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A002	03	SPECIFICATION
A101	03	EXISTING SITE PLAN
A102	02	PROPOSED SITE PLAN
A103	03	SITE PLANNING PLAN
A104	03	DRAINAGE PLAN
A201	03	FOUNDATION SETOUT
A202	02	FLOOR PLAN - LEVEL 0
A203	03	FLOOR PLAN - LEVEL 1
A204	02	ROOF PLAN
A205	02	FIRE EGRESS ROUTE DIAGRAM
A301	02	ELEVATIONS
A302	03	ELEVATIONS
A303	03	WINDOW & DOOR SCHEDULE
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A504	03	DETAILS -CLADDING 1
A505	03	DETAILS -CLADDING 1
A506	03	DETAILS -CLADDING 2
A507	02	DETAILS -CLADDING
A508	03	DETAILS -WETAREA
A509	03	DETAILS -WETAREA
A510	03	GENERAL DETAIL
A511	02	GENERAL DETAIL

Detailed Design

16 Scott Rd Papakura AUCKLAND
New Dwelling

Prepared for Building Consent

MULU
DESIGN
WORKSHOP

m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

Notes

3.15.55 **Raft slab system**
to engineer drawing, where plumbing penetration required through DPM, seal penetration as per DPM manufacture spec requirement.

3.80.31 **Roof framing -timber truss**
Timber truss @900crs. Fixing to wall plate refer to truss manf. spec for details. roof plane brace to engineer drawing, gable end brace to mitek "gable end bracing" specification

3.80.80 **ceiling batten 70x35**
70x35 timber ceiling battens @400crs with 10mm GIB lining. Merchant grade

3.82.02 **Floor framing - upper level**
240x45 Timber floor joist, SG8 H1.2 treated, spacing to engineer drawing. Fixing as per NZS3604:2011, unless otherwise notified.

4.16.23 **Building wrap -watergate plus 295**
fire retardant building wrap, thermakraft watergate plus 295, provide PE strip tight fix to stud where spacing over 400c/c in accordance to manf. Spec.

4.16.24 **DPM**
Thermakraft Black 250um Polythene film, or similar product

4.16.90 **Roof underlay -GAF shingle roof**
underlayment selected to suit project speicfic roof slope and wind zone, refer to manf. Spec for details.

4.22.07 **timber bevelback -envira**
Niagara 187x18mm bevelback weatherbaord on cavity system, on building wrap, fix with hot dipped galv. 75x3.15 JH nail to framing, acrylic paint 6-Finish, colour , (LRV requirement as per manf. Spec)

4.22.08 **JH easylap panel**
9mm James hardie easylap panel install to manf. spec. acrylic paint finish. colour: resene element

4.22.31 **roof soffit -4.5mm**
hardie flex soffit lining, PVC joint jointing, S.S screw fix @200c/c to supporting elements @600crs. Max.

4.35.01 **GAF - shingle roofing**
GAF asphalt shingles fixed to 15mm plywood substrate with stainless steel or HDG clouts and Holdfast blackjack roof cement, underlay use #15 udnerlayment or D226+ roof wrap at roof pitches greater than 12°. As per manf. Spec.

4.52.21 **Aluminium window and doors**
Aluminium window and doors, refer to Joinery schedules for type and size and 6-Finish.

4.55.01 **Sectional garage door**
colour steel endura, 0.55BMT, with integrated insulation kit to cavity of sectional sheet panel. Silent operated motor with remote control. refer to architectural oplan for recesses, dimensions and levels only. c.o.s rebate size with garage door manufacturer and installer prior to rebate installation.

4.71.16 **Insulation -external wall R2.8**
timber framing insulation: R2.8 90mm batts insulation to 90mm timber wall.

4.71.44 **insulation -truss**
fit R3.2 170mm batts insualtion over ceiling, install to manufactuere specification.

5.23.30 **Internal Door -hinged**
Internal Door, type: Hollow core, 6-Finish: acrylic paint.

5.23.31 **Internal Door -wardrobe slider**
double top hang hollow core panel, paint 6-Finish

5.43.02 **Timber flooring - strandboard**
20mm HD particle board for dry 7-Service area,

5.51.01 **Main private stair**
Timber Stair: prefabricated solid timber stairs to comply with the requirements of D1/As1 for main private stair. Min. tread 280mm, max rise 190mm. All stairs to be have 50 dia painted pine handrail set 900mm above the pitch line of the stairs.

5.51.05 **handrail**
provide handrail continuous along stair path in accordance to D1/AS1, profile to D1/AS1 figure 26.

6.22.01 **WPM general**
Only use approved Finish systems from individual coatings manufactueres.

6.22.04 **tile underlay -wetarea**
James Hardie 6mm undertile fibrecement sheet, fix by gal. 25x2.5 annullar threaded nail to manf. Spec.

6.22.05 **Bostic -ASA dampfix Gold**
apply ASA dampfix gold waterproofing membrane to wet area as per manf. Spec.

6.31.01 **laminated flooring -glue down**
selected Laminated flooring by client, glue fix over levelling

6.51.01 **Carpet**
selected carpet over underlay, installed as per manufacturer's specification. Selection TBC by client.

4.43 **metal fascia - 135mm**
Selected 135mm metal fascia .55BMT colourssteel endura, colour flaxpod

7.43.14 **SW drainage pipe**
100mm uPVC stormwater line, fall at 1:120 min. to E1/AS1, fall to council approved connection. Ensure all heights and falls are checked against the connection height on site prior to commencement of works.

7.43.21 **SS drainage pipe**
100mm uPVC Sewer Line: to connect to sewer mains. Fall at 1:60min. to NZS3500.2, ensure all heights and falls are checked against the connection height on site prior to commencement of works.

7.70.01 **Smoke Detector -type 1**
provide smoke detectors as required to F7/AS1 Cl, 3.1 of the NZBC. long life battery powered, Refer to plan for location.

3 **bevelback timber weatherboard**

4 **sectional garage door**

4.21.01 **Vertical Shiplap**

5 **glass awning**

6 **Brick Veneer**
Selected 70mm Series Clay Brick Veneer Cladding

7 **Gutter -box125**
Selected 125 box gutter, .55BMT colourssteel endura, colour flaxpod

ID	Description	Date
03	DE RFI	10/05/2023

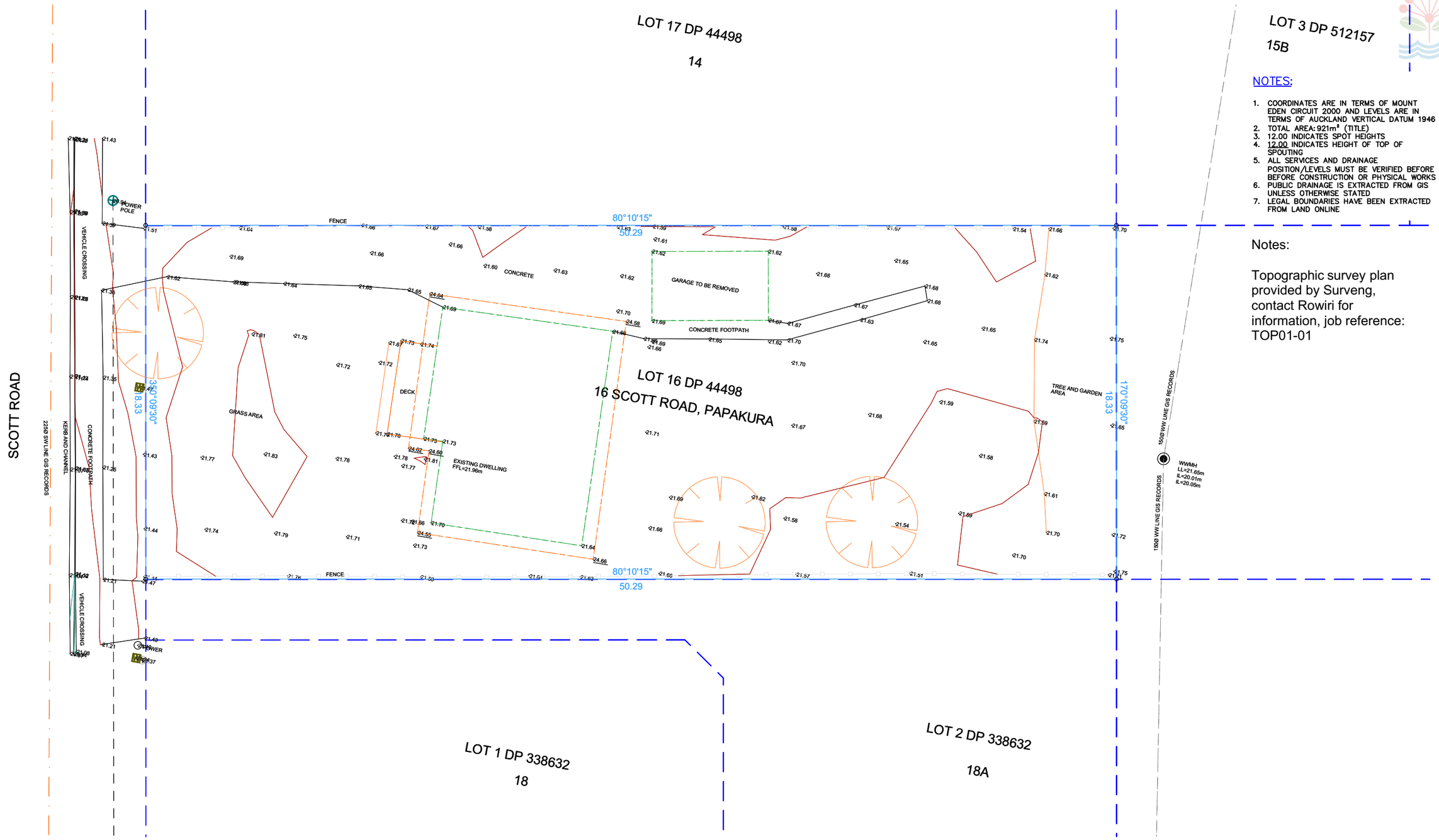
MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #PIn

DRAWING: **SPECIFICATION**

DATE: 10/05/2023 | DRAWN BY: S.Z

SCALE AT A2: | DRAWING NO: **A002 -03**



NOTES:

1. COORDINATES ARE IN TERMS OF MOUNT EDEN CIRCUIT 2000 AND LEVELS ARE IN TERMS OF AUCKLAND VERTICAL DATUM 1946
2. TOTAL AREA: 921m² (TITLE)
3. 12.00 INDICATES SPOT HEIGHTS
4. 12.00 INDICATES HEIGHT OF TOP OF SPOUTING
5. ALL SERVICES AND DRAINAGE POSITION/LEVELS MUST BE VERIFIED BEFORE BEFORE CONSTRUCTION OR PHYSICAL WORKS
6. PUBLIC DRAINAGE IS EXTRACTED FROM GIS UNLESS OTHERWISE STATED
7. LEGAL BOUNDARIES HAVE BEEN EXTRACTED FROM LAND ONLINE

Notes:

Topographic survey plan provided by Surveng, contact Rowiri for information, job reference: TOP01-01

1 Existing Site Plan 1:200 1:200

N

ID	Description	Date
03	DE RFI	10/05/2023

MULU DESIGN WORKSHOP
m: 021026001 89
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #Pln

DRAWING: **EXISTING SITE PLAN**

DATE: 10/05/2023

DRAWN BY

SCALE AT A2: 1:200, 1:1

DRAWING NO: A1011-03

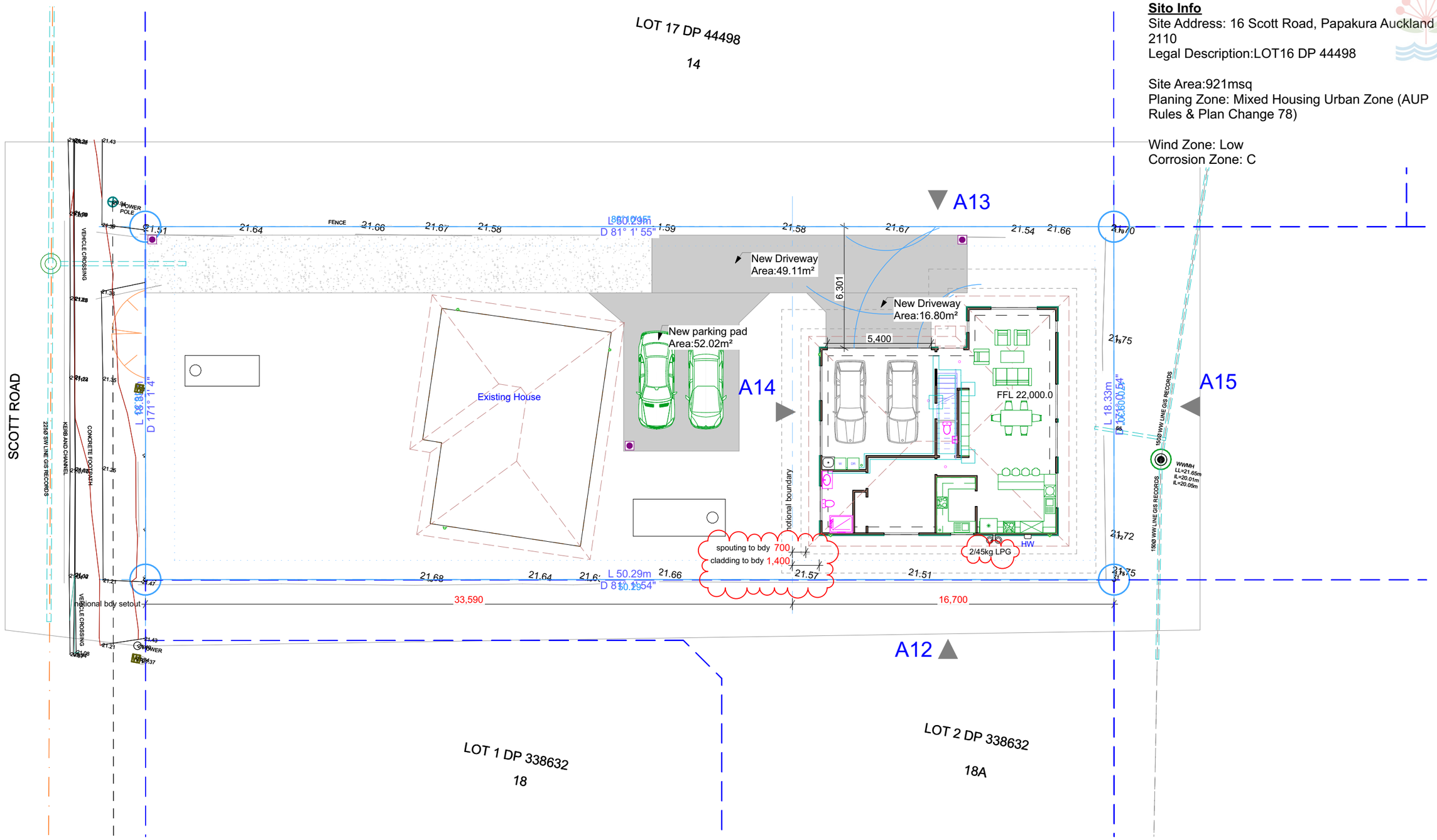
2
-

ACAD-SCOTT ROAD_16_PAPAKURA-TOPO220511-R1

Sito Info
Site Address: 16 Scott Road, Papakura Auckland 2110
Legal Description:LOT16 DP 44498

