beam

Windows
TRC Alu-Clad Tilt and Turn Over Windows Xmm x 2500mm Installed per Manufacturers Specifications
U-Value : 0.8 - 1.3 W/m²k
G-Value : 0.6

Entrance / Exit Door
Carlson Alu-Clad Triple Glazed Door 1100mm x 2110mm Installed per Manufacturers Specifications
U-Value:1.4 W/m²k
G-Value:0.75

External Sliding Door
Reynaers Master Patio Triple Glazed Alu-Clad Sliding Door 2000mm x 2100mm Installed per Manufacturers Specifications
U-Value: 1.3 W/m²k
G-Value: 0.8

Internal Doors(FD30S)
Deanta HP18 Oak Door 910mm x 2110mm Installed per Manufacturers Specifications

Internal Doors(FD60S)
Doras GC06 FD60s Fire Door 1010mm x 2110mm Installed per Manufacturers Specifications

Railings
Sligoglass Toughened Glass Guarding 20mmx1100mm With 80mm 316 Stainless Steel Balustrade @ 1200 c/c
Balustrade Fixed to Edge of Composite Deck

Lift
Kone MonoSpace 300 DX

Firestop
Rockwool SP Firestop OSCB placed around wondow and door openings aswell as seperating walls

Stone Lintel
100mm Expamet Reinforced Concrete Lointel

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Address	Address
Phone	Phone
Fax	Fax
e-mail	e-mail

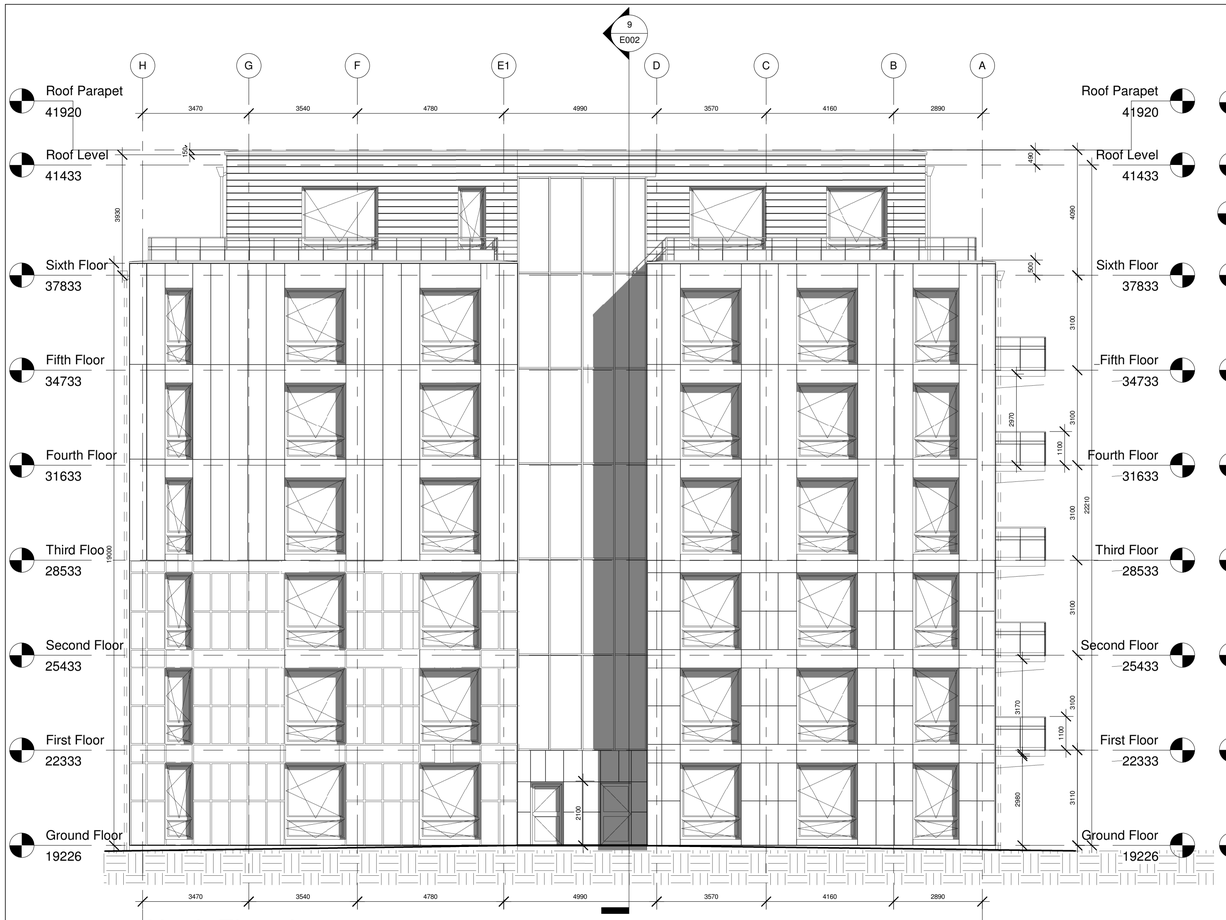
No.	Description	Date

Eoghan Horgan Construction Drawings

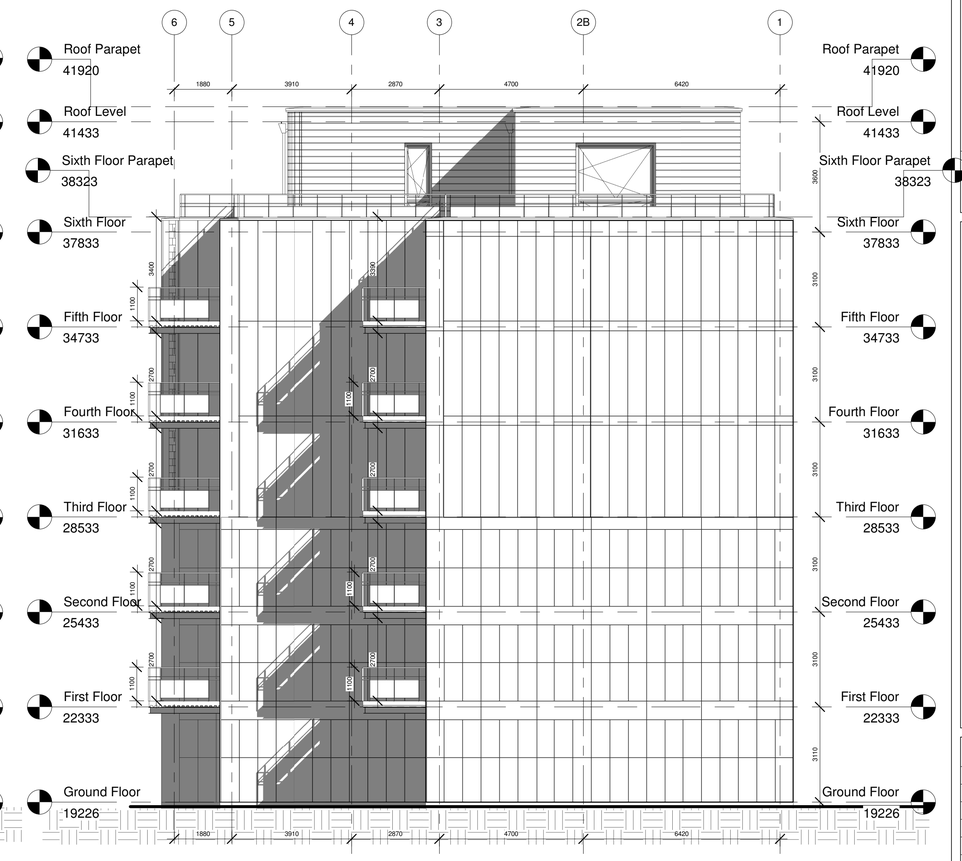
Cross Section

Project number	004
Date	06/05/22
Drawn by	Kelvin Higgins
Checked by	Eoghan Horgan
	E002
Scale	1 : 100

06/05/2022 18:09:35



5 North Elevation
1 : 100



6 East Elevation
1 : 100

1.Windows
TRC Alu-Clad Tilt and Turn Over Windows Xmm x 2500mm With Toughened Glass Lower Section Installed per Manufacturers Specifications
U-Value : 0.8 - 1.3 W/m²k
G-Value : 0.6

2.Entrance / Exit Door
Carlson Alu-Clad Triple Glazed Door 1100mm x 2110mm Installed per Manufacturers Specifications
U-Value:1.4 W/m²k
G-Value:0.75

3.External Sliding Door
Reynaers Master Patio Triple Glazed Alu-Clad Sliding Door 2000mm x 2100mm Installed per Manufacturers Specifications
U-Value: 1.3 W/m²k
G-Value: 0.8

4.Curtain Wall
Reynaers Masterwall Curtain Wall System

5.Stone Cladding (Ground to Third Floor)
30mm Taylor Maxwell Strata Jura Limestone Cladding
600 x 1250 mm

6.Aluminium Cladding (Fourth to Sixth)
4mm 600x3100 Alpolic A1 ACM Rainscreen Cladding with Powder Coated Colour RAL 3031

7.Wood Cladding (Sixth to Roof)
22mm Siberian Larch Shiplap Horizontal Cladding

8.Railings
Sligoglass Toughened Glass Guarding 20mmx1100mm With 80mm 316 Stainless Steel Balustrade @ 1200 c/c

9.Parapet Capping
Gutterclad Anodised Aluminium Capping Colour Matched With Aluminium Cladding

10.Rainwater Hopper
Lindab VATKL Aluminium Rainwater Hopper Paint Matched to Aluminium Cladding

11.Downpipe
Alumasc Aluminium Rainwater 80mm Box Downpipe Matched to Aluminium Cladding

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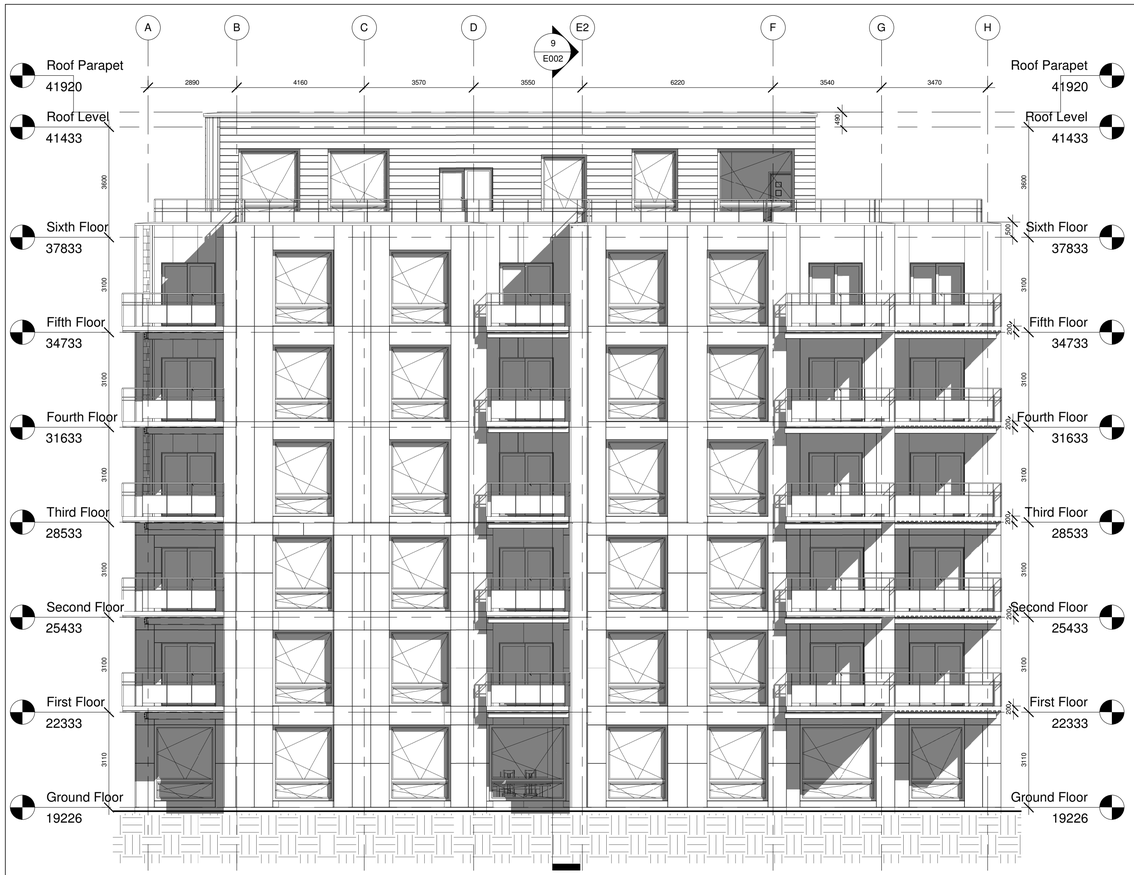
No.	Description	Date

Eoghan Horgan Construction Drawings

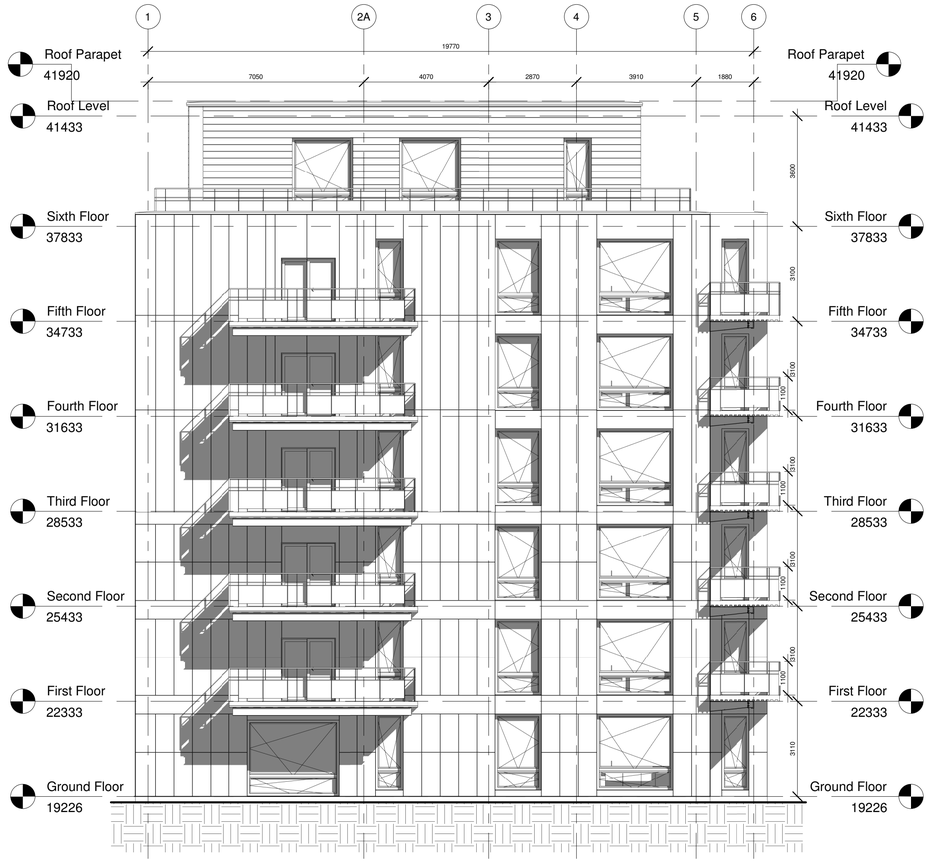
North and East Elevation

Project number	004
Date	06/05/22
Drawn by	Kelvin Higgins
Checked by	Eoghan Horgan
E003	
Scale	1 : 100

06/05/2022 18:11:08



7 South Elevation
1 : 100



8 West Elevation
1 : 100

1.Windows
TRC Alu-Clad Tilt and Turn Over Windows Xmm x 2500mm With Toughened Glass Lower Section Installed per Manufacturers Specifications
U-Value : 0.8 - 1.3 W/m²k
G-Value : 0.6

2.Entrance / Exit Door
Carlson Alu-Clad Triple Glazed Door 1100mm x 2110mm Installed per Manufacturers Specifications
U-Value:1.4 W/m²k
G-Value:0.75

3.External Sliding Door
Reynaers Master Patio Triple Glazed Alu-Clad Sliding Door 2000mm x 2100mm Installed per Manufacturers Specifications
U-Value: 1.3 W/m²k
G-Value: 0.8

4.Curtain Wall
Reynaers Masterwall Curtain Wall System

5.Stone Cladding (Ground to Third Floor)
30mm Taylor Maxwell Strata Jura Limestone Cladding
600 x 1200 mm

6.Aluminium Cladding (Fourth to Sixth)
4mm 914x3100 Alpolic A1 ACM Rainscreen Cladding with Powder Coated Colour RAL 3031

7.Wood Cladding (Sixth to Roof)
22mm Siberian Larch Shiplap Horizontal Cladding

8.Railings
Sligoglass Toughened Glass Guarding 20mmx1100mm With 80mm 316 Stainless Steel Balustrade @ 1200 c/c

9.Parapet Capping
Gutterclad Anodised Aluminium Capping Colour Matched With Aluminium Cladding Ral 3031 fixed back to cladding

10.Rainwater Hopper
Lindab VATKL Aluminium Rainwater Hopper Paint Matched to Aluminium Cladding Ral 3031 fixed back to cladding

11.Downpipe
Alumasc Aluminium Rainwater 80mm Box Downpipe Matched to Aluminium Cladding Ral 3031 fixed back to cladding

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No.	Description	Date

Eoghan Horgan Construction Drawings

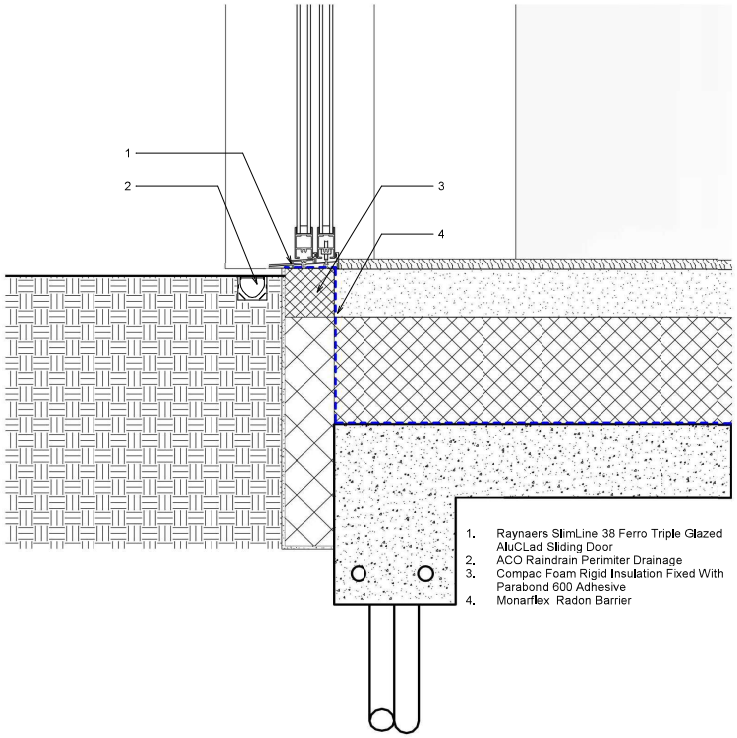
South and West Elevation

Project number	004
Date	06/05/22
Drawn by	Kelvin Higgins
Checked by	Eoghan Horgan

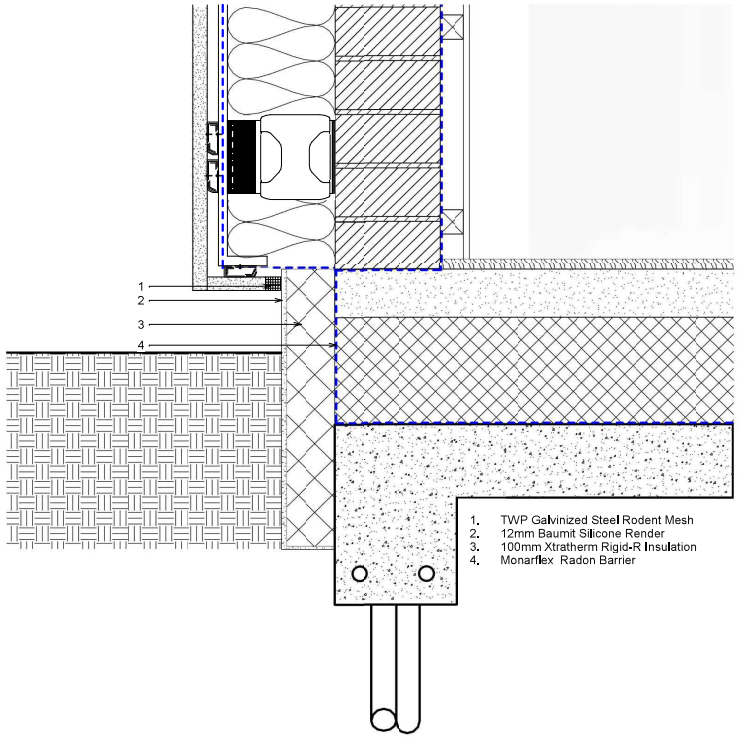
E004

Scale 1 : 100

06/05/2022 18:13:10



1 Main Entrance Detail
1 : 5



2 Typical Wall Detail
1 : 5

Floor Build Up
Junckers Nordic Oak Timber Floorboard
100mm Powerflow Concrete Screed
220mm Xtratherm Safe-R Rigid Insulation
150mm Powerflow Concete Pad
Concrete Pile Foundation

Wall Build Up
12.5mm Gyproc Gypsum Plasterboard
50x50mm Timber Batten Service Void
Passive Purple VCL
215mm Block On Flat
220mm Rockwool Rainscreen Duo Slab Flexible Insulation With Seams Taped With Rockwool Firepro AluTape
Hilti Eurofox Bracket MFT 220
Hilti Horizontal Profile
Hilti Vertical T Profile
Hilti MFT-HP Hanger MFT H RL9
30mm 300x600Taylor Maxwell Strata Jura Limestone Cladding