Site Area:921msq
Planing Zone: Mixed Housing Urban Zone (AUP Rules & Plan Change 78)

Wind Zone: Low
Corrosion Zone: C



1 Proposed Site Plan 1:200 1:200

N

ID	Description	Date
02	RFI	4/05/2023

MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #Pln

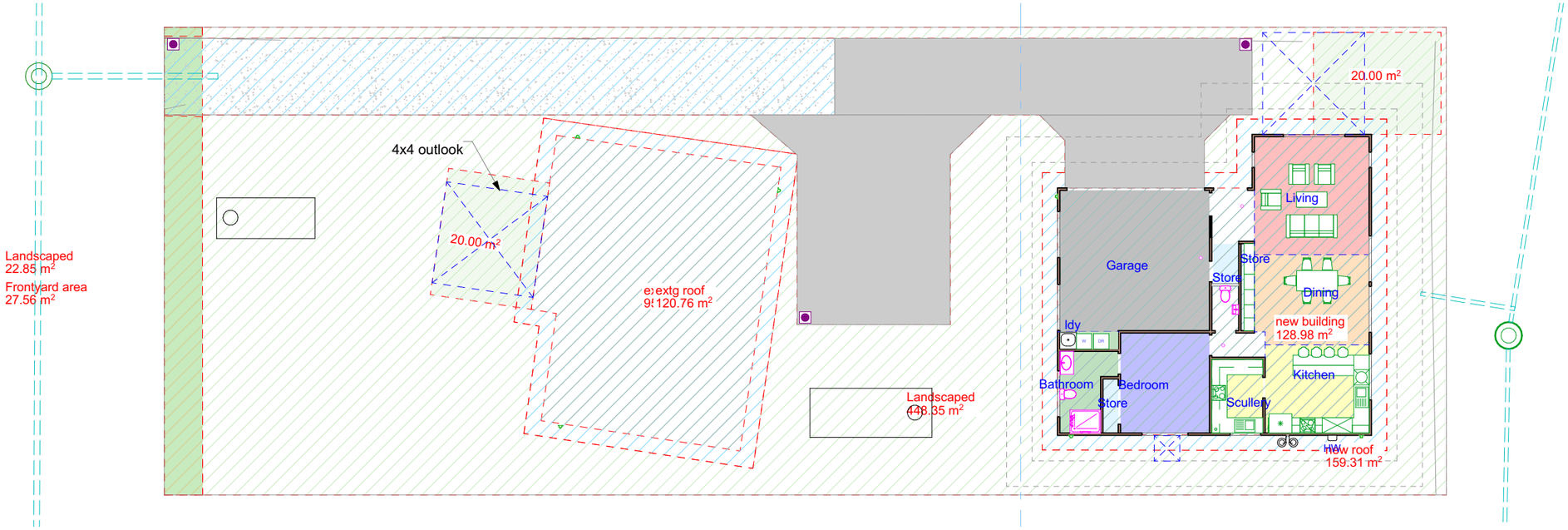
DRAWING: **PROPOSED SITE PLAN**

DATE: 10/05/2023 | DRAWN BY

SCALE AT A2: 1:200 | DRAWING NO: **A102 -01**

Notes:

Planning outlook assessed under PC78 rule, Mixed Housing Urban Zone.



1 Ground Floor 1:200

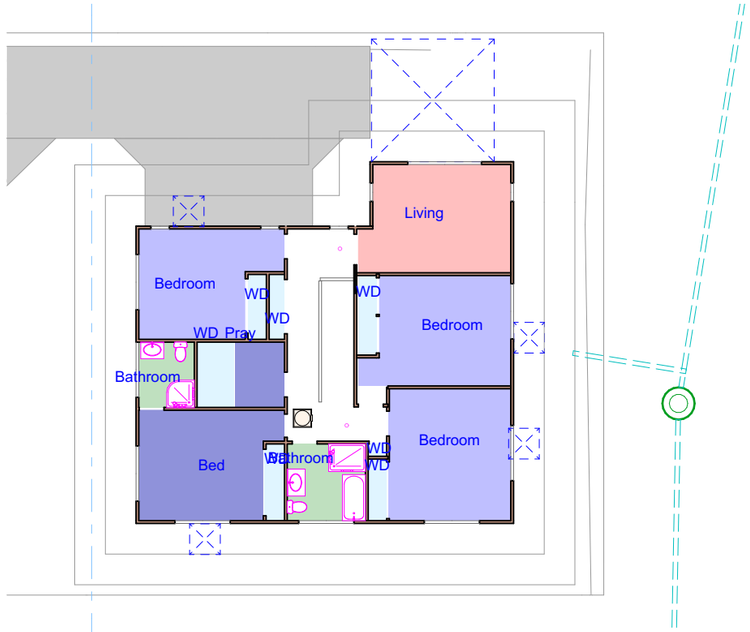
Planning Coverage Calculation
Site Area: 921m²
Zoning: MHU (plan change 78)
MHU (AUP-OIP)

Impervious Area
120.76+51.93+159.31+141.37 = 473.37
pctl 473.37/921 = 51% - -> comply

Building coverage
95.24+128.98 = 224.22
pctl 224.22/921 = 24% - -> comply

Landscpae Coverage
pctl 448.35/921 = 49% - -> comply

Landscape frontyard
pctl 22.85/27.56 = 83% - -> comply



2 First Floor 1:200

N

ID	Description	Date
03	DE RFI	10/05/2023

MULU DESIGN WORKSHOP
m: 02102600189
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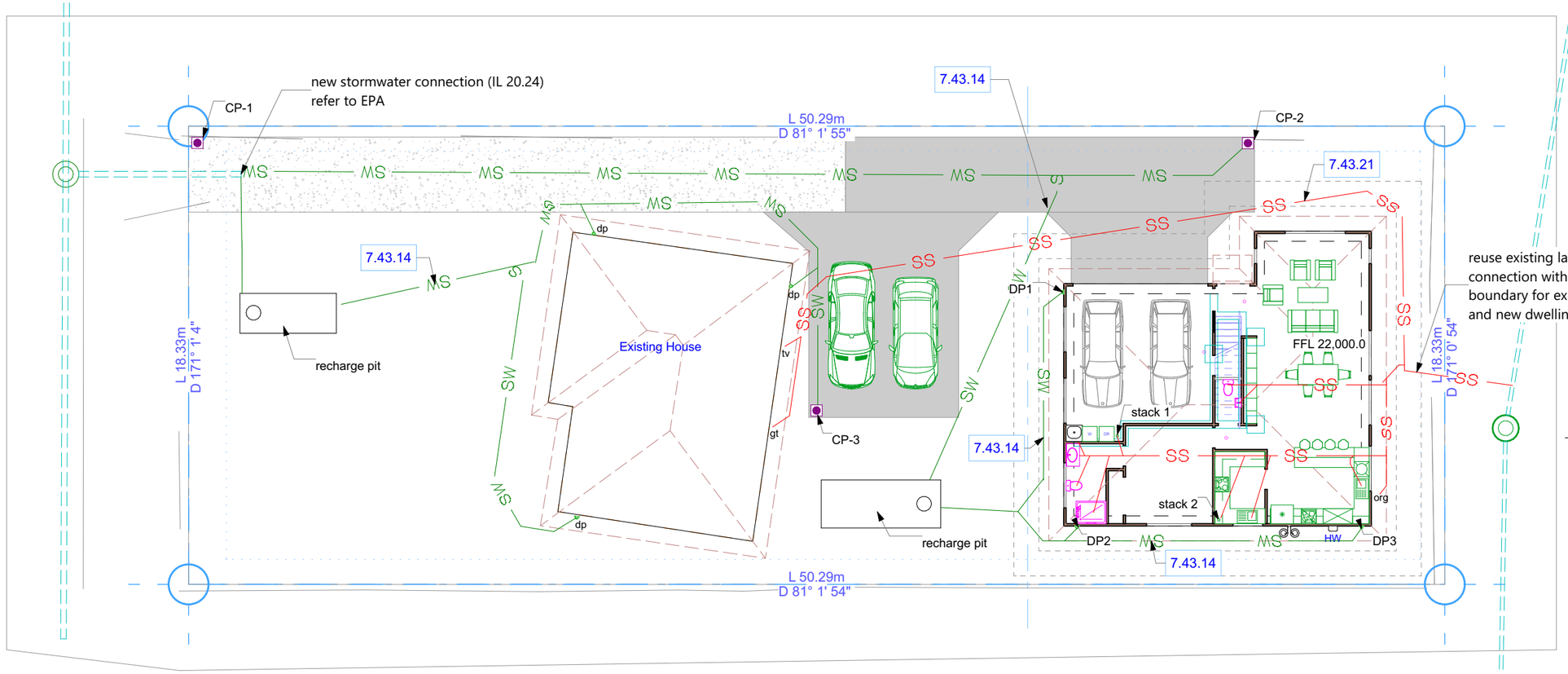
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #Pln

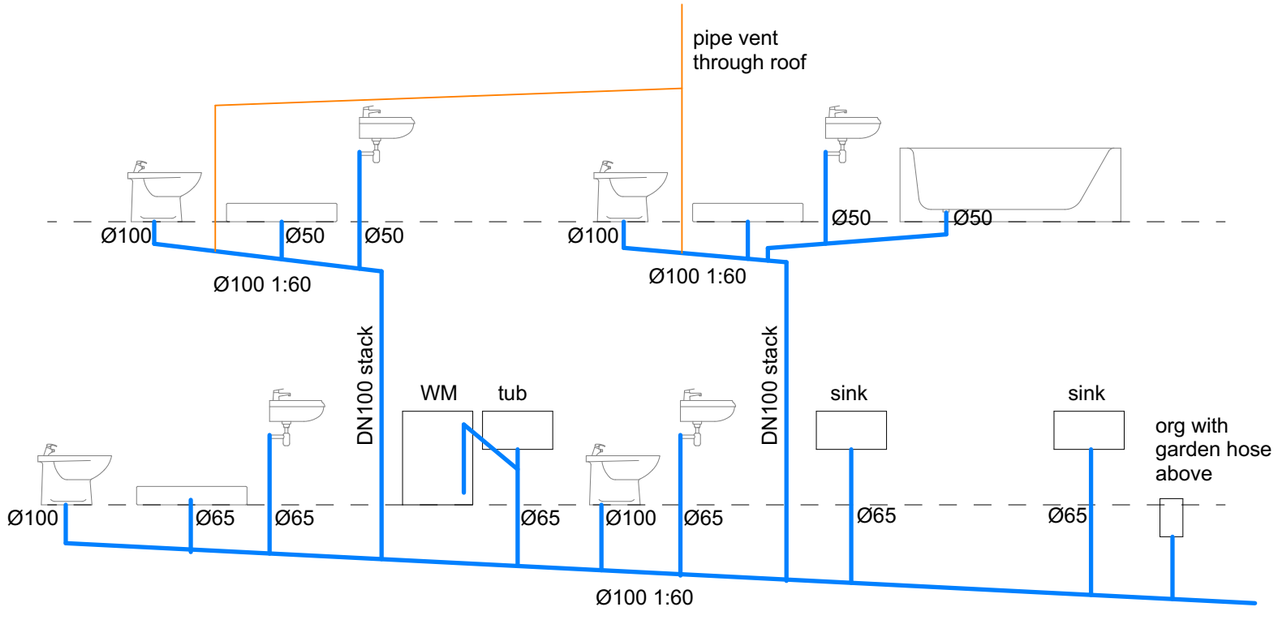
DRAWING: **SITE PLANNING PLAN**

DATE: 10/05/2023 | DRAWN BY

SCALE AT A2: 1:200 | DRAWING NO: **A103 -03**



1 Site Drainage Plan 1:200



2 plumbing schematics 1:50

Notes:
fit weir (not shown to schematics drawing for clarity) to drainage system as per AS 3500

Notes:

1/ read together with EPA ENG 60409919 for new public stormwater pipe extension

2/ cesspit design to E1/AS1 type 1

3/ all downpipes for new building use 80DN

4/ contractor to reroute existing sewer line away from new building and connect to existing connection

5/ contract to reroute existing stormwater private line via recharge pit to new stormwater connection.

Notes

7.00.00 Service

7.43.14 SW drainage pipe
100mm uPVC stormwater line, fall at 1:120 min. to E1/AS1, fall to council approved connection. Ensure all heights and falls are checked against the connection height on site prior to commencement of works.

7.43.21 SS drainage pipe
100mm uPVC Sewer Line: to connect to sewer mains. Fall at 1:60min. to NZS3500.2, ensure all heights and falls are checked against the connection height on site prior to commencement of works.

REVIEWED
By Chande at 12:03 pm, May 11, 2023

ID	Description	Date
02	RFI	4/05/2023
03	DE RFI	10/05/2023

MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #Pln

DRAWING: **DRAINAGE PLAN**

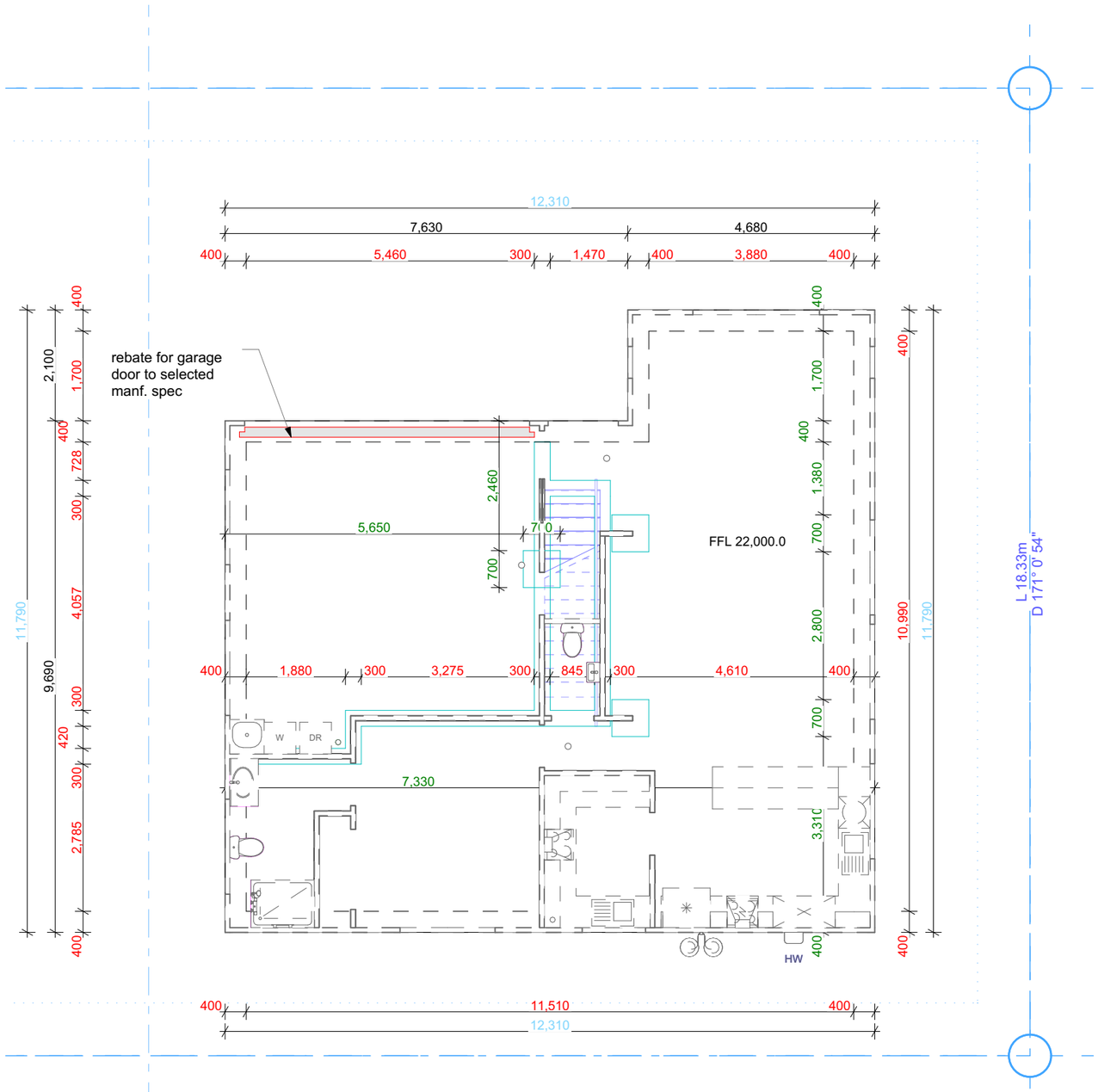
DATE: 10/05/2023 | DRAWN BY

SCALE AT A2: 1:200, 1:50 | DRAWING NO: **A104 -03**

Notes:

1/ refer to structural engineer draiwng provided by Space Structural for foundation design

2/ soil excavation refer to geotechnical report provided by soil and rock.