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No.	Description	Date

Evan Finegan

2D + 3D Details

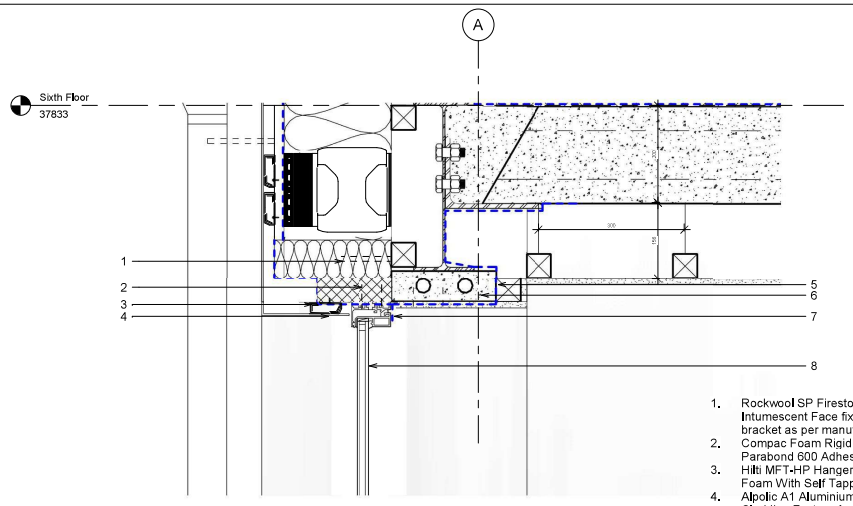
Entrance and Wall Detail

Project number	003
Date	21/03/22
Drawn by	Author
Checked by	Checker

F001

Scale	1 : 5

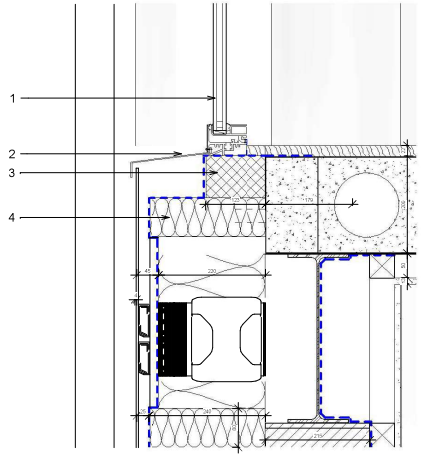
27/03/2022 23:49:28



1 WINDOW HEAD
1 : 5

Wall Build Up
12.5mm Gyproc Gypsum Plasterboard
50x50mm Timber Batten Service Void
Passive Purple VCL
220mm Rockwool Rainscreen Duo Slab Flexible Insulation With Seams Taped With Rockwool Firepro AluTape
Hilti Eurofox Bracket MFT 220
Hilti Horizontal Profile
Hilti Vertical T Profile
Hilti MFT-HP Hanger MFT H RL9
4mm Alpolic A1 Aluminium Composite Material Rainscreen Cladding with Powder Coated Finish

1. Rockwool SP Firestop OSCB Cavity Barrier With Intumescent Face fixed back to block wall with steel bracket as per manufacturers instructions
2. Compac Foam Rigid Insulation Fixed With Parabond 600 Adhesive
3. Hilti MFT-HP Hanger MFT H RL9 fixed to Compac Foam With Self Tapping Screw
4. Alpolic A1 Aluminium Composite Material Rainscreen Cladding Factory Angle Return
5. Passive Purple VCL
6. 100mm Expamet Reinforced Concrete Lintel
7. Winflex Window Sealant Air Tape
8. Raynaers Slimline 38 Aluclad Window



2 Window Sill
1 : 5

1. Raynaers Slimline 38 Aluclad Window
2. Powder Coated Aluminium Cill With RBB Aluminium RAG 2 Cill Piece
3. Compac Foam Rigid Insulation Fixed With Parabond 600 Adhesive
4. Rockwool SP Firestop OSCB Cavity Barrier With Intumescent Face fixed back to block wall with steel bracket as per manufacturers instructions

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Address	Address
Address	Address
Phone	Phone
Fax	Fax
e-mail	e-mail

No.	Description	Date

Evan Finegan

2D + 3D Details

Window Head + Cill

Project number	003
Date	21/03/22
Drawn by	Author
Checked by	Checker

F002

Scale	1 : 5

27/03/2022 23:50:37

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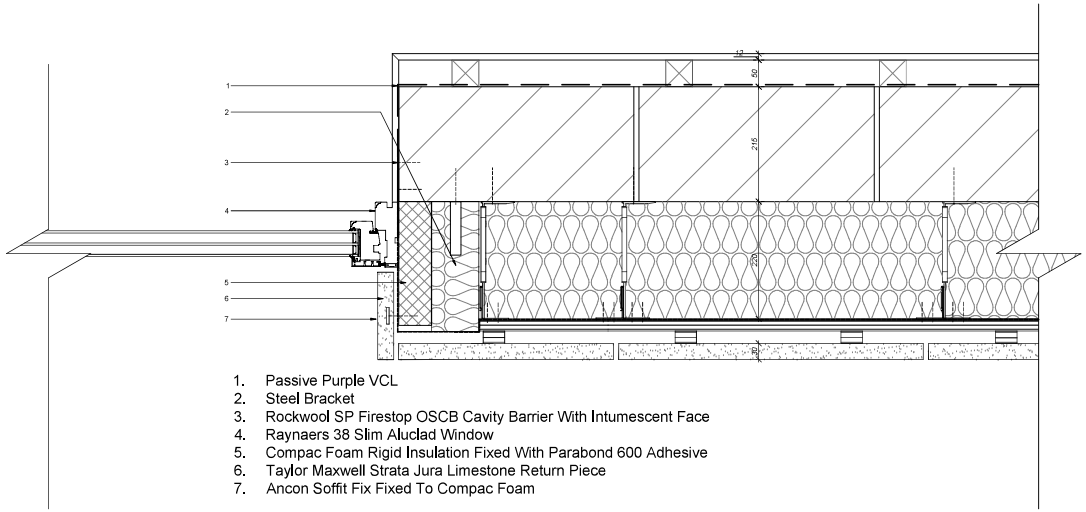

1. Passive Purple VCL
2. Steel Bracket
3. Rockwool SP Firestop OSCB Cavity Barrier With Intumescent Face
4. Raynaers 38 Slim Aluclad Window
5. Compac Foam Rigid Insulation Fixed With Parabond 600 Adhesive
6. Taylor Maxwell Strata Jura Limestone Return Piece
7. Ancon Soffit Fix Fixed To Compac Foam

1 Window Jamb Detail
Scale 1:5

Wall Build Up

12.5mm Gyproc Gyspum Pasterboard
50x50mm Softwood Timber Batten
Passive Purple VCL
215mm Block On Flat
220mm Rockwool Rainscreen Duo-Slab Flexible Insulation With Seams Taped With Rockwool Firepro AluTape
Hilti Eurofox Bracket MFT 220
Hilti Horizontal Profile
Hilti Vertical T Profile#
Hilti MFT-HP hanger MFT H RL9
30mm 300x600 Taylor Maxwell Strata Jura Limestone Cladding

Class			Drawing Title			
STUDIO: MULTI-STOREY FRAMES			Project 3: 2D + 3D Deails			
Client						
MUNSTER TECHNOLOGICAL UNIVERSITY						
Scale	Date	Drawn By	Sheet Size	Student No.	Drawing No.	Revision No.
1:5 @ A1	21.03.22	Kelvin Higgins	A1	R00121607	F003	001/01

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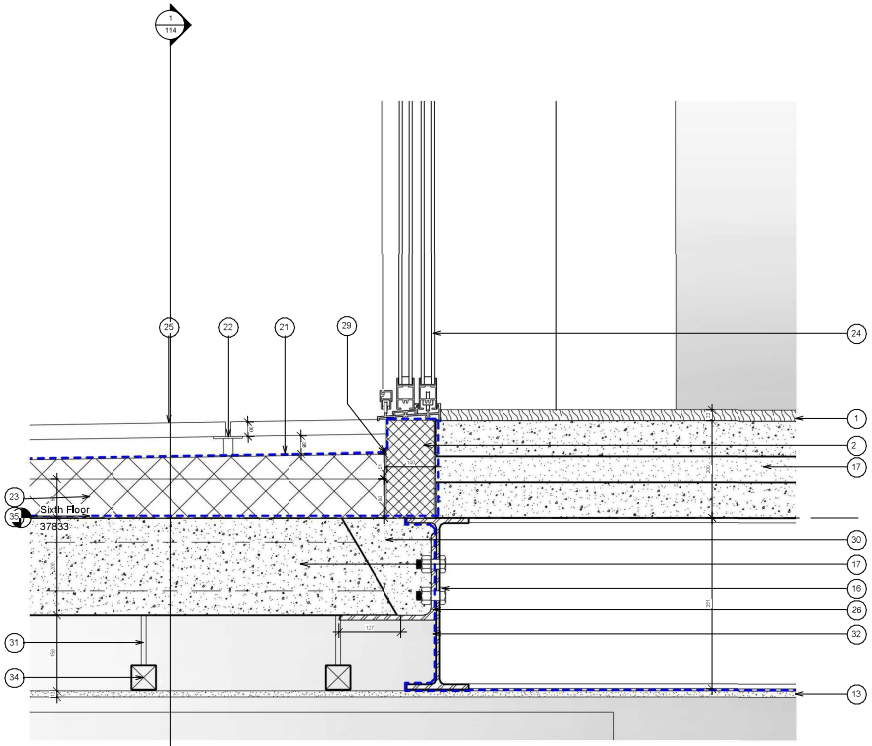
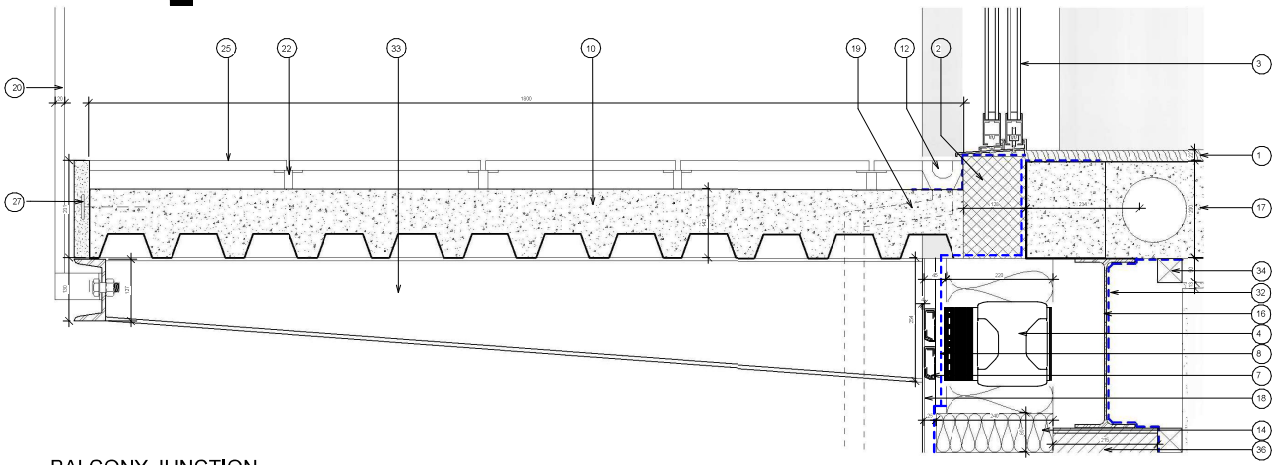
PRODUCED BY AN AUTODESK STUDENT VERSION
PRODUCED BY AN AUTODESK STUDENT VERSION



1 DOOR THRESHOLD
1 : 5



2 BALCONY JUNCTION
1 : 5

LEGEND

1. 22mm Junckers Nordic Oak Timber Floorboard
2. Compac Foam Rigid Insulation Fixed With Parabond 600 Adhesive
3. Norrsken P33T Triple Glazed Aluclad Window
4. Hilti Eurofox Bracket MFT 220
5. Hilti Horizontal Profile
6. Hilti Vertical T Profile
7. Hilti MFT-HP Hanger MFT H RL9
8. 220mm Rockwool Rainscreen Duo-Slab Flexible Insulation With Seams Taped With Rockwool Firepro AluTape
9. Airflow Direction
10. Tata Steel Comfloor 80 Composite Floor Deck With Structural Screed
11. Prime Galvanised Wire Mesh Vent
12. ACO RainDrain
13. 12.5mm Gyproc Gypsum Plasterboard
14. Rockwool SP Firestop OSCB Cavity Barrier With Intumescent Face
15. 356x171x51 Universal Steel Beam applied with Intumescent Paint
16. 356x124x29 Universal Steel Beam applied with Intumescent Paint
17. 200mm Ducon Hollowcore Slab
18. 4mm 914x1800 Alpolic A1 ACM Rainscreen Cladding with Powder Coated Colour: 3016 Coral Red
19. ACO GM X Pipe Downspout With Paint Matched to Cladding
20. Sligoglass Toughened Glass Balustrade Guarding 20mmx1100mm
21. Sika S-Vap 4000 E Sa FR Vapour Barrier Fully Bonded to Tapered Insulation
22. Kingspan FDEB_M Raised Floor Pedestal
23. Xtratherm X-Fall 1:80 Tapered Insulation 80mm Layer with 35-52mm Tapered Section Above
24. Raynaers SlimLine 38 Ferro Triple Glazed AluCLad Sliding Door
25. 30mm 300x600 Kilkenny Limestone External Paving Flooring With Sawn Finish
26. 150mmx150mm 10mm Angle Steel Bolted with M20 Nut and Bolts
27. Ancon Soffit Fixing
28. 18mm Smart Ply OSB
29. Tapered Softwood Timber Firring Piece
30. Concrete Screed Infill
31. Threaded Steel Rod Suspened Ceiling
32. Passive Purple VCL
33. 254x102x22 UB Tapered Beam
34. 50x50 Treated Softwood Timebr Battens
35. Visqueen Vapour Barrier
36. 440x100x215 Block On Flat

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No.	Description	Date

Evan Finegan

2D + 3D Details

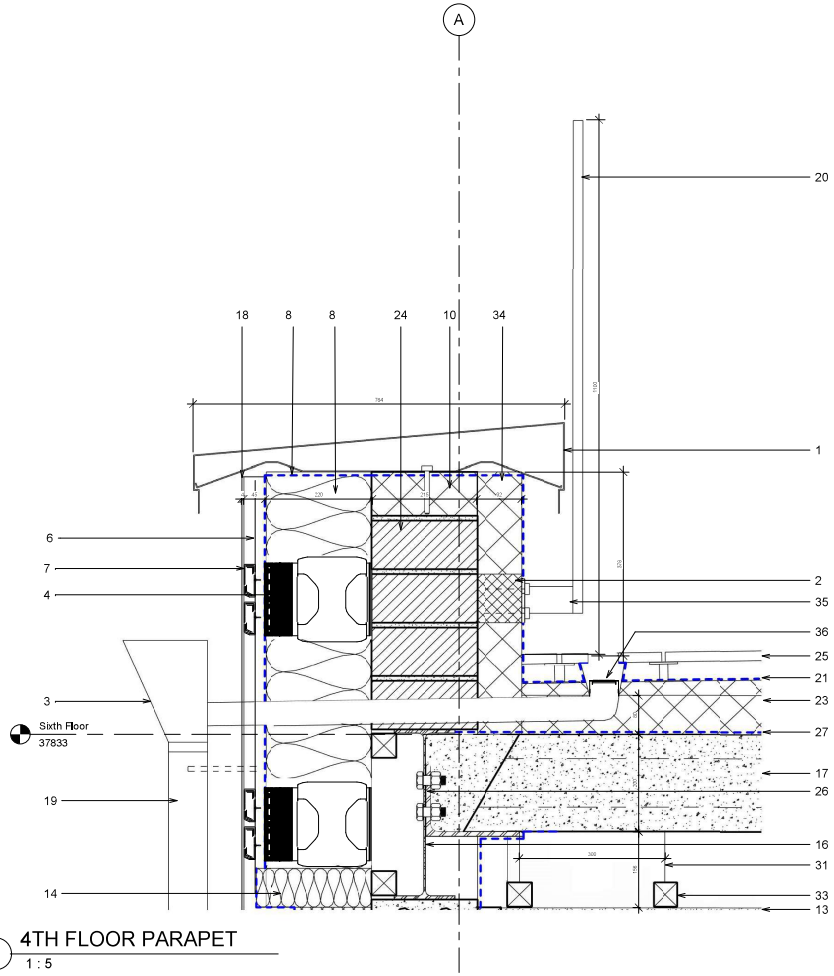
Threshold + Balcony

Project number	003
Date	21/03/22
Drawn by	Author
Checked by	Checker

F004

Scale 1 : 5

28/03/2022 02:23:11



1 4TH FLOOR PARAPET
1 : 5

LEGEND

1. Gutterclad Anodised Aluminium Capping Colour Matched With Cladding
2. Compac Foam Rigid Insulation Fixed With Parabond 600 Adhesive
3. Lindab VATKL Rainwater Hopper
4. Hilti Eurofox Bracket MFT 220
5. Hilti Horizontal Profile
6. Hilti Vertical T Profile
7. Hilti MFT-HP Hanger MFT H RL9
8. 220mm Rockwool Rainscreen Duo-Slab Flexible Insulation With Seams Taped With Rockwool Firepro AluTape
9. Airflow Direction
10. Mannock Aircrete Thermal Block
11. Prime Galvanised Wire Mesh Vent
12. ACO RainDrain
13. 12.5mm Gyproc Gypsum Plasterboard
14. Rockwool SP Firestop OSCB Cavity Barrier With Intumescent Face
15. 356x171x51 Universal Steel Beam applied with Intumescent Paint
16. 356x124x33 Universal Steel Beam applied with Intumescent Paint
17. 200mm Ducon Hollowcore Slab
18. 4mm 914x1800 Alpolic A1 ACM Rainscreen Cladding with Powder Coated Colour: 3016 Coral Red
19. ACO GM X Pipe Downspout With Paint Matched to Cladding
20. Sligoglass Toughened Glass Balustrade Guarding 20mmx1100mm
21. Sika S-Vap 4000 E Sa FR Vapour Barrier Fully Bonded to Tapered Insulation
22. Kingspan FDEB_M Raised Floor Pedestal
23. Xtratherm X-Fall 1:80 Tapered Insulation 80mm Layer with 35-52mm Tapered Section Above
24. 440x100x215 Block On Flat
25. 30mm 300x600 Kilkenny Limestone External Paving Flooring With Sawn Finish
26. 150mmx150mm 10mm Angle Steel Bolted with M20 Nut and Bolts
27. Visqueen Vapour Barrier
28. 18mm Smart Ply OSB
29. Tapered Softwood Timber Firring Piece
30. Concrete Screed Infill
31. Threaded Steel Rod Suspened Ceiling
32. Passive Purple VCL
33. 50x50 Treated Softwood Timber Battens
34. Xtratherm Safe-R Rigid Insulation
35. Stainless Stell Glass Mounting Bracket Bolted To Compac Foam
36. ACO HP Vertical Spigot

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Phone	Phone
Fax	Fax
e-mail	e-mail

No.	Description	Date

Evan Finegan

2D + 3D Details

4TH Floor Parapet

Project number	003
Date	21/03/22
Drawn by	Kelvin Higgins
Checked by	Checker

F005

Scale	1 : 5

27/03/2022 23:55:33

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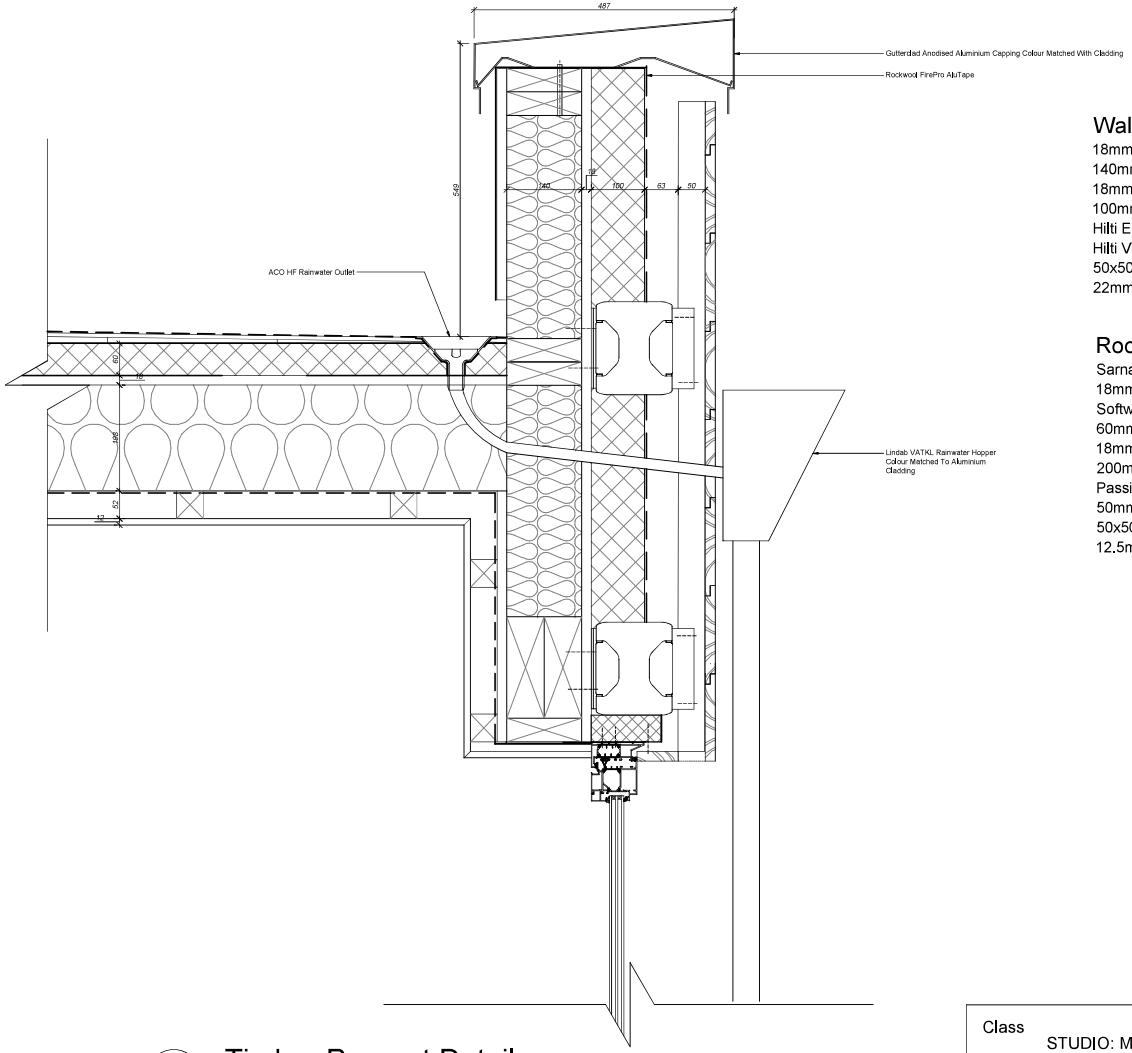

Wall Build Up

18mm Marine OSB
140mm Rockwool Timber Frame Slab Flexible Insulation
18mm OSB External Sheathing
100mm Rockwool Rainscreen Duo-Slab Flexible Insulation With Seams Taped With Rockwool Firepro AluTape
Hilti Eurofox Bracket MFT 110
Hilti VT-1L Wood Hanger
50x50MM Treated Softwood Timbe Battens With Zero Flame Fire Retardant
22mm Timberland Siberian Larch Shiplap Horizontal Cladding

Roof Build Up

Sarnavap S4000E Fully Bonded Roof Membrane
18mm Marine OSB
Softwood Timber Furring Piece 1:80 Fall
60mm Xtratherm Thin-R Rigid Insulation
18mm Marine OSB
200mm Rockwool Timber Frame Slab Flexible Insulation
Passive Purple VCL
50mm Service Cavity
50x50mm Softwood Timber Battens Treated With Zero Flame Fire Retardant
12.5mm Gyproc Gypsum Plasterboard

1 Timber Parapet Detail
Scale 1:5

Class: STUDIO: MULTI-STOREY FRAMES			Drawing Title: Project 3: 2D + 3D Details			
Client: MUNSTER TECHNOLOGICAL UNIVERSITY						
Scale: 1:5 @ A1	Date: 21.03.22	Drawn By: Kelvin Higgins	Sheet Size: A1	Student No.: R00121607	Drawing No.: F007	Revision No.: 001/01