1 Foundation Setout 1:100

N

ID	Description	Date
03	DE RFI	10/05/2023

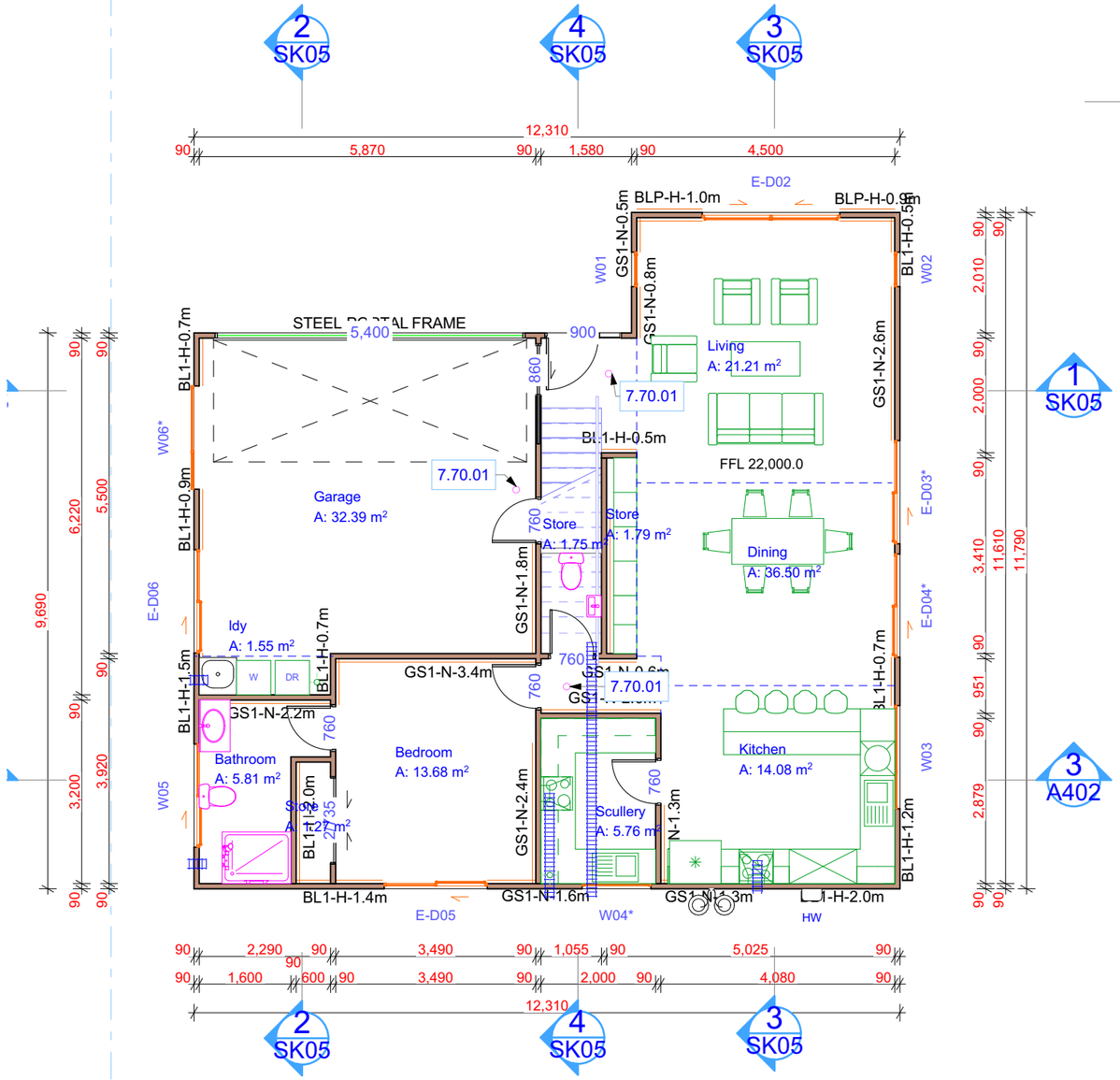
MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #PIn

DRAWING: **FOUNDATION SETOUT**

DATE: 10/05/2023 | DRAWN BY

SCALE AT A2: 1:100 | DRAWING NO: **A201 -03**



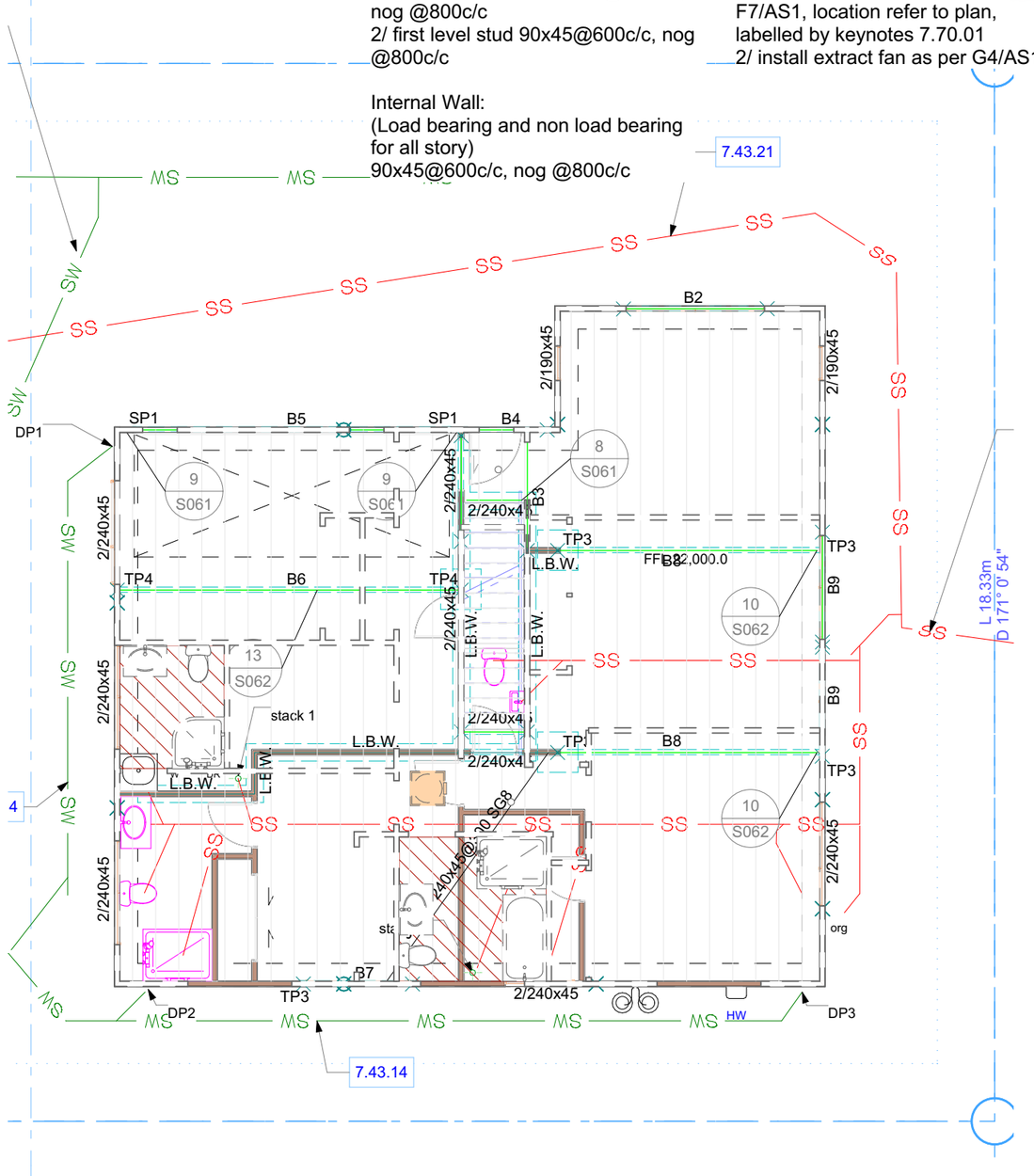
4 Ground Floor 1:100

Wall Framing Schedule
External Wall:
1/ ground level stud 90x45@600c/c, nog @800c/c
2/ first level stud 90x45@600c/c, nog @800c/c

Internal Wall:
(Load bearing and non load bearing for all story)
90x45@600c/c, nog @800c/c

Notes:

1/ install smoke detecor as per F7/AS1, location refer to plan, labelled by keynotes 7.70.01
2/ install extract fan as per G4/AS1



2 ground level wall framing 1:100

ID	Description	Date
02	RFI	4/05/2023

MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #PIn

DRAWING: **FLOOR PLAN - LEVEL 0**

DATE: 10/05/2023 | DRAWN BY: S.Z

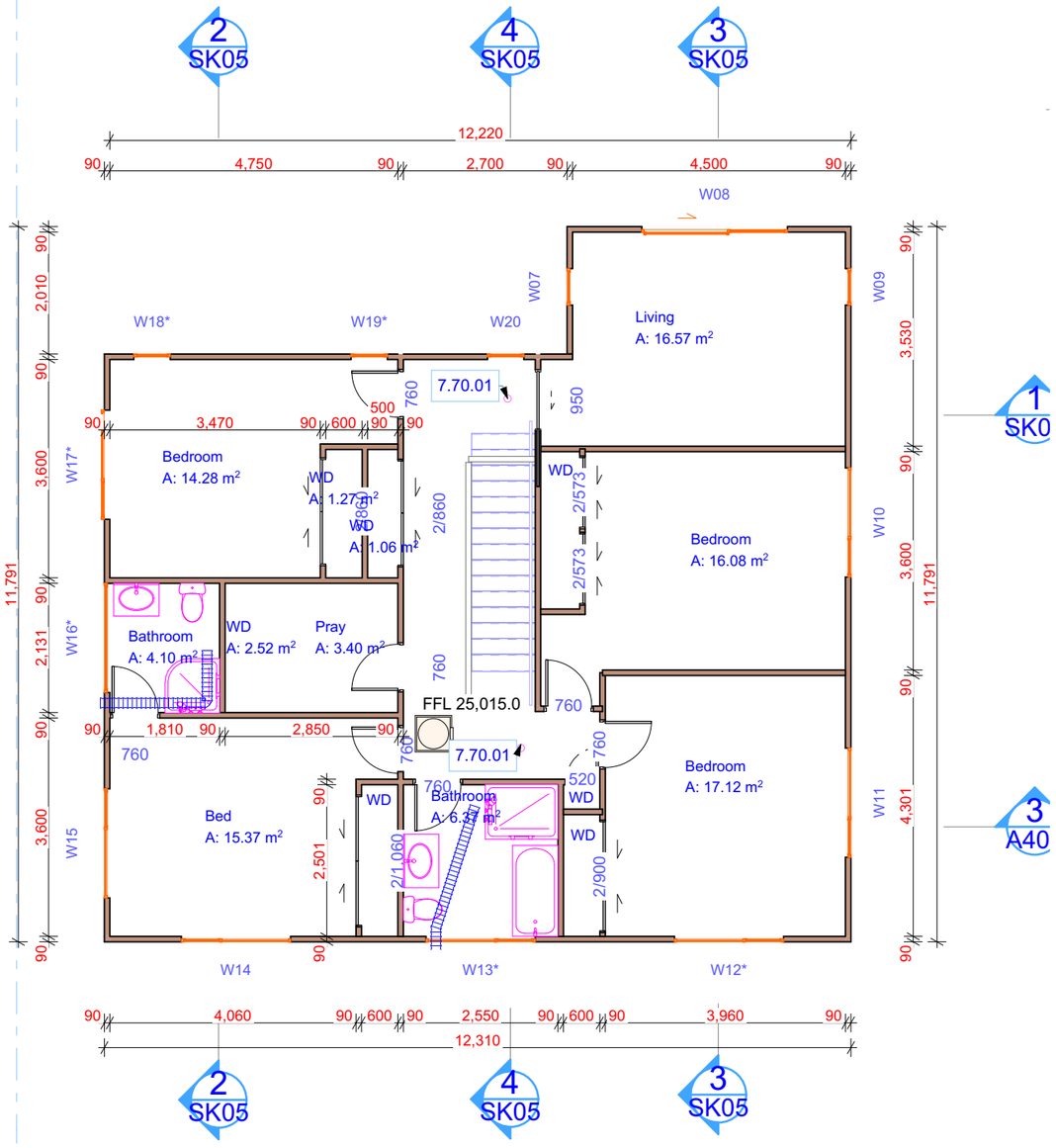
SCALE AT A2: 1:100 | DRAWING NO: **A202 -01**

Wall Framing Schedule
External Wall:
1/ ground level stud 90x45@600c/c, nog @800c/c
2/ first level stud 90x45@600c/c, nog @800c/c