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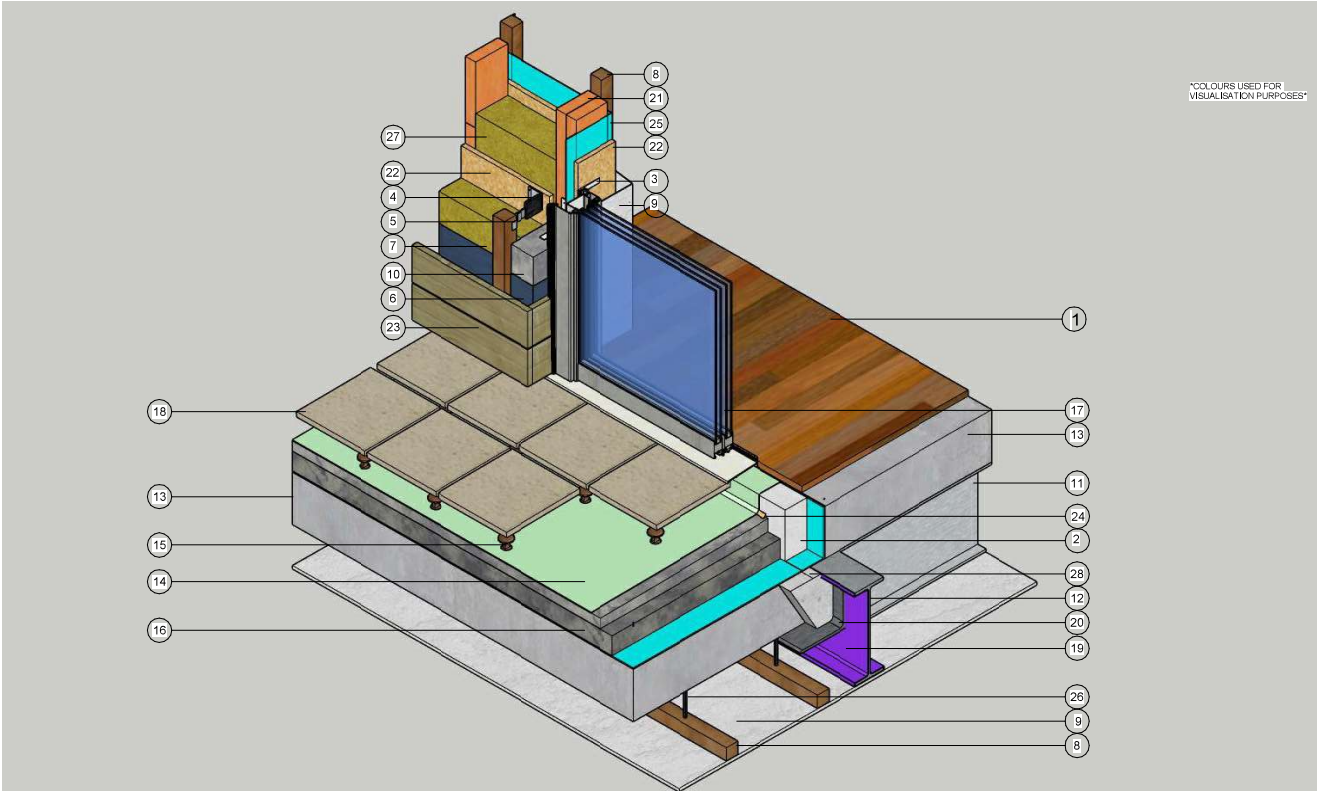

07 DOOR THRESHOLD 3D MODEL
SCALE 1:10

LEGEND

1. 22mm Junckers Nordic Oak Oak Floorboard
2. Compac Foam Rigid Insulation Bonded With Parabond 600
3. Galvanised Steel Door Strapping
4. Hilti Eurofox Bracket MFT 200
5. Hilti VT-1L Wood Hanger
6. Siga Majvest 700 VCL
7. Rockwool Rainscreen Duo-Slab Flexible Insulation Edges Sealed With Rockwool Firepro Alutape
8. 50x50 Treated Softwood Timber Battens
9. 12.5mm Gyproc Gypsum Plasterboard
10. Rockwool SP Firestop OSCB Cavity Barrier With Intumescent Face
11. 356x171x51 Universal Steel Beam applied with Intumescent Paint
12. 254x102x22 Universal Steel Beam applied with Intumescent Paint
13. 200mm Ducon Hollowcore Slab
14. Sika S-Vap 4000 E Sa FR Vapour Barrier Fully Bonded to Tapered Insulation
15. Kingspan FDEB M Raised Floor Pedestal
16. Xtratherm X-Fall 1:80 Tapered Insulation 80mm Layer with 35-54mm Tapered Section Above
17. Raynaers SlimLine 38 Ferro Triple Glazed AluCLad Sliding Door
18. 30mm Kilkenny Limestone External Paving Flooring With Sawn Finish
19. Passive Purple VCL
20. 150mm x 150mm 10mm Angle Steel Bolted with M20 Nut and Bolts
21. 140x44 Treated Softwood Timber Battens at 400c/c With ZeroFlame Fire Retardant Treatment
22. 18mm Smart Ply OSB
23. 22mm Siberian Larch Shiplap Horizontal Cladding
24. Tapered Softwood Timber Firring Piece
25. Dupont Tyvek Firecurb Breather Membrane
26. 10mm Threaded Steel Rod Suspened Ceiling
27. 140mm Rockwool Thermal Timber Frame Slab Flex Insulation
28. Concrete To Cap Off Hollowcore

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Phone	Phone
Fax	Fax
e-mail	e-mail

No.	Description	Date

Evan Finegan

2D + 3D Details

3D Threshold Detail

Project number	003
Date	21/03/22
Drawn by	Kelvin Higgins
Checked by	Checker

F006

Scale

27/03/2022 23:55:57

North East Axonometric

South West Axonometric

MTU

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No.	Description	Date

Eoghan Horgan Construction Drawings

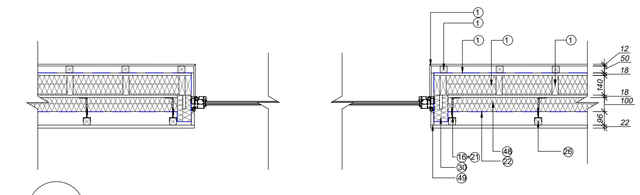
Axonometric Render

Project number	004
Date	06/05/22
Drawn by	Kelvin Higgins
Checked by	Eoghan Horgan

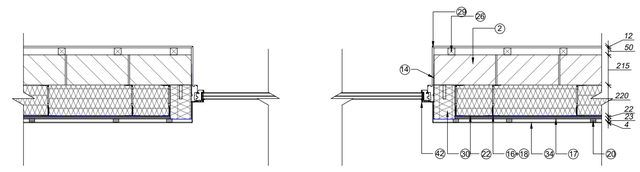
E005

Scale

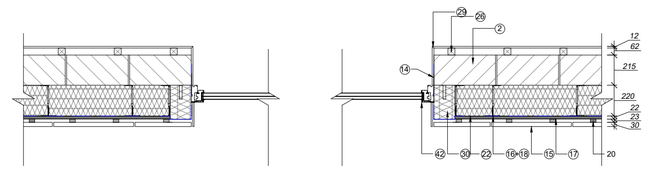
06/05/2022 18:15:02



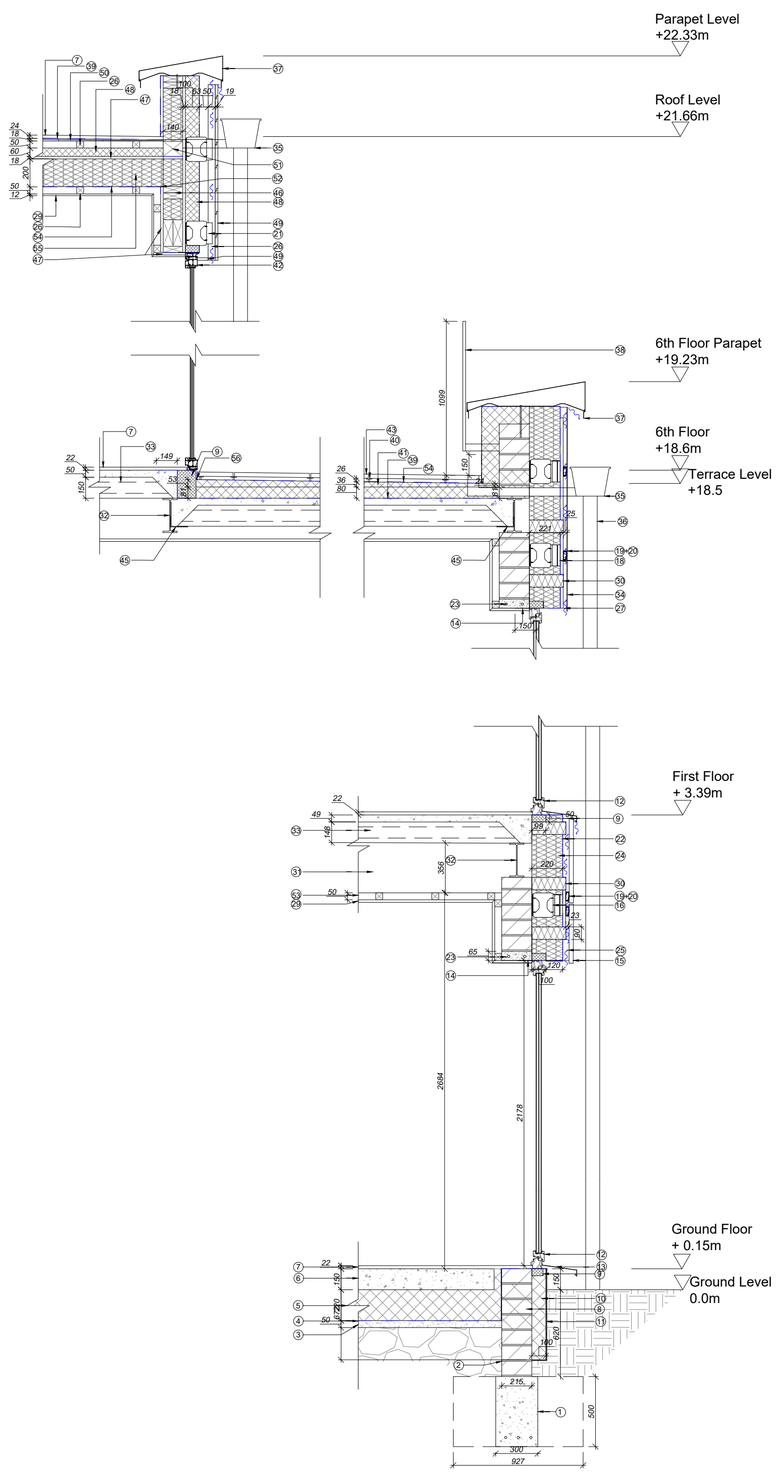
1 6th Floor Bay Plan
Scale 1:20



2 Upper Floor Bay Plan
Scale 1:20



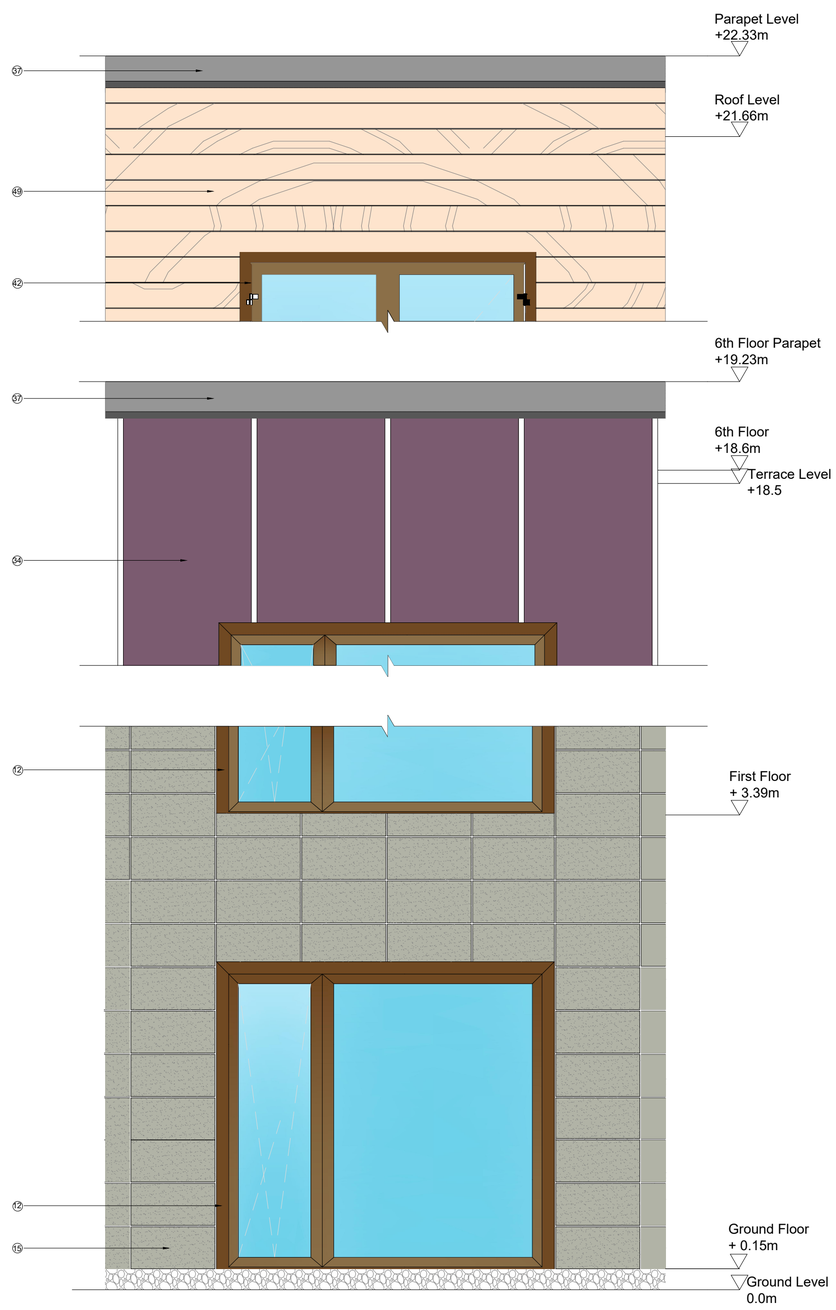
3 Ground Floor Bay Plan
Scale 1:20



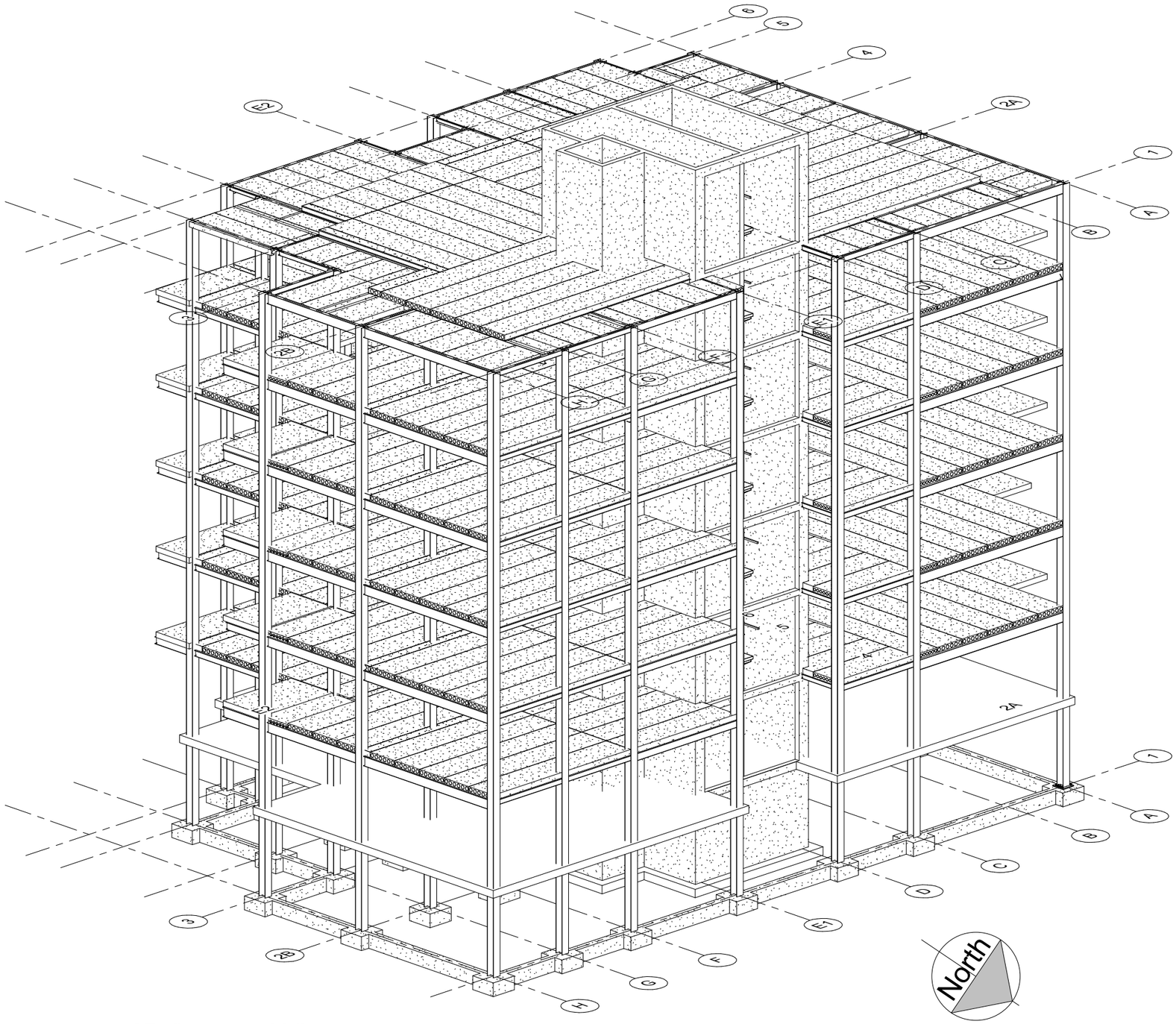
4 Bay Section
Scale 1:20

Legend

1. 927x500 Pad Foundation with 300x600 Retaining wall with A142 Steel Reinforcement
2. 215x100 Medium Weight block on flat
3. 50mm Sand Blinding
4. Monarflex Radon Barrier
5. 220mm Xtratherm Safe-R Rigid Insulation
6. 150mm Powerflow Concrete Slab
7. 22mm Timber Floorboard
8. Mannok Aircrete Thermal Block
9. Compac Foam Rigid Insulation
10. 100mm Xtratherm Rigid Insulation
11. 6mm Thincoat Silicone Render
12. Norrsken P33T Triple Glazed Aluclad Window
13. NWA Aluminium Window Cill
14. Steel Strapping
15. 30mm 300x600Taylor Maxwell Strata Jura Limestone Cladding
16. Hilti Eurofox Bracket
17. Hilti Horizontal Profile
18. Hilti Vertical Profile
19. Hilti MFT-H Stone Cladding Hangar
20. Hilti MFT-HP Hanger Profile
21. Hilti VT-1L Wood Hanger
22. Siga Majvest 700 VCL
23. Reinforced Concrete Lintel
24. Rockwool Rainscreen Duo-Slab Flexible insulation
25. Airflow Direction
26. 50x50 Softwood Timber Battens
27. Steel Mesh Vent
28. 18mm Gypsum Plaster
29. 12.5mm Gypsum Plasterboard
30. Rockwool SP Firestop OSCB Cavity Barrier With Intumescent Face
31. 356x171x51 Universal Steel Beam applied with Intumescent Paint
32. 254x102x22 Universal Steel Beam applied with Intumescent Paint
33. 150mm Ducon Hollowcore with 50mm Concrete Screed
34. 4mm 914x1800 Alpolic A1 Aluminium Composite Material Rainscreen Cladding with Powder
35. ACO Rainwater Hopper
36. ACO GM X Pipe Downspout
37. GutterClad Aluminium Parapet Capping
38. Toughened Glass Guarding
39. Sika S-Vap 4000 E Sa FR Vapour Barrier Fully Bonded to Tapered Insulation
40. Kingspan FDEB_M Raised Floor Pedestal
41. Xtratherm X-Fall 1:80 Tapered Insulation
42. Raynaers SlimLine 38 Ferro Triple Glazed AluCLad Outward Opening Door
43. 30mm Limestone Slab Flooring
44. Damp Proof Membrane
45. 5mm Angle Steel
46. 140x44 Treated Softwood Timber Battens at 400c/c
47. 18mm Smart Ply OSB
48. Knauf Rigid Insulation
49. 22mm Siberian Larch Shiplap Horizontal Cladding
50. Tapered Timber Firring Piece
51. Softwood Timber HeadPlate
52. Siga Corvum Airtape
53. Service Cavity
54. Visqueen Vapour Barrier
55. Rockwool Flexi Insulation
56. Angled Timber Fillet