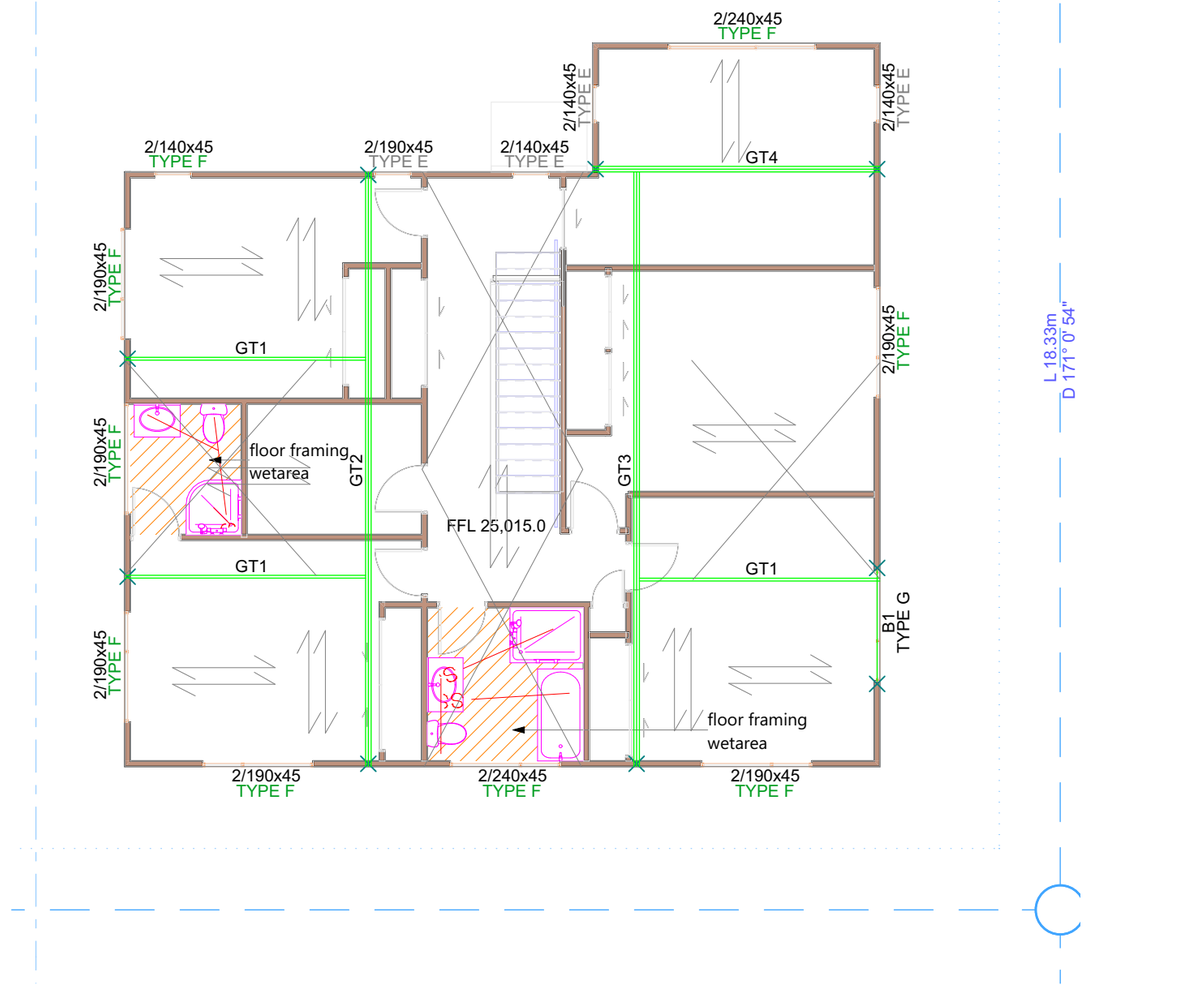
Internal Wall:
(Load bearing and non load bearing for all story)
90x45@600c/c, nog @800c/c

Notes:

1/ install smoke detecor as per F7/AS1, location refer to plan, labelled by keynotes 7.70.01
2/ install extract fan as per G4/AS1
3/ timber flooring for wetarea to be H3 treated 17mm min plywood. with 6mm tile underlay over.



1 First Floor 1:100



2 first level wall framing 1:100

N

ID	Description	Date
02	RFI	4/05/2023
03	DE RFI	10/05/2023

MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #PIn

DRAWING: **FLOOR PLAN - LEVEL 1**

DATE: 10/05/2023 | DRAWN BY: S.Z

SCALE AT A2: 1:100 | DRAWING NO: **A203 -03**

Notes

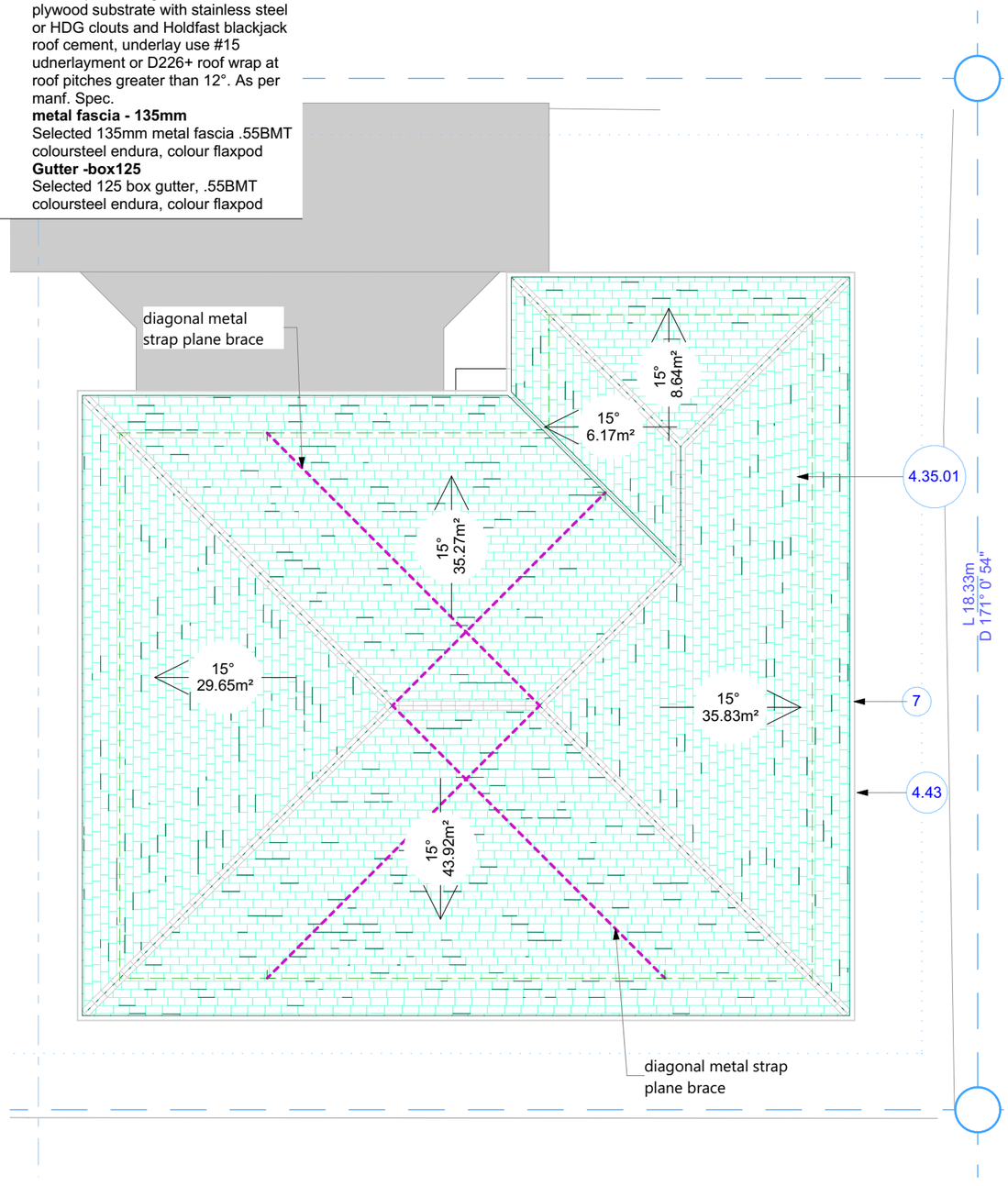
0

4.35.01 **GAF - shingle roofing**
GAF asphalt shingles fixed to 15mm plywood substrate with stainless steel or HDG clouts and Holdfast blackjack roof cement, underlay use #15 udnerlayment or D226+ roof wrap at roof pitches greater than 12°. As per manf. Spec.

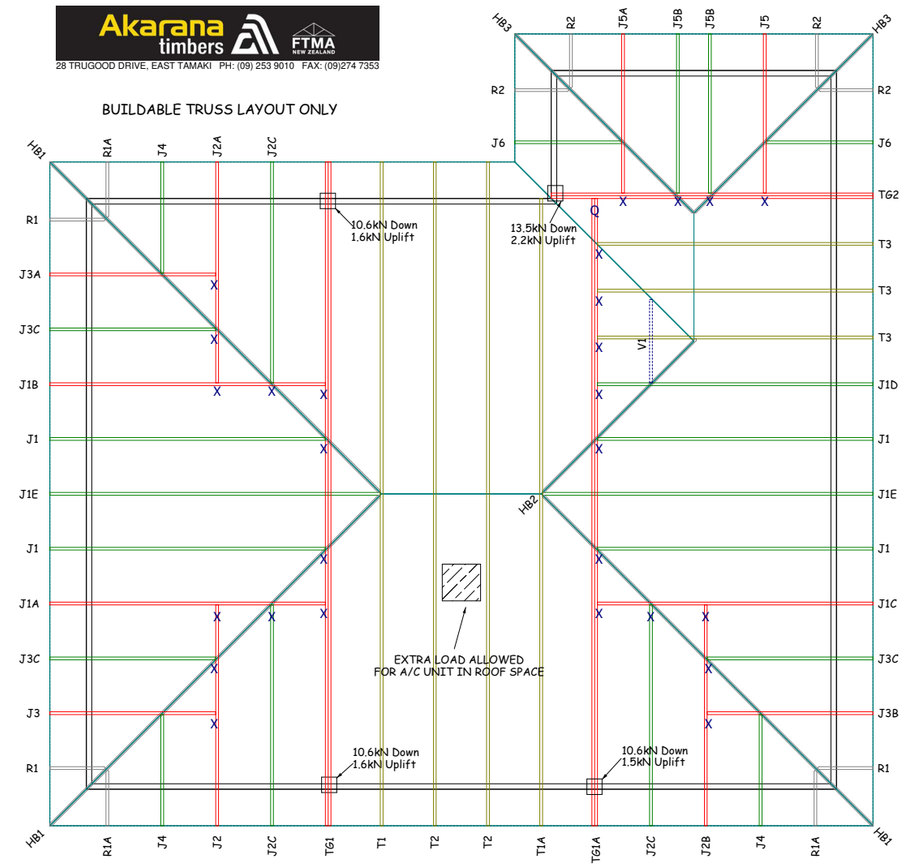
4.43 **metal fascia - 135mm**
Selected 135mm metal fascia .55BMT coloursteel endura, colour flaxpod

7 **Gutter -box125**
Selected 125 box gutter, .55BMT coloursteel endura, colour flaxpod

Notes
1/ roof bracing by metal strap plane brace refer to lumberlok roof bracing specification as per NZS 3604:2011



1 Roof Plan 1:100



2 Roof Truss Layout

N

ID	Description	Date
02	RFI	4/05/2023

MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #Pln

DRAWING: **ROOF PLAN**

DATE: 10/05/2023 | DRAWN BY: S.Z

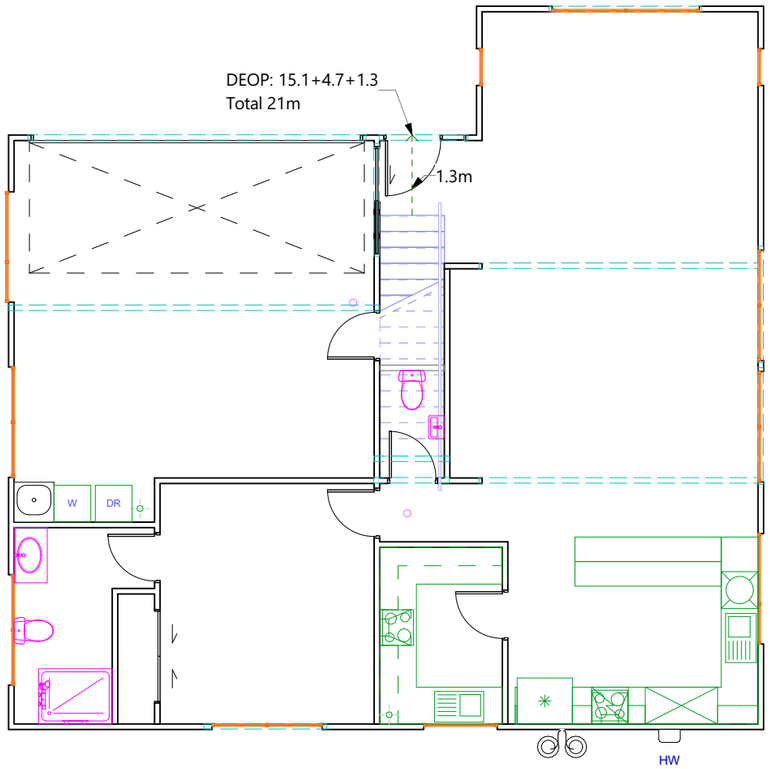
SCALE AT A2: 1:100, 1:1.8684 | DRAWING NO: **A204 -01**

Table 3.2 Travel distances on escape routes

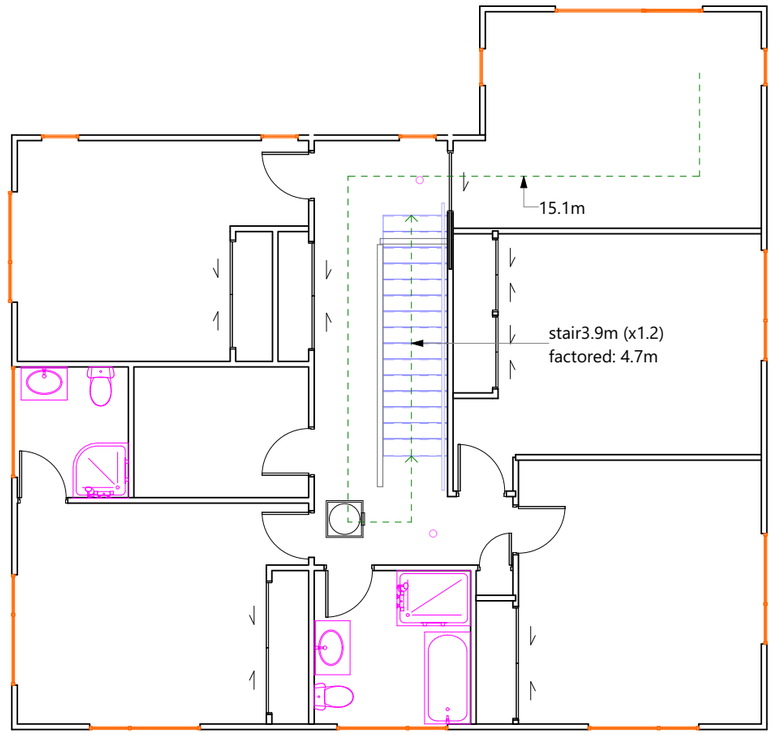
	Type 1 system only	NZS 4514 Interconnected Smoke Alarms	NZS 4517 Sprinkler system with Type 1 (in single *household units* only)	NZS 4515 Sprinkler system with Type 1	NZS 4515 Sprinkler system and NZS 4512 Smoke detection system
Dead end open path	25 m	35 m	35 m	40 m	50 m
Total *open path*	60 m	75 m	75 m	90 m	120 m

For definition of system types, see Table 2.1.

If systems are installed in order to extend permissible travel distance in accordance with this table and are not a requirement of Paragraph 2.2.1 then Fire Service connection is not required.



1 fire egress - ground level 1:100



2 fire egress - first level 1:100

N

ID	Description	Date
02	RFI	4/05/2023

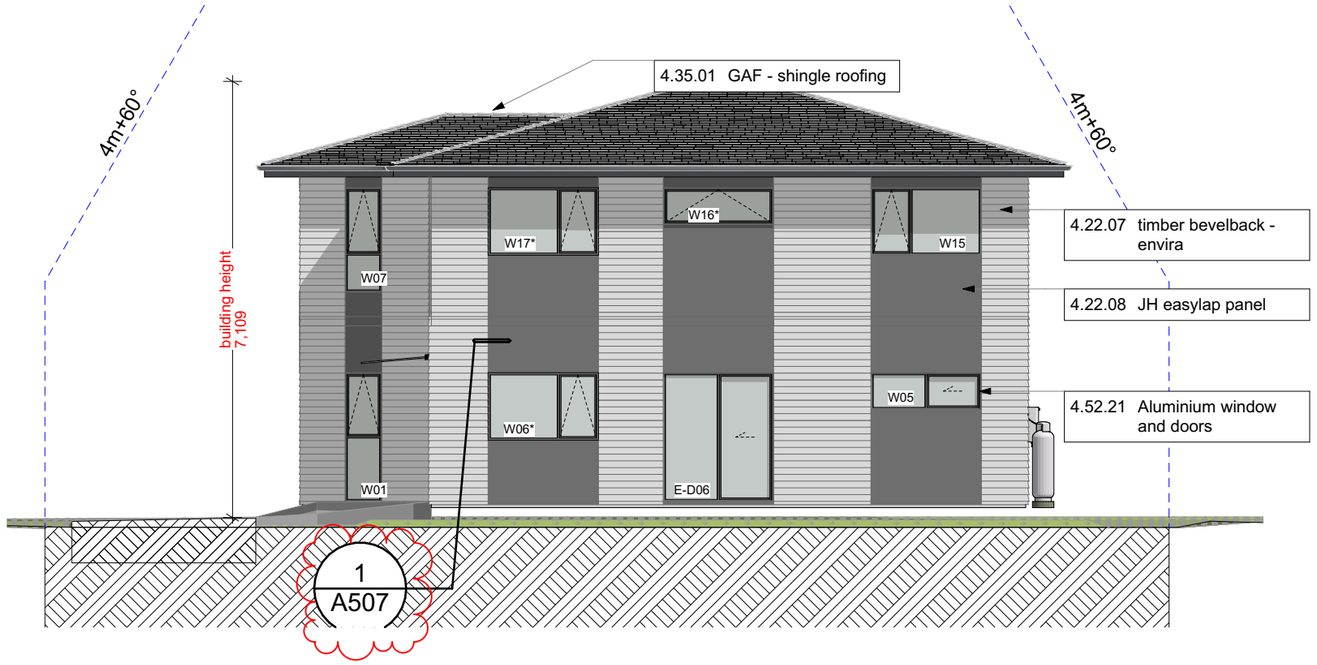
MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #PIn

DRAWING: **FIRE EGRESS ROUTE DIAGRAM**

DATE: 10/05/2023 DRAWN BY

SCALE AT A2: 1:100 DRAWING NO: **A205 -01**



BUILDING ENVELOPE RISK MATRIX		
West Elevation		
Risk Factor	**Risk Severity**	**Risk Score**
Wind zone (per NZS 3604)	Low risk	0
Number of storeys	High risk	2
Roof/wall intersection design	Low risk	0
Eaves width	Medium risk	1
Envelope complexity	Medium risk	1
Deck design	Low risk	0
Total Risk Score:		**4**

2 West Elevation 1:100

BUILDING ENVELOPE RISK MATRIX		
North Elevation		
Risk Factor	**Risk Severity**	**Risk Score**
Wind zone (per NZS 3604)	Low risk	0
Number of storeys	High risk	2
Roof/wall intersection design	Low risk	0
Eaves width	Medium risk	1
Envelope complexity	Medium risk	1
Deck design	Low risk	0
Total Risk Score:		**4**

1 North Elevation 1:100

Notes

4.00.00 Enclosure

0

4.22.07 **timber bevelback -envira**
Niagara 187x18mm bevelback weatherbaord on cavity system, on building wrap, fix with hot dipped galv. 75x3.15 JH nail to framing, acrylic paint 6-Finish, colour , (LRV requirement as per manf. Spec)

4.22.08 **JH easylap panel**
9mm James hardie easylap panel install to manf. spec. acrylic paint finish. colour: resene element

4.35.01 **GAF - shingle roofing**
GAF asphalt shingles fixed to 15mm plywood substrate with stainless steel or HDG clouts and Holdfast blackjack roof cement, underlay use #15 udnerlayment or D226+ roof wrap at roof pitches greater than 12°. As per manf. Spec.

4.52.21 **Aluminium window and doors**
Aluminium window and doors, refer to Joinery schedules for type and size and 6-Finish.

- **-**

4 **sectional garage door**

4.21.01 **Vertical Shiplap**

5 **glass awning**

ID	Description	Date
02	RFI	4/05/2023

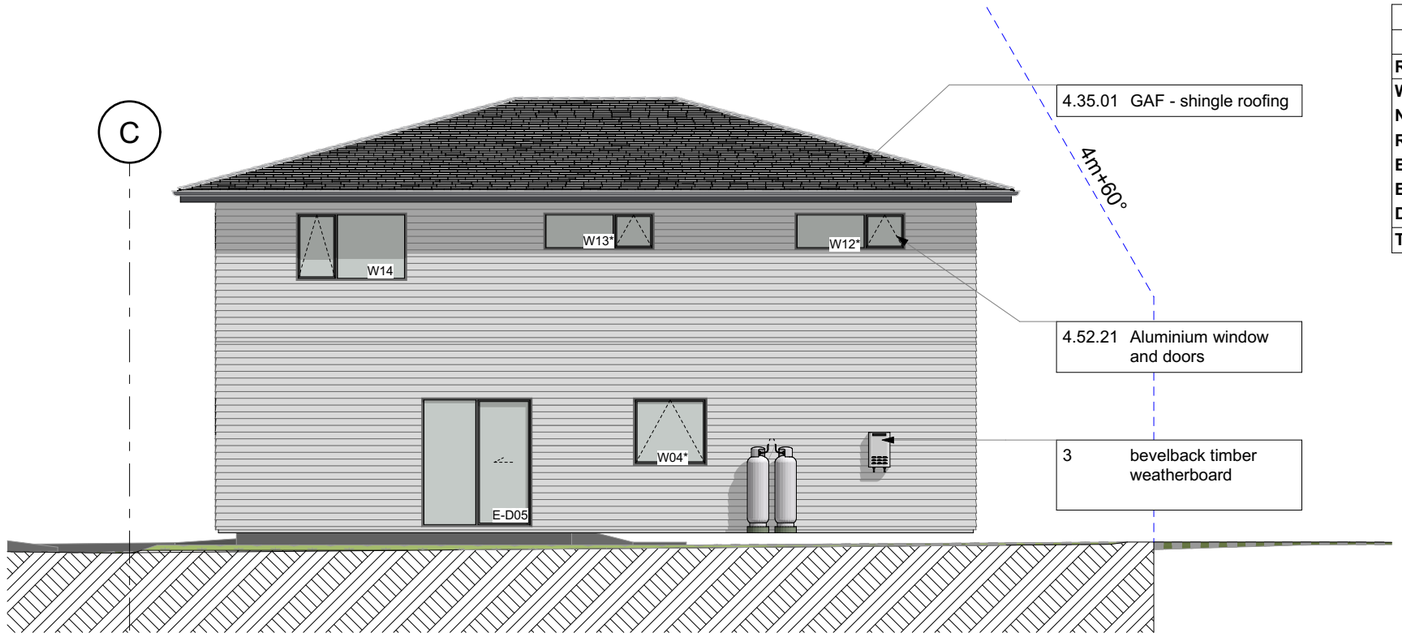
MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #PIn

DRAWING: **ELEVATIONS**

DATE: 10/05/2023 | DRAWN BY

SCALE AT A2: 1:100 | DRAWING NO: **A301 -01**



1 South Elevation 1:100

BUILDING ENVELOPE RISK MATRIX		
South Elevation		
Risk Factor	**Risk Severity**	**Risk Score**
Wind zone (per NZS 3604)	Low risk	0
Number of storeys	High risk	2
Roof/wall intersection design	Low risk	0
Eaves width	Medium risk	1
Envelope complexity	Low risk	0
Deck design	Low risk	0
Total Risk Score:		**3**

Notes

4.00.00 Enclosure

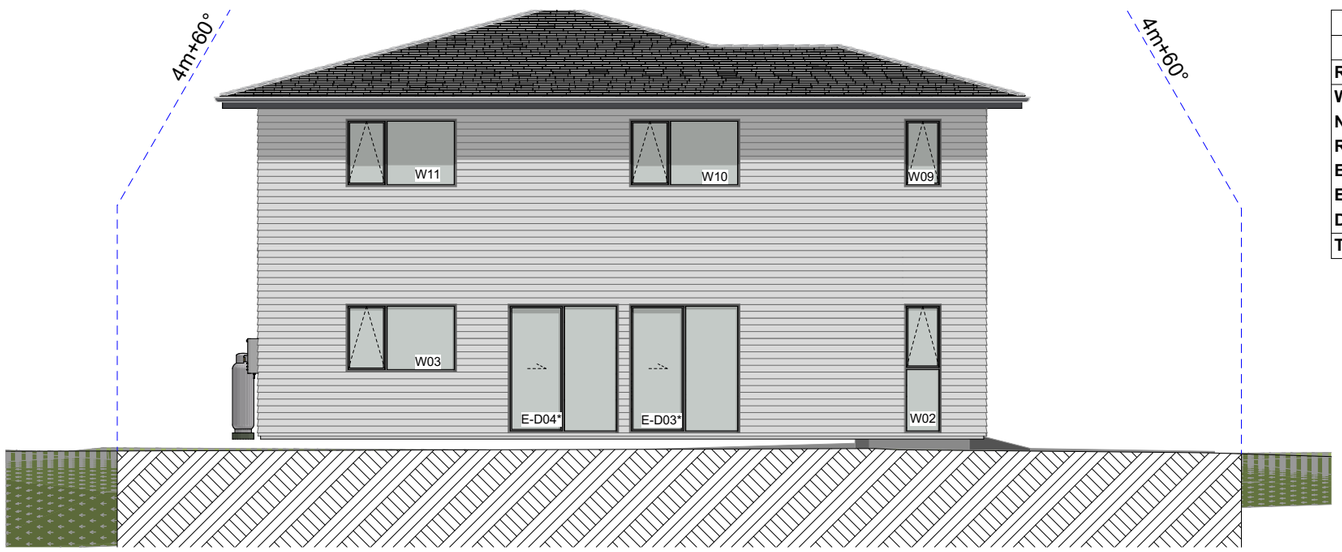
0

4.35.01 **GAF - shingle roofing**
GAF asphalt shingles fixed to 15mm plywood substrate with stainless steel or HDG clouts and Holdfast blackjack roof cement, underlay use #15 udnerlayment or D226+ roof wrap at roof pitches greater than 12°. As per manf. Spec.

4.52.21 **Aluminium window and doors**
Aluminium window and doors, refer to Joinery schedules for type and size and 6-Finish.

\- -

3 **bevelback timber weatherboard**



2 East Elevation 1:100

BUILDING ENVELOPE RISK MATRIX		
East Elevation		
Risk Factor	**Risk Severity**	**Risk Score**
Wind zone (per NZS 3604)	Low risk	0
Number of storeys	High risk	2
Roof/wall intersection design	Low risk	0
Eaves width	Medium risk	1
Envelope complexity	Low risk	0
Deck design	Low risk	0
Total Risk Score:		**3**

ID	Description	Date
03	DE RFI	10/05/2023

MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #PIn

DRAWING: **ELEVATIONS**

DATE: 10/05/2023 | DRAWN BY

SCALE AT A2: 1:100 | DRAWING NO: **A302 -03**

All Openings Schedule

Full Element ID	Related Zone Name	Sill height	W x H Size	Head height	Area	Quantity	Rebate	Hardware	Restrictor
Home Story Name Ground Floor									
E-D02	Dining	0	2,400×2,100	2,100	5.04	1			
E-D03	Dining	0	1,800×2,100	2,100	3.78	1			
E-D04	Dining	0	1,800×2,100	2,100	3.78	1			
E-D05	Bedroom	0	1,800×2,100	2,100	3.78	1			
E-D06	Garage	0	1,800×2,100	2,100	3.78	1			
W01	Dining	0	600×2,100	2,100	1.26	1			
W02	Dining	0	600×2,100	2,100	1.26	1			
W03	Kitchen	1,000	1,800×1,100	2,100	1.98	1			
W04	Scullery	1,000	1,200×1,100	2,100	1.32	1			
W05	Bathroom	1,500	1,800×600	2,100	1.08	1			
W06	Garage	1,000	1,800×1,100	2,100	1.98	1			
					29.04 m²	11			
Home Story Name First Floor									
W07	Living	400	600×1,700	2,100	1.02	1			
W08	Living	400	2,400×1,700	2,100	4.08	1			
W09	Living	1,000	600×1,100	2,100	0.66	1			
W10	Bedroom	1,000	1,800×1,100	2,100	1.98	1			
W11	Bedroom	1,000	1,800×1,100	2,100	1.98	1			
W12	Bedroom	1,500	1,800×600	2,100	1.08	1			
W13		1,500	1,800×600	2,100	1.08	1			
W14		1,000	1,800×1,100	2,100	1.98	1			
W15	Bed	1,000	1,800×1,100	2,100	1.98	1			
W16	Bathroom	1,500	1,800×600	2,100	1.08	1			
W17	Bedroom	1,000	1,800×1,100	2,100	1.98	1			
W18	Bedroom	400	600×1,700	2,100	1.02	1			
W19	Bedroom	400	600×1,700	2,100	1.02	1			
W20		400	600×1,700	2,100	1.02	1			
					21.96 m²	14			
					51.00 m²	25			

All Openings Schedule

Full Element ID	Related Zone Name	Area	Quantity	Sill height	W x H Size	Head height	Rebate	Hardware
Home Story Name Ground Floor								
E-D01		2.87	1	0	1,330×2,160	2,160		
E-D07	Garage	11.66	1	0	5,400×2,160	2,160		
I-D01	Kitchen	1.64	1	0	810×2,025	2,025		
I-D02	Bedroom	1.64	1	0	810×2,025	2,025		
I-D03	Store	3.08	1	0	1,520×2,025	2,025		
I-D04	Bedroom	1.64	1	0	810×2,025	2,025		
I-D05		1.64	1	0	810×2,025	2,025		
I-D06	Garage	1.84	1	0	910×2,025	2,025		
I-D07	Garage	1.08	1	0	810×1,333	1,333		
		27.09 m²	9					
Home Story Name First Floor								
ID18	Bedroom	1.64	1	0	810×2,025	2,025		
I-D08		2.03	1	0	1,000×2,025	2,025		
I-D09	Bedroom	1.64	1	0	810×2,025	2,025		
I-D10	Bedroom	3.50	1	0	1,726×2,025	2,025		
I-D11	WD	3.50	1	0	1,726×2,025	2,025		
I-D12	Pray	1.64	1	0	810×2,025	2,025		
I-D13	Bed	1.64	1	0	810×2,025	2,025		
I-D14	Bed	1.64	1	0	810×2,025	2,025		
I-D15	Bed	4.39	1	0	2,170×2,025	2,025		
I-D16	Bathroom	1.64	1	0	810×2,025	2,025		
I-D17	WD	1.15	1	0	570×2,025	2,025		
I-D19	Bedroom	3.75	1	0	1,850×2,025	2,025		
I-D20		1.64	1	0	810×2,025	2,025		
I-D21	WD	2.42	1	0	1,196×2,025	2,025		
I-D22	WD	2.42	1	0	1,196×2,025	2,025		
		34.64 m²	15					
		61.73 m²	24					