5 Bay Elevation
Scale 1:20



1 3D Structural View

SCALE 1:100

No.	Description	Date

CODE	SUITABILITY DESCRIPTION
STATUS	PURPOSE OF ISSUE

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PROJECT

STEEL PROJECT

TITLE

3D Structure

CLIENT

Evan Finegan

DRAWN BY	CHECKED BY	DATE
Kelvin Higgins	Evan Finegan	11/11/21

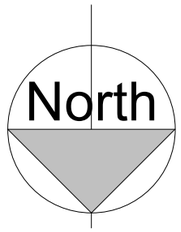
SCALE (@A2)	PROJECT NUMBER
	002

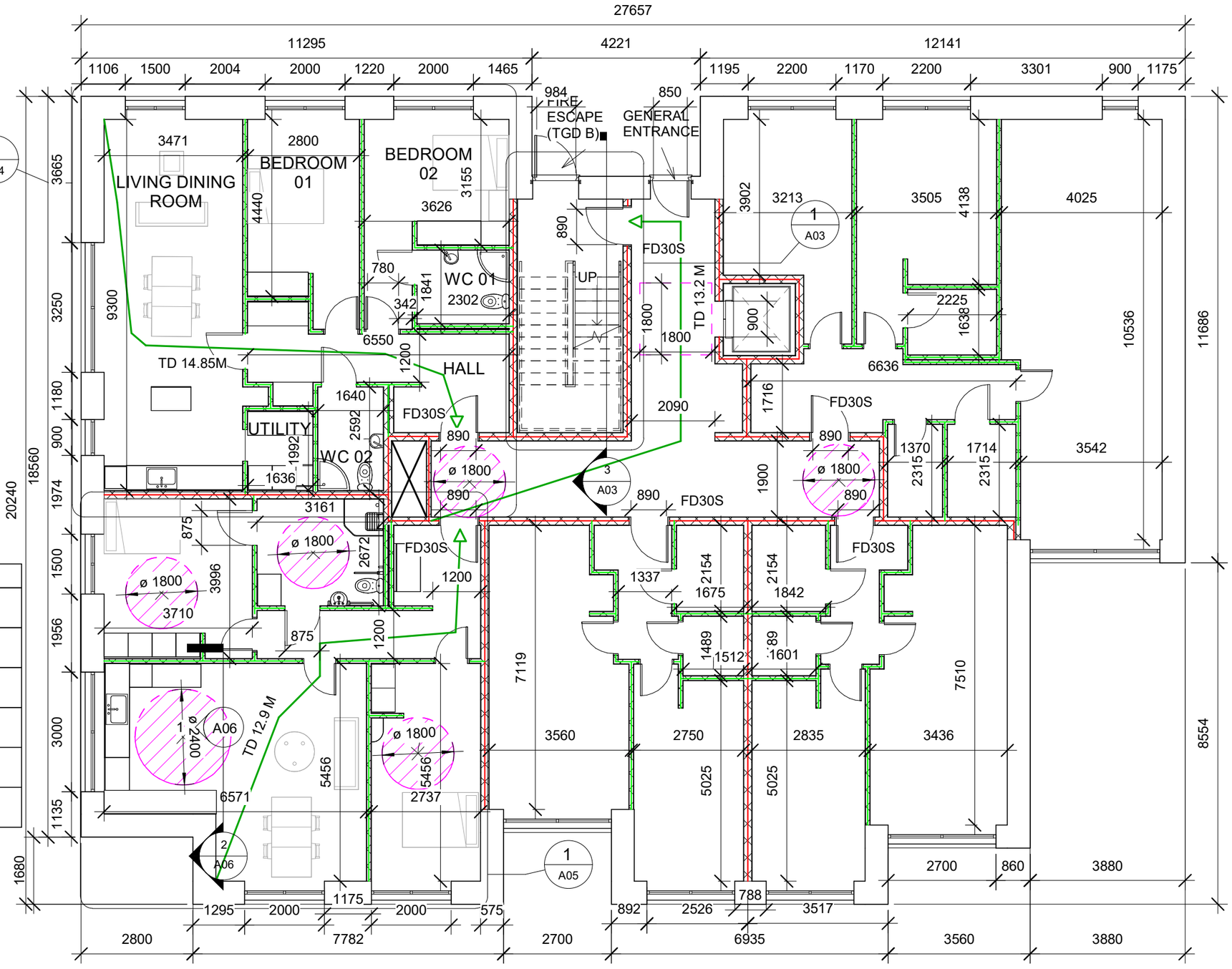
DRAWING NUMBER	REV
106	

FIRE ESCAPE 984MM CLEAR WIDTH (MIN 950MM TGD B)

850MM CLEAR WIDTH GENERAL PUBLIC ENTRANCE

780MM CLEAR WIDTH WITHIN DWELLING (MIN 775MM TGD M)





LEGEND	
→	TRAVEL DISTANCE (TGD B)
	WHEELCHAIR CLEAR AREA (TGD M)
	WHEELCHAIR CLEAR AREA (TGD M)
	FR 30 WALL (TGD B)
	FR 60 WALL (TGD B)
	SERVICE SHAFT

1 First Floor

1 : 100

No.	Description	Date

MTU Ollscoil Teicneolaíochta na Mumhan Munster Technological University

PROJECT: FIRE AND ACCESS

SHEET: Ground Floor

CLIENT: Evan Finegan

Date	Project number	Scale (@ A3)
8/10/21	0001	1 : 100

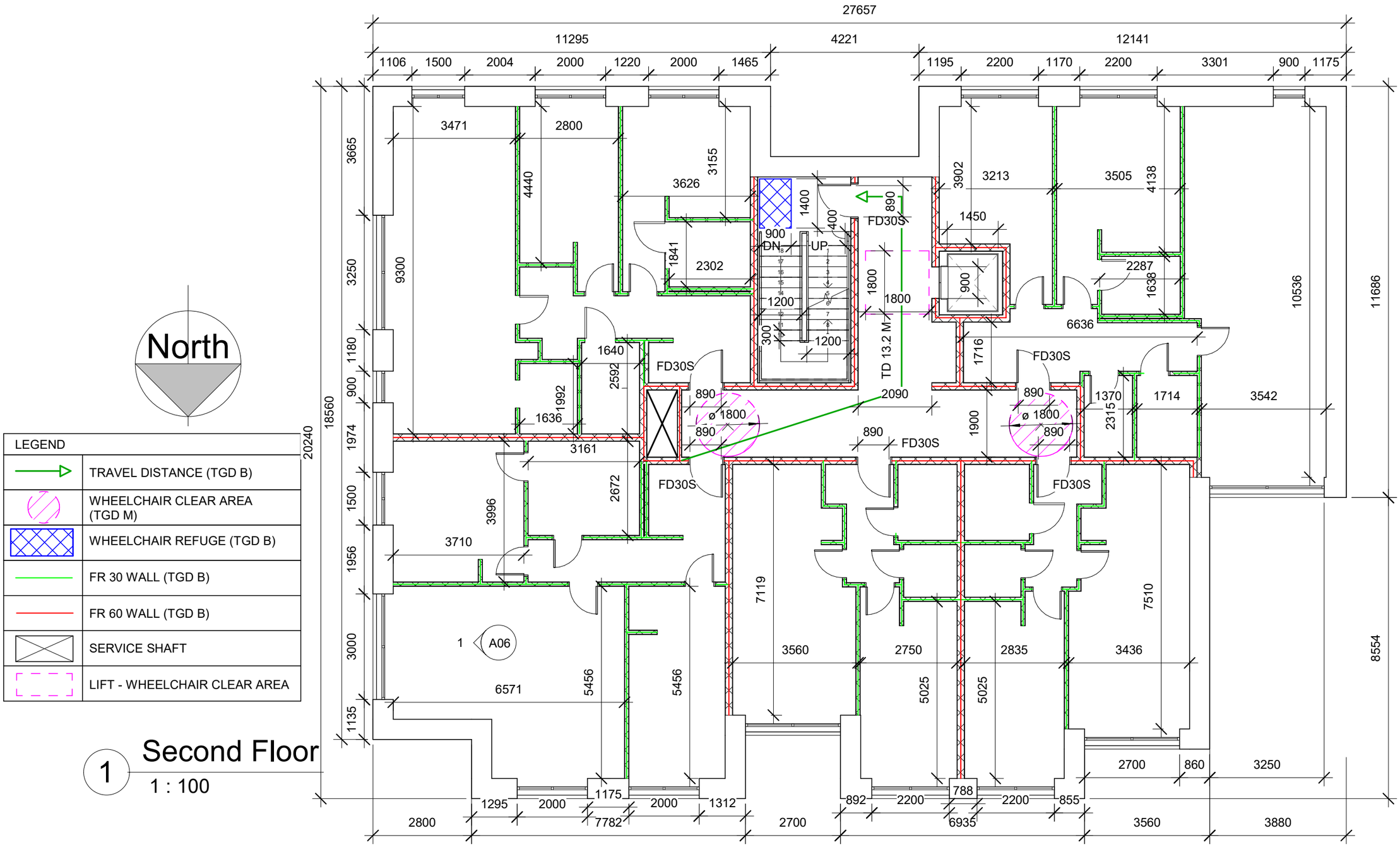
Drawn by: Kelvin Higgins

Checked by: Evan Finegan

DRWAING NUMBER: A01

REV

14/10/2021 22:32:24



LEGEND	
→	TRAVEL DISTANCE (TGD B)
	WHEELCHAIR CLEAR AREA (TGD M)
	WHEELCHAIR REFUGE (TGD B)
	FR 30 WALL (TGD B)
	FR 60 WALL (TGD B)
	SERVICE SHAFT
	LIFT - WHEELCHAIR CLEAR AREA

1 Second Floor
1 : 100

No.	Description	Date

MTU
Ollscoil Teicneolaíochta na Mumhan
Munster Technological University

PROJECT
FIRE AND ACCESS

SHEET
Second Floor

CLIENT
Evan Finegan

Date	Project number	Scale (@ A3)
8/10/21	0001	1 : 100

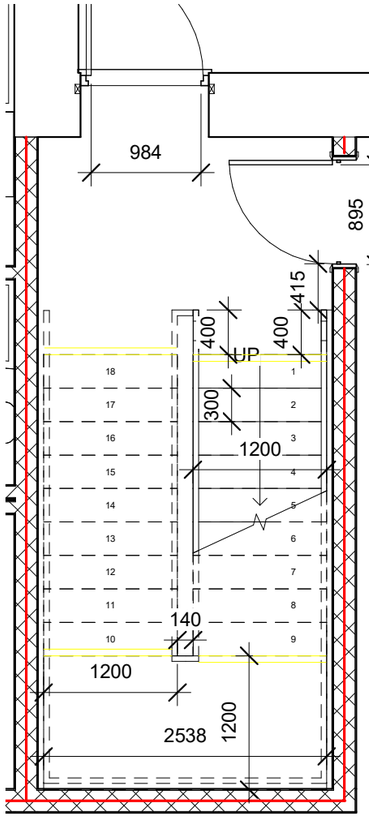
Drawn by: Kelvin Higgins
Checked by: Evan Finegan
DRWAING NUMBER: A02
REV:

14/10/2021 22:33:40

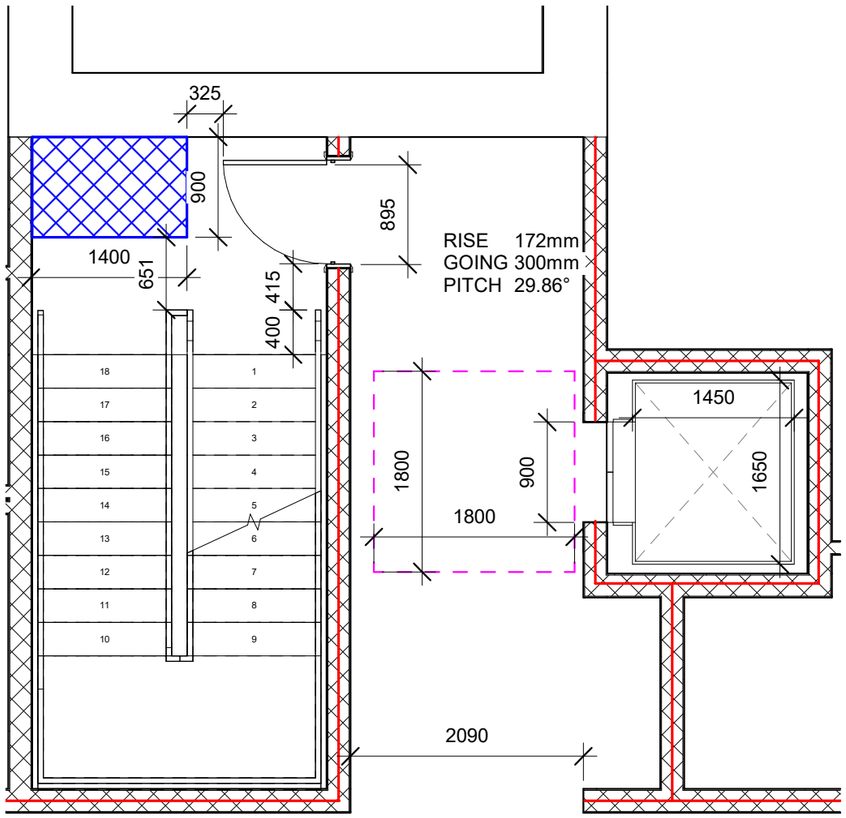
LEGEND	
	WHEELCHAIR CLEAR AREA(TGD M)
	WHEELCHAIR REFUGE (TGD M)
	HIGH CONTRAST NOSING STRIP(TGD M)
	FR 60 WALL
	FR 30 WALL