ID	Description	Date
03	DE RFI	10/05/2023

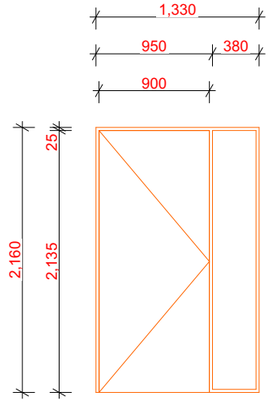
MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #PIn

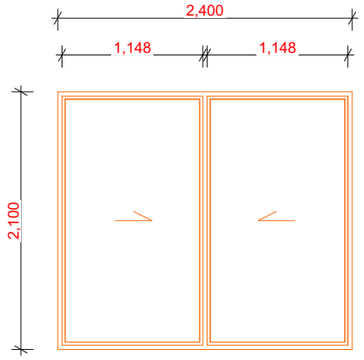
DRAWING: **WINDOW & DOOR SCHEDULE**

DATE: 10/05/2023 | DRAWN BY: S.Z

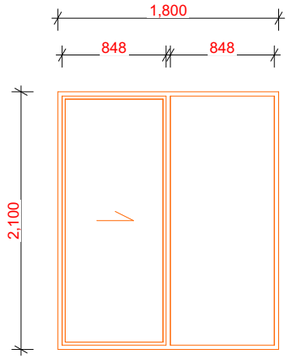
SCALE AT A2: 1:1 | DRAWING NO: **A303 -03**



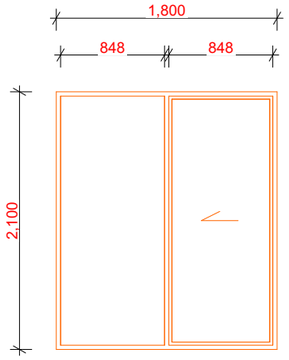
E-D01



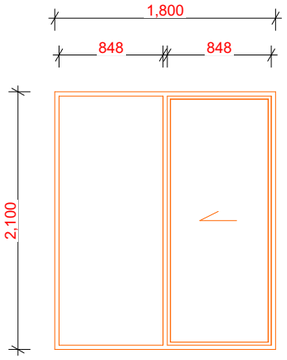
E-D02



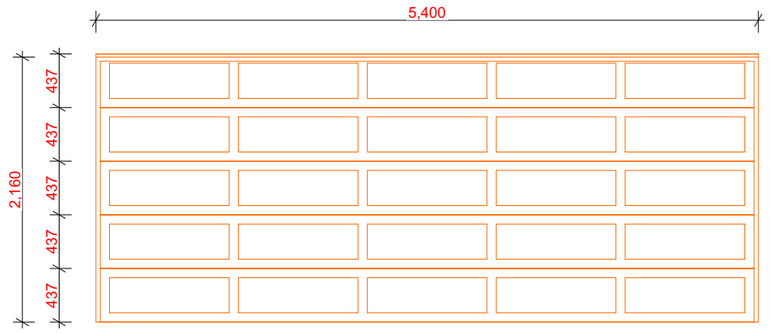
E-D03, E-D04



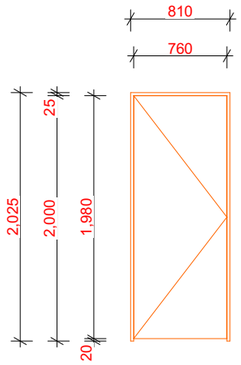
E-D05



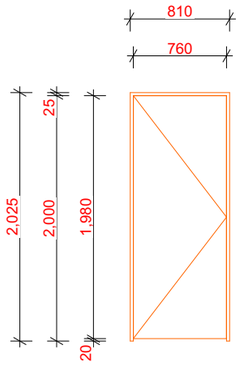
E-D06



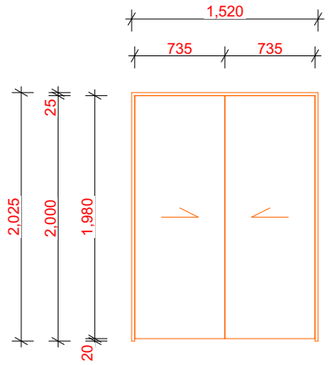
E-D07



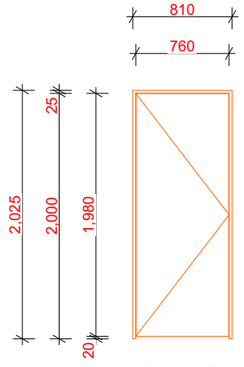
I-D01



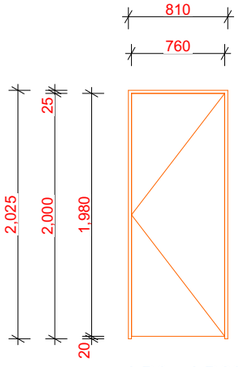
items as shown (I-D02, I-D09); item handed (ID18)



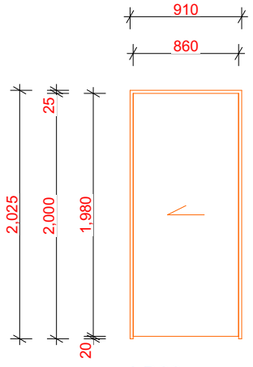
I-D03



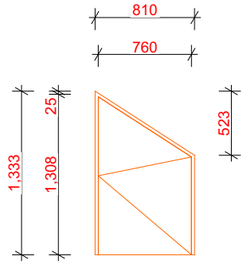
I-D04, I-D16



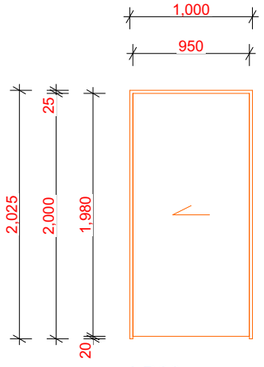
I-D05, I-D20



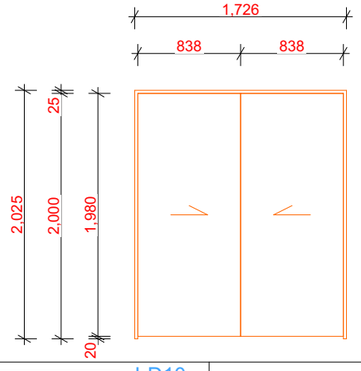
I-D06



I-D07



I-D08



I-D10

JOINERY AND SAFETY GLASS NOTES

1. All aluminium joinery with double glazing R0.26.
2. Selected garage door confirm with owner
3. Safety glazing refer NZS 4223.2016.
4. Grade A safety glazing to all showers and overhead glazing.
5. All sliding door are to be safety glazing both sides of IGU as no vision rails
6. Entry sidelite to be safety glass both sides of IGU as it is wider than 500mm.

ID	Description	Date
03	DE RFI	10/05/2023

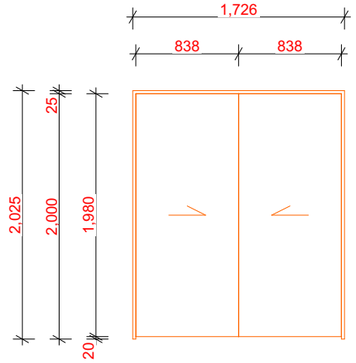
MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #PIn

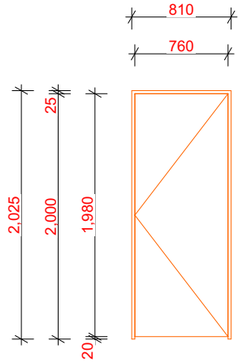
DRAWING: **WINDOW & DOOR LEGEND**

DATE: 10/05/2023 | DRAWN BY: S.Z

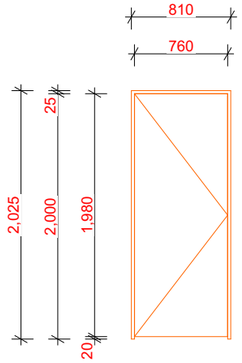
SCALE AT A2: 1:50 | DRAWING NO: **A304 -03**



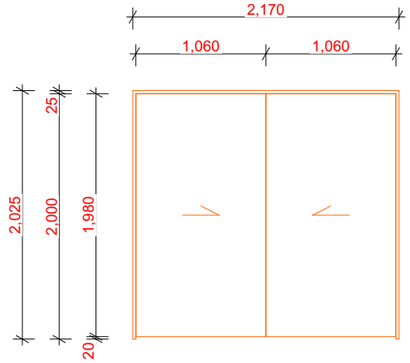
I-D11



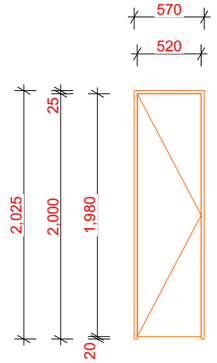
I-D12



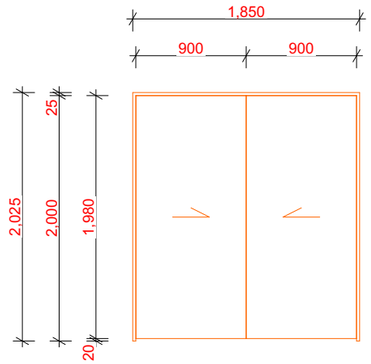
item as shown (I-D13); item handed (I-D14)



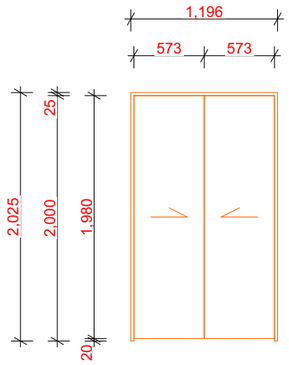
I-D15



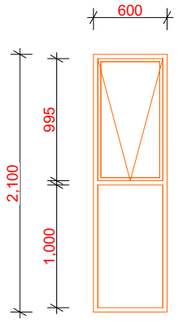
I-D17



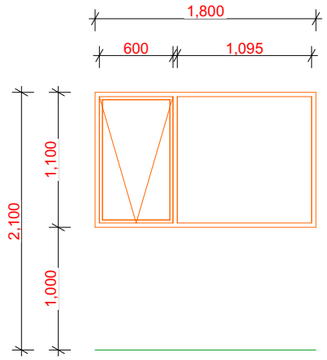
I-D19



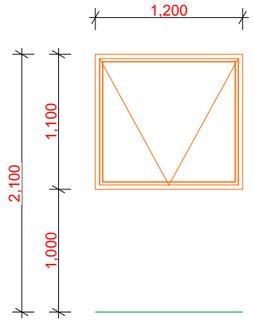
item as shown (I-D21); item handed (I-D22)



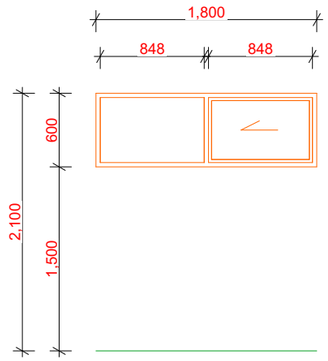
W01, W02



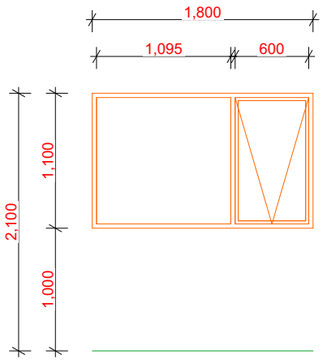
W03



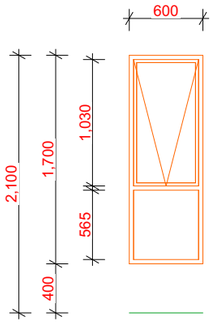
W04



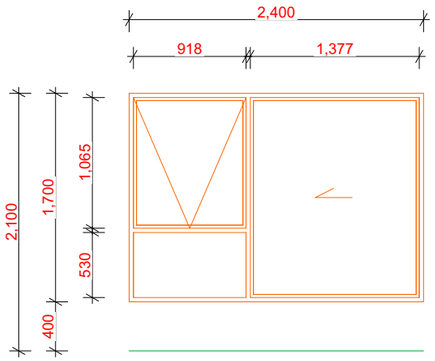
W05



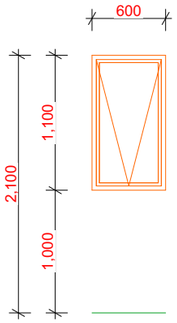
W06



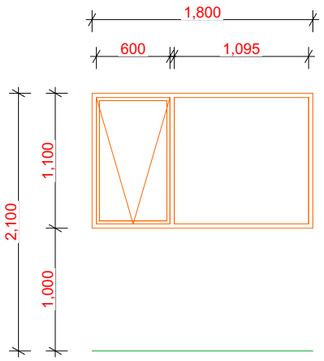
W07



W08



W09



W10, W11

JOINERY AND SAFETY GLASS NOTES

1. All aluminium joinery with double glazing R0.26.
2. Selected garage door confirm with owner
3. Safety glazing refer NZS 4223.2016.
4. Grade A safety glazing to all showers and overhead glazing.
5. All sliding door are to be safety glazing both sides of IGU as no vision rails
6. Entry sidelite to be safety glass both sides of IGU as it is wider than 500mm.

ID	Description	Date
03	DE RFI	10/05/2023

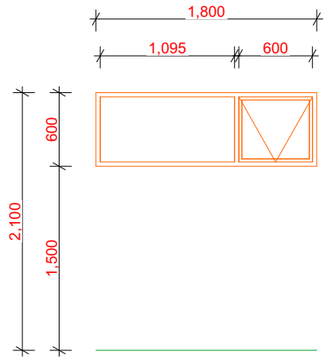
MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #PIn

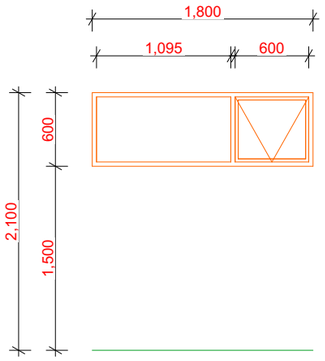
DRAWING: **WINDOW & DOOR LEGEND**

DATE: 10/05/2023 | DRAWN BY: S.Z

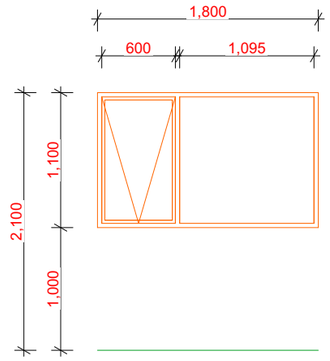
SCALE AT A2: 1:50 | DRAWING NO: **A305 -03**



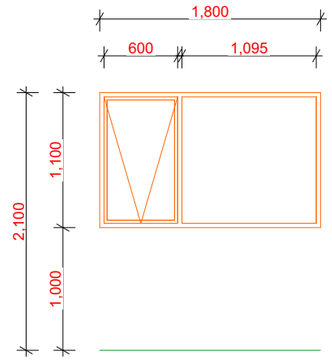
W12



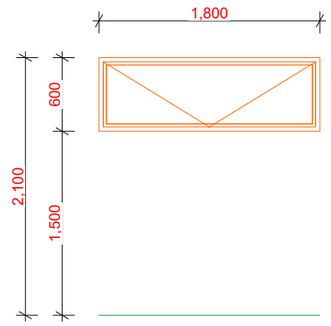
W13



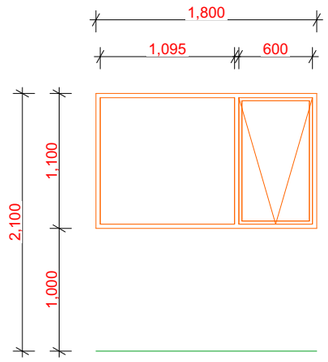
W14



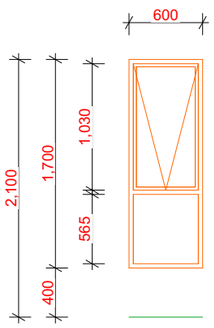
W15



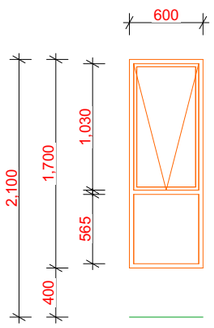
W16



W17



W18, W19



W20

JOINERY AND SAFETY GLASS NOTES

1. All aluminium joinery with double glazing R0.26.
2. Selected garage door confirm with owner
3. Safety glazing refer NZS 4223.2016.
4. Grade A safety glazing to all showers and overhead glazing.
5. All sliding door are to be safety glazing both sides of IGU as no vision rails
6. Entry sidelite to be safety glass both sides of IGU as it is wider than 500mm.

ID	Description	Date
03	DE RFI	10/05/2023

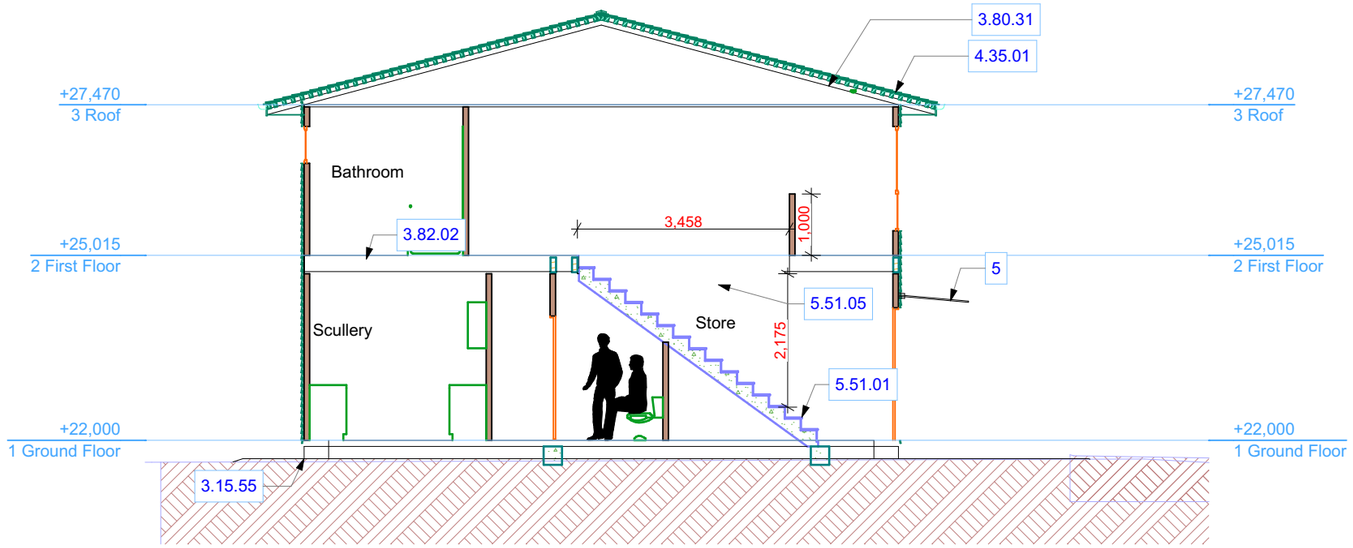
MULU DESIGN WORKSHOP
m: 02102600189
e: muludesignworkshop@gmail.com
a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #Pln

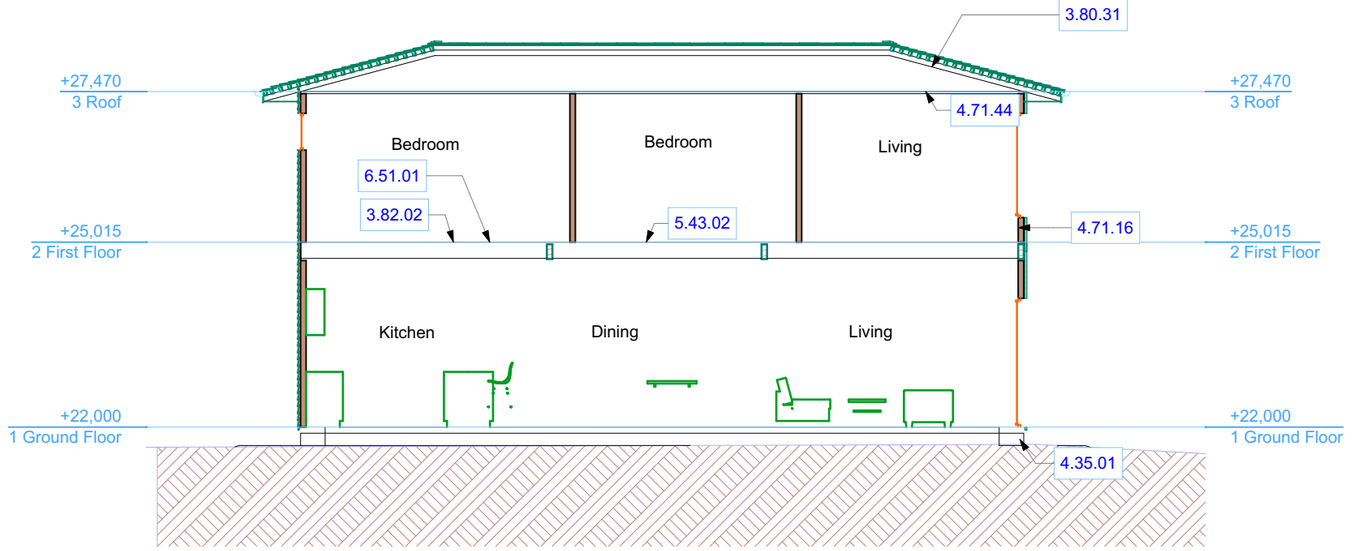
DRAWING: **WINDOW & DOOR LEGEND**

DATE: 10/05/2023 | DRAWN BY: S.Z

SCALE AT A2: 1:50 | DRAWING NO: **A306 -03**



2 Stair 1:100



1 LDK 1:100

Notes

3.15.55 **Raft slab system**
to engineer drawing, where plumbing penetration required through DPM, seal penetration as per DPM manufacture spec requirement.

3.80.31 **Roof framing -timber truss**
Timber truss @900crs. Fixing to wall plate refer to truss manf. spec for details. roof plane brace to engineer drawing, gable end brace to mitek "gable end bracing" specification

3.82.02 **Floor framing - upper level**
240x45 Timber floor joist, SG8 H1.2 treated, spacing to engineer drawing. Fixing as per NZS3604:2011, unless otherwise notified.

4.35.01 **GAF - shingle roofing**
GAF asphalt shingles fixed to 15mm plywood substrate with stainless steel or HDG clouts and Holdfast blackjack roof cement, underlay use #15 udnerlayment or D226+ roof wrap at roof pitches greater than 12°. As per manf. Spec.

4.71.16 **Insulation -external wall R2.8**
timber framing insulation: R2.8 90mm batts insulation to 90mm timber wall.

4.71.44 **insulation -truss**
fit R3.2 170mm batts insualtion over ceiling, install to manufactuere specification.

5.43.02 **Timber flooring - strandboard**
20mm HD particle board for dry 7-Service area,

5.51.01 **Main private stair**
Timber Stair: prefabricated solid timber stairs to comply with the requirements of D1/As1 for main private stair. Min. tread 280mm, max rise 190mm. All stairs to be have 50 dia painted pine handrail set 900mm above the pitch line of the stairs.

5.51.05 **handrail**
provide handrail continuous along stair path in accordance to D1/AS1, profile to D1/AS1 figure 26.

6.51.01 **Carpet**
selected carpet over underlay, installed as per manufacturer's specification. Selection TBC by client.

5 **glass awning**

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DRAWING: **SECTION 1**

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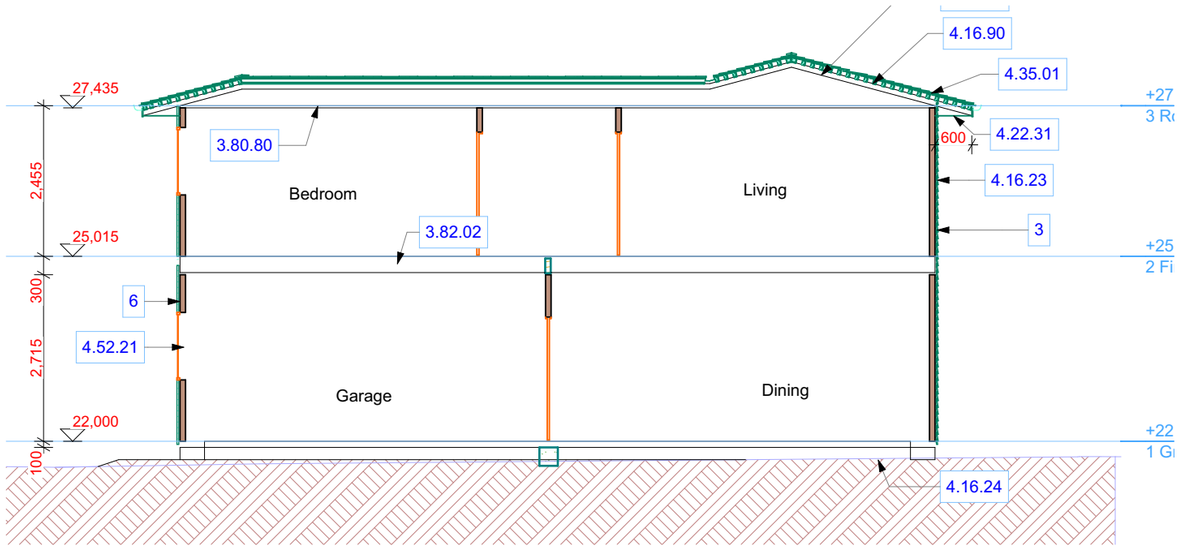
SCALE AT A2: 1:100 | DRAWING NO: **A401 -03**



1 Entry 1:100

Notes

3.80.31 **Roof framing -timber truss**
Timber truss @900crs. Fixing to wall plate refer to truss manf. spec for details. roof plane brace to engineer drawing, gable end brace to mitek "gable end bracing" specification

3.80.80 **ceiling batten 70x35**
70x35 timber ceiling battens @400crs with 10mm GIB lining. Merchant grade

3.82.02 **Floor framing - upper level**
240x45 Timber floor joist, SG8 H1.2 treated, spacing to engineer drawing. Fixing as per NZS3604:2011, unless otherwise notified.

4.16.23 **Building wrap -watergate plus 295**
fire retardant building wrap, thermakraft watergate plus 295, provide PE strip tight fix to stud where spacing over 400c/c in accordance to manf. Spec.

4.16.24 **DPM**
Thermakraft Black 250um Polythene film, or similar product

4.16.90 **Roof underlay -GAF shingle roof**
underlayment selected to suit project speicfic roof slope and wind zone, refer to manf. Spec for details.

4.22.31 **roof soffit -4.5mm**
hardie flex soffit lining, PVC joint jointing, S.S screw fix @200c/c to supporting elements @600crs. Max.

4.35.01 **GAF - shingle roofing**
GAF asphalt shingles fixed to 15mm plywood substrate with stainless steel or HDG clouts and Holdfast blackjack roof cement, underlay use #15 udnerlayment or D226+ roof wrap at roof pitches greater than 12°. As per manf. Spec.

4.52.21 **Aluminium window and doors**
Aluminium window and doors, refer to Joinery schedules for type and size and 6-Finish.

4.55.01 **Sectional garage door**
colour steel endura, 0.55BMT, with integrated insulation kit to cavity of sectional sheet panel. Silent operated motor with remote control. refer to architectural oplan for recesses, dimensions and levels only. c.o.s rebate size with garage door manufacturer and installer prior to rebate installation.

4.71.16 **Insulation -external wall R2.8**
timber framing insulation: R2.8 90mm batts insulation to 90mm timber wall.

4.71.44 **insulation -truss**
fit R3.2 170mm batts insualtion over ceiling, install to manufactuere specification.

5.23.30 **Internal Door -hinged**
Internal Door, type: Hollow core, 6-Finish: acrylic paint.

5.23.31 **Internal Door -wardrobe slider**
double top hang hollow core panel, paint 6-Finish

5.43.02 **Timber flooring - strandboard**
20mm HD particle board for dry 7-Service area,

6.22.01 **WPM general**
Only use approved Finish systems from individual coatings manufactueres.

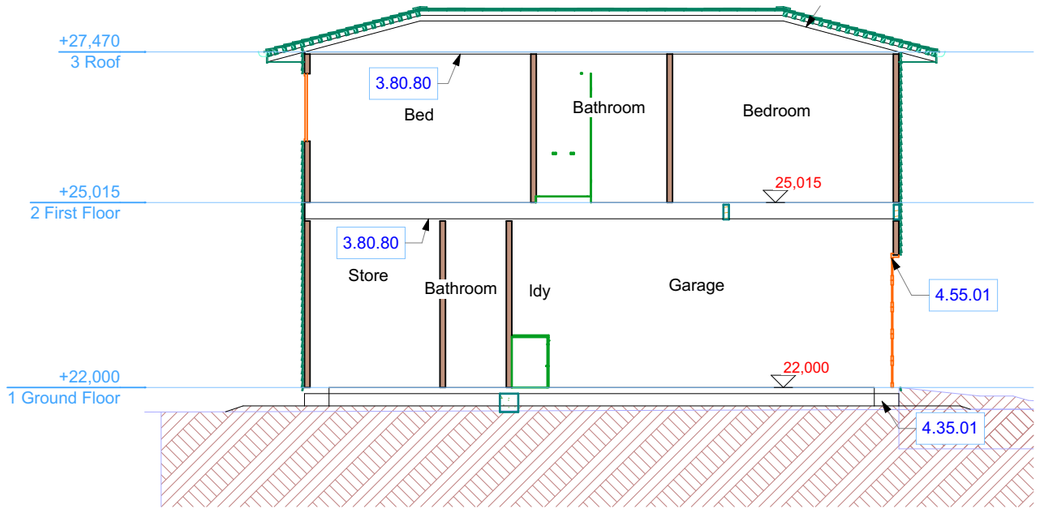
6.22.04 **tile underlay -wetarea**
James Hardie 6mm un fibrecement sheet, fix annullar threaded nail

6.22.05 **Bostic -ASA dampfix**
apply ASA dampfix gol membrane to wet area Spec.