60mm x 60mm NOSING APPLIED TO BEGINNING AND END OF STAIR FLIGHTS

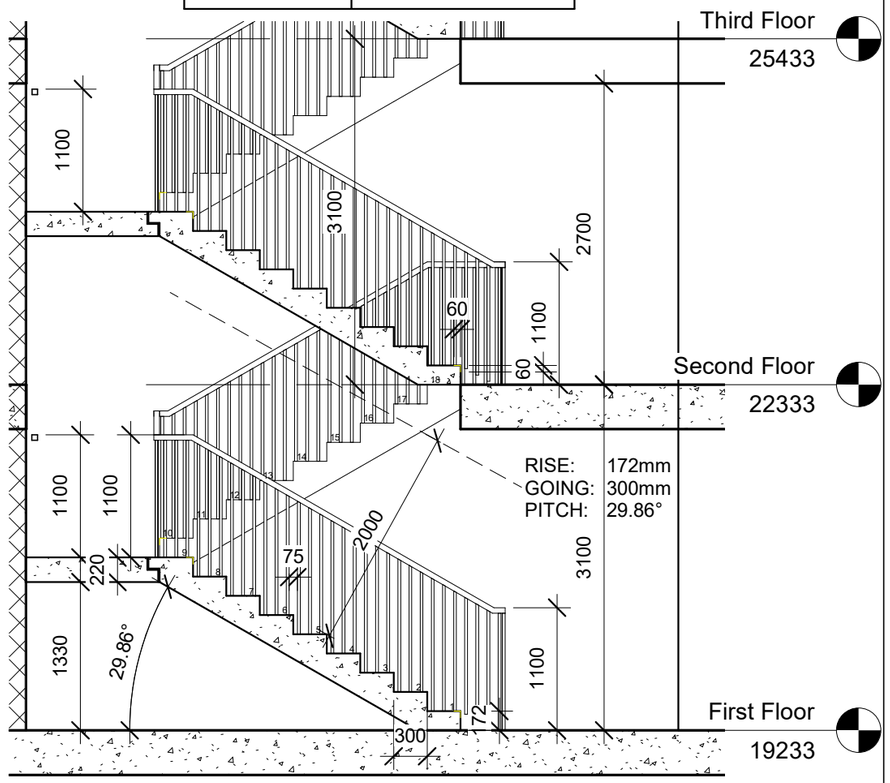
TGD B, K , M COMPLIANT STAIRS



1 First Floor Stair Plan
1 : 50



2 Second Floor + Lift Plan
1 : 50



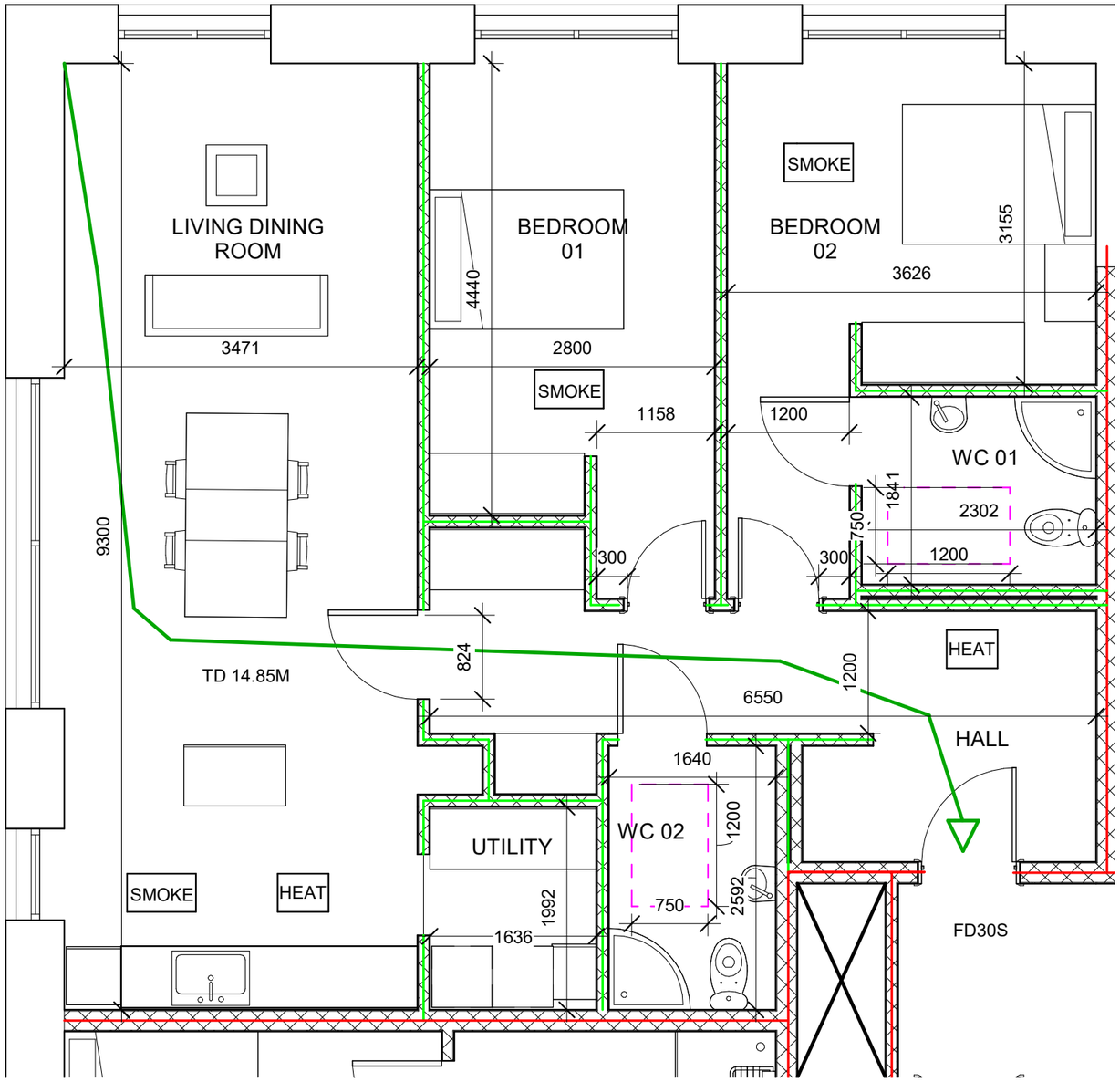
3 Stair Section
1 : 50

No.	Description	Date

Ollscoil Teicneolaíochta na Mumhan
Munster Technological University

PROJECT: FIRE AND ACCESS	CLIENT: Evan Finegan		
SHEET: Stairs	Date: 8/10/21	Project number: 0001	Scale (@ A3): 1 : 50
	Drawn by: Kelvin Higgins	DRWAING NUMBER: A03	REV
	Checked by: Evan Finegan		

14/10/2021 21:29:00



LEGEND	
	FR 30 WALL (TGD B)
	FR 60 WALL (TGD B)
	CLEAR AREA (TGD M)
	TRAVEL DISTANCE
HEAT	HEAT DETECTOR (TGD B)
SMOKE	SMOKE DETECTOR (TGD B)

1 TGD M Apartment

1 : 50

No.	Description	Date

MTU Ollscoil Teicneolaíochta na Mumhan Munster Technological University

PROJECT: FIRE AND ACCESS

SHEET: Part M Apartment

CLIENT: Evan Finegan

Date	Project number	Scale (@ A3)
8/10/21	0001	1 : 50

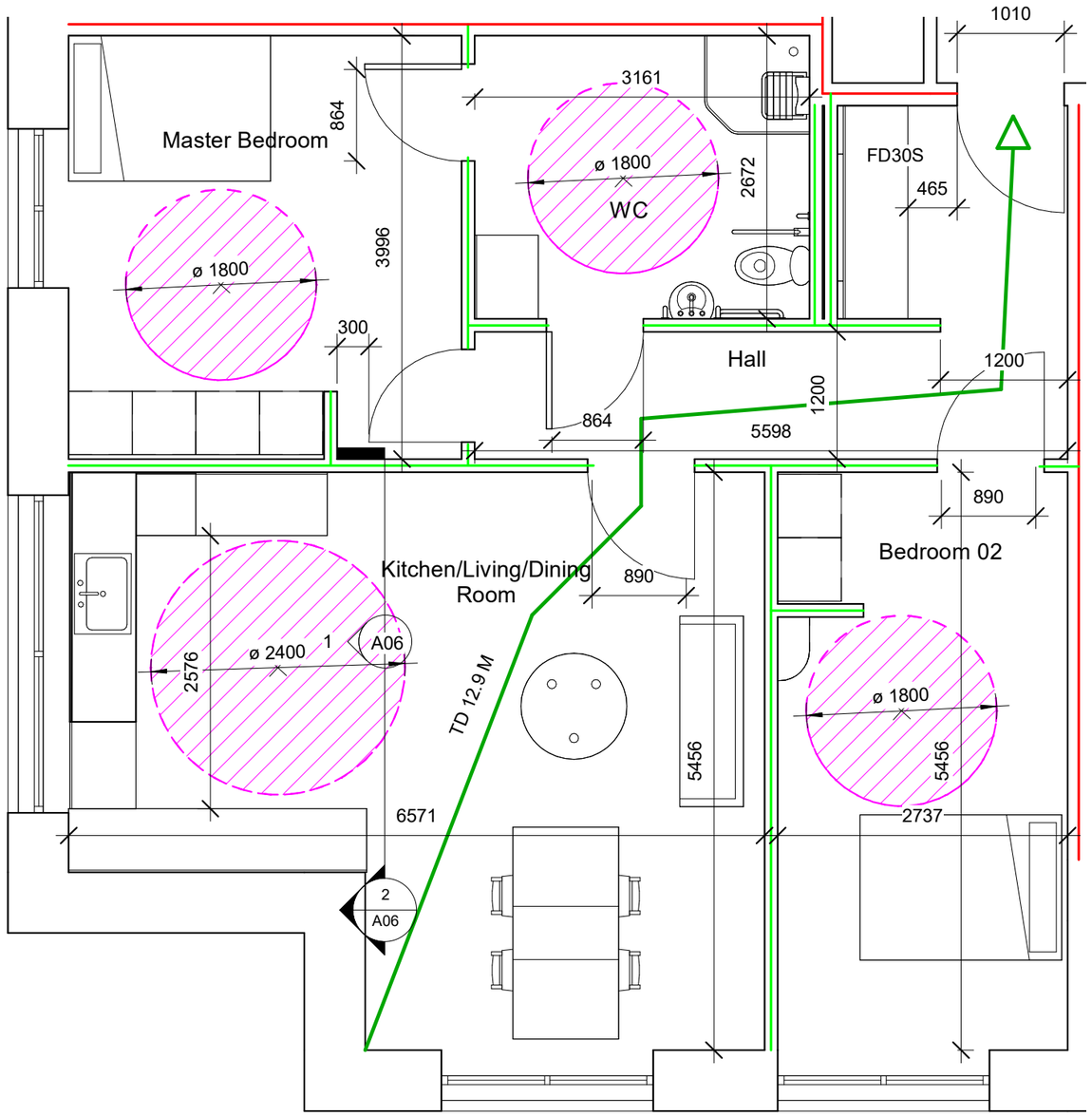
Drawn by: Kelvin Higgins

Checked by: Evan Finegan

DRWAING NUMBER: A04

REV:

14/10/2021 21:52:01



LEGEND	
	WHEELCHAIR CLEAR AREA FOR TURNING CIRCLE
	TRAVEL DISTANCE
	FR 30
	FR 60

1 Universal Design Apartment

1 : 50

No.	Description	Date

PROJECT
FIRE AND ACCESS

SHEET
Universal Design Apartment

CLIENT
Evan Finegan

Date	Project number	Scale (@ A3)
8/10/21	0001	1 : 50

Drawn by
Kelvin Higgins

Checked by
Evan Finegan

DRWAING NUMBER
A05

REV

14/10/2021 23:00:12

Kitchen / Dining Render

Living / Kitchen Render

Bedroom Render

Precast Stair Render

MTU

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No.	Description	Date

Eoghan Horgan Construction Drawings

Internal Renders

Project number	004
Date	06/05/22
Drawn by	Kelvin Higgins
Checked by	Eoghan Horgan

E006

Scale

06/05/2022 18:18:24