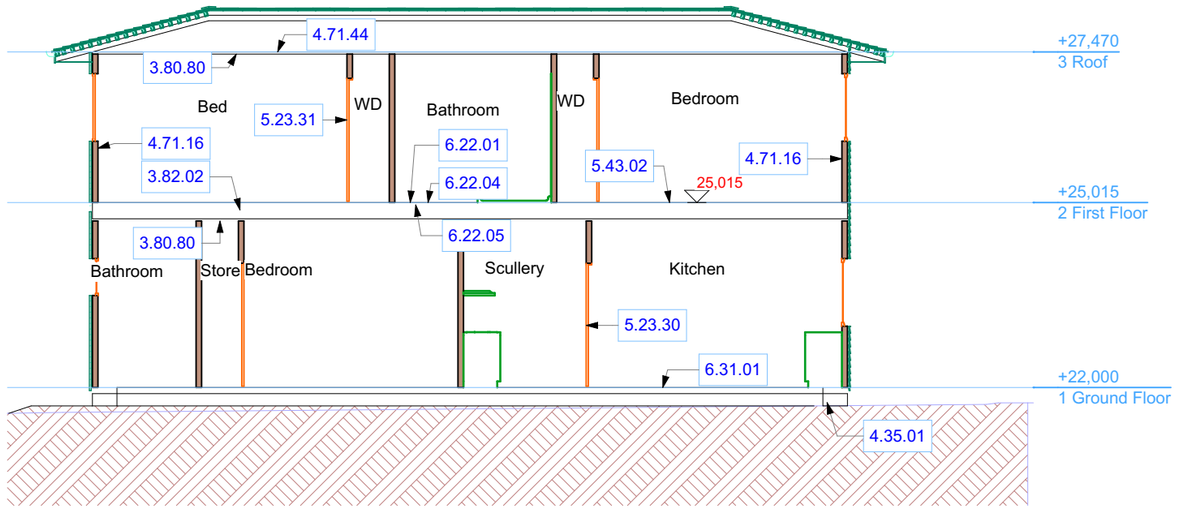
6.31.01 **laminated flooring -g**
selected Laminated flo glue fix over levelling

3 **bevelback timber wea**

6 **Brick Veneer**
Selected 70mm Series Veneer Cladding



2 Garage 1:100



3 Kitchen 1:100

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DRAWING: **SECTION 2**

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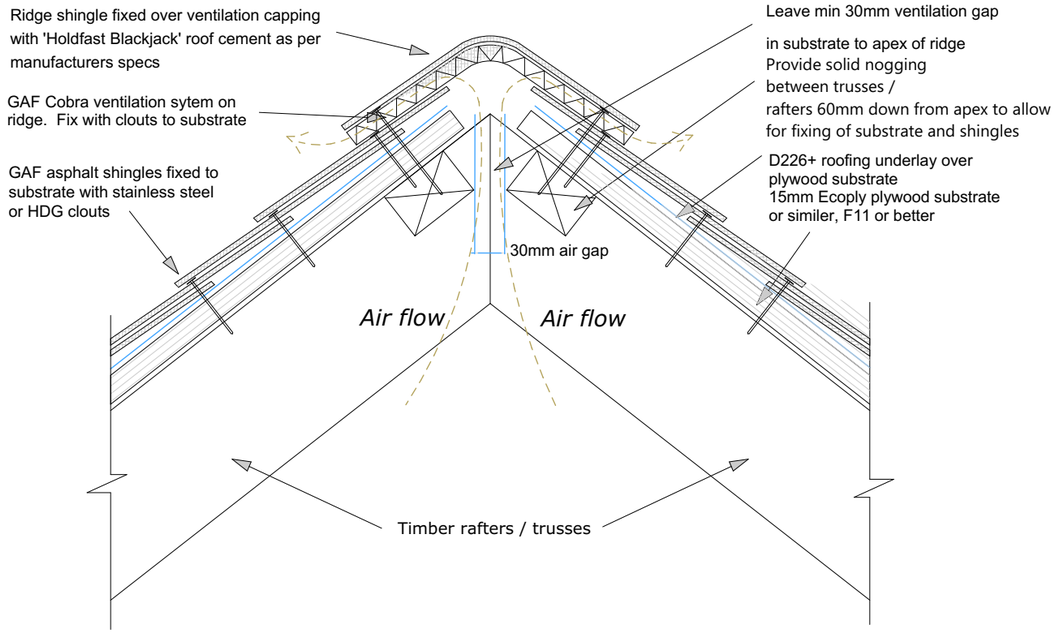
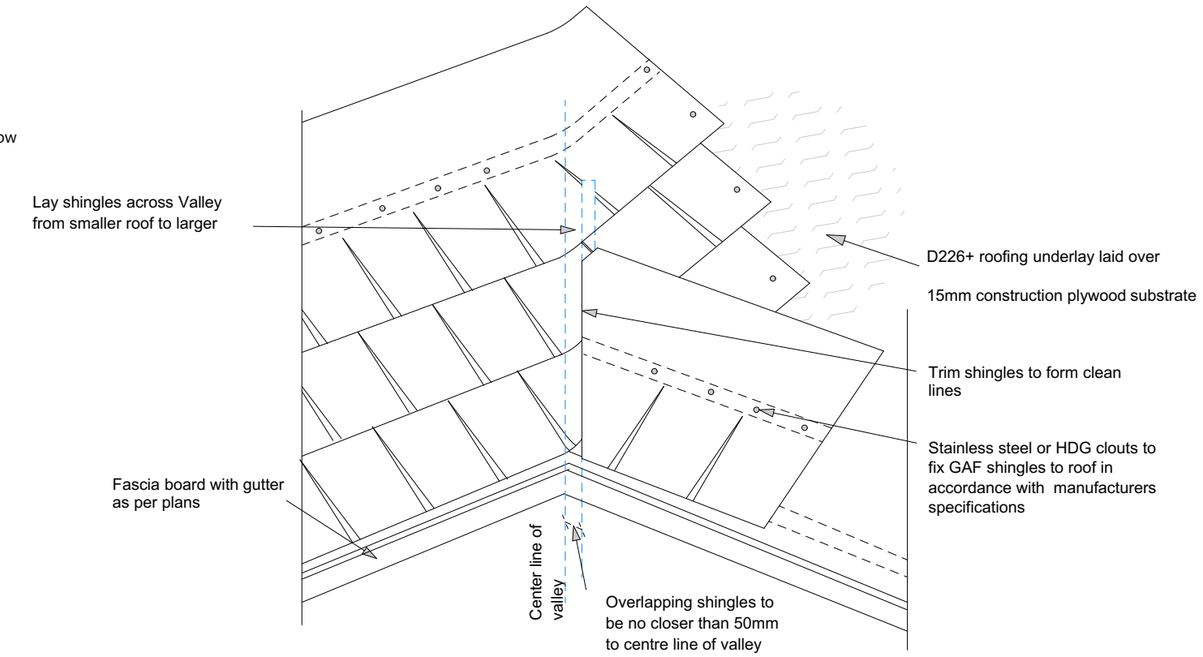


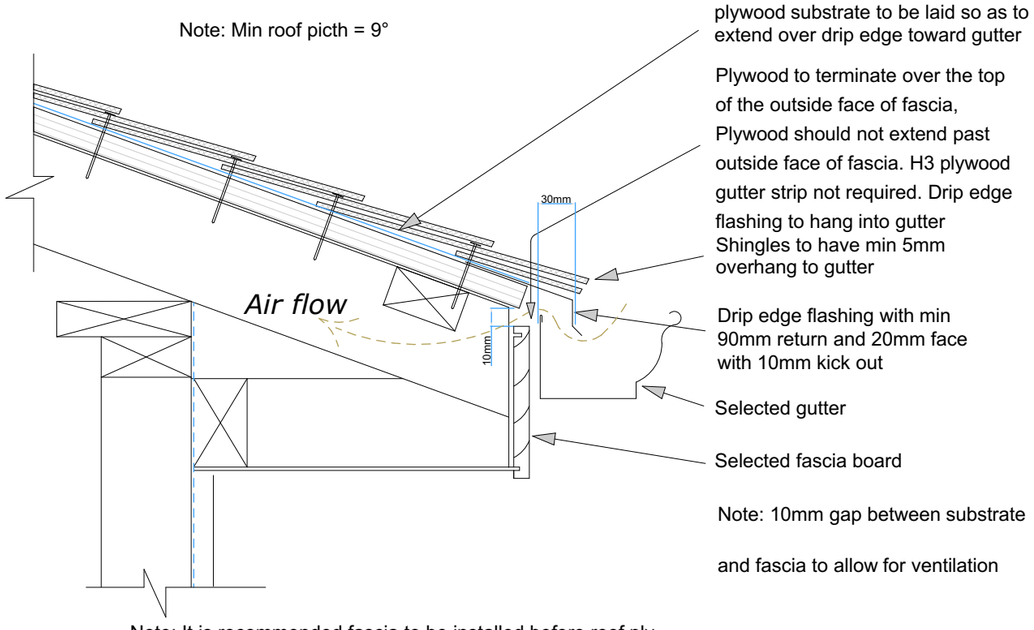
GAF Asphalt Shingles
Detail 08 - Ridge cladding



GAF Asphalt Shingles
Detail 24 - Valley cladding (NTS)

4	Roof Ridge	Roof Valley
-	1:5	1:5

Note: Min roof picth = 9°



Note: It is recommended fascia to be installed before roof ply

GAF Asphalt Shingles
Detail 03 - Eave Detail (NTS)

4	Roof Eave	1	Soffit Wall -eave -bevelback
-	1:5	-	1:5

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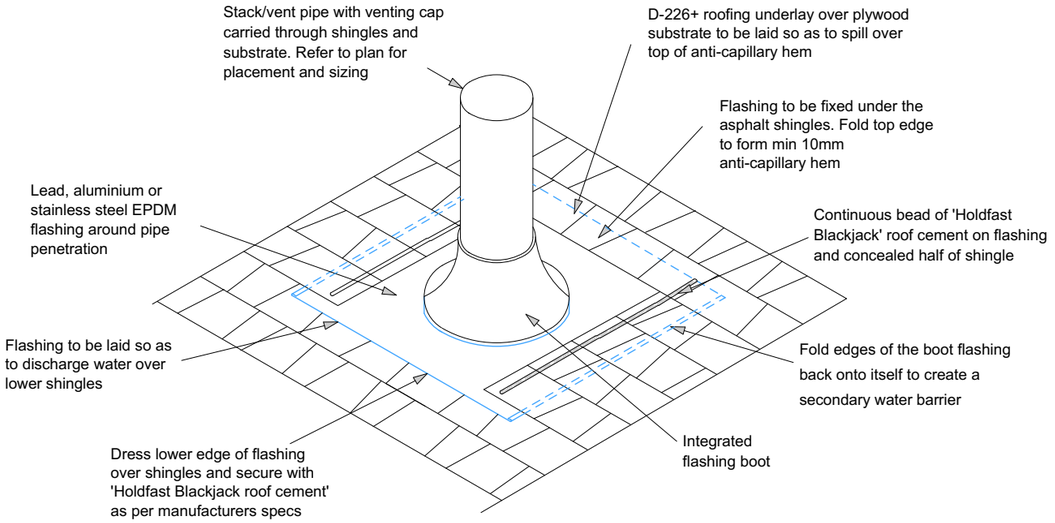
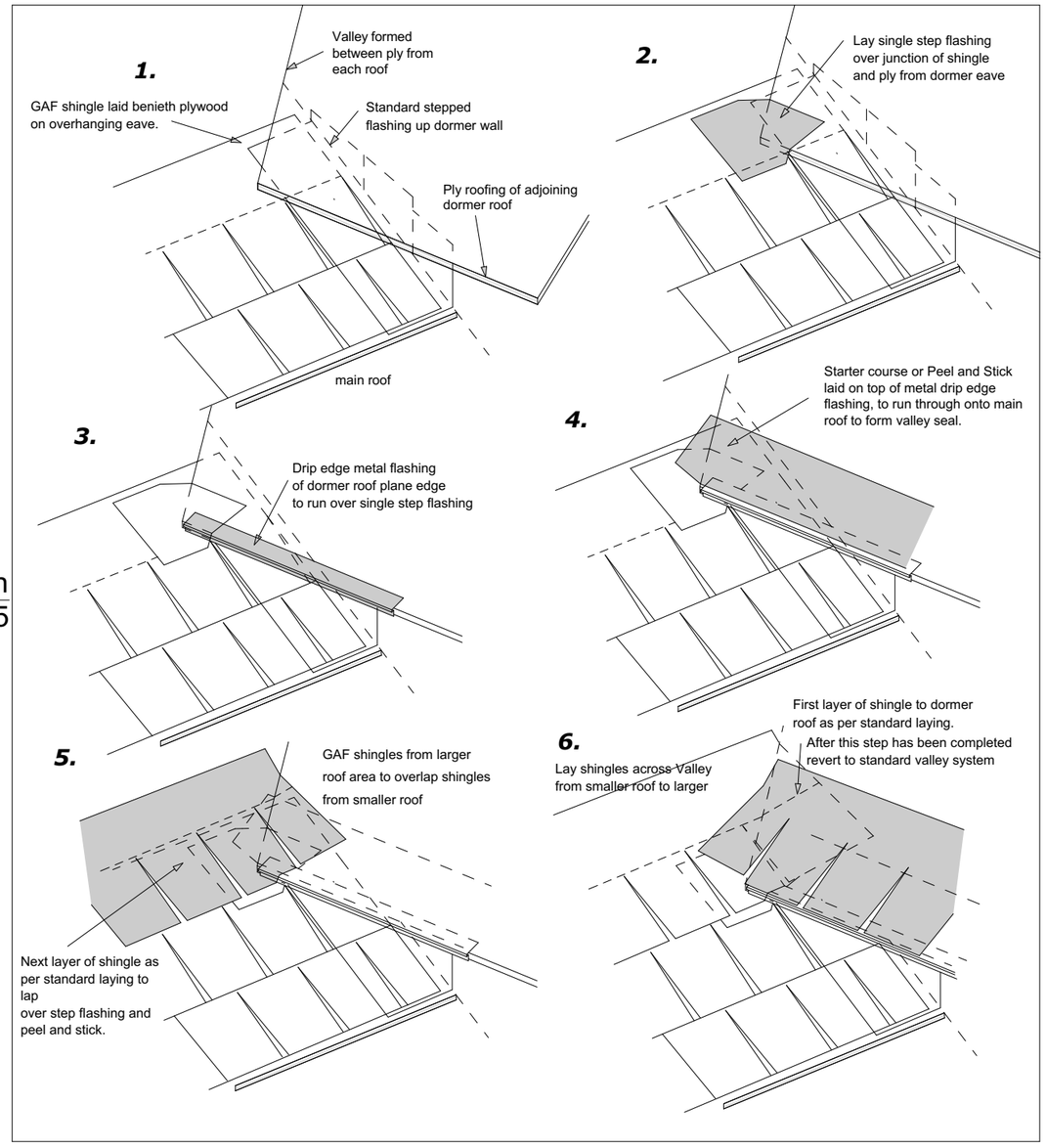
A501	03



GAF Asphalt Shingles
Detail 22 - Pipe penetration (NTS)

4
-

Roof Vent penetration
1:5



GAF Asphalt Shingles
Detail 20 - Valley to dormer (NTS)
Step by step method 1-6

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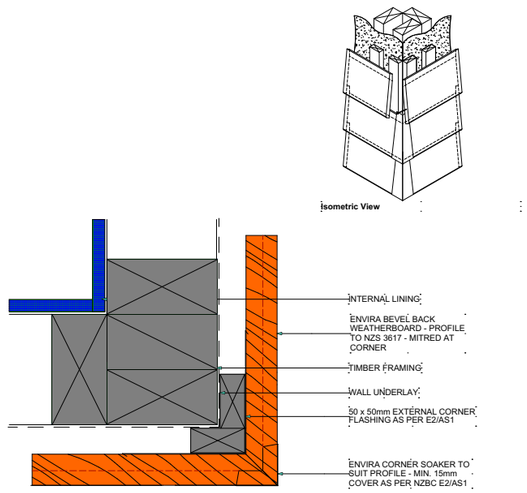
A502	03

2
-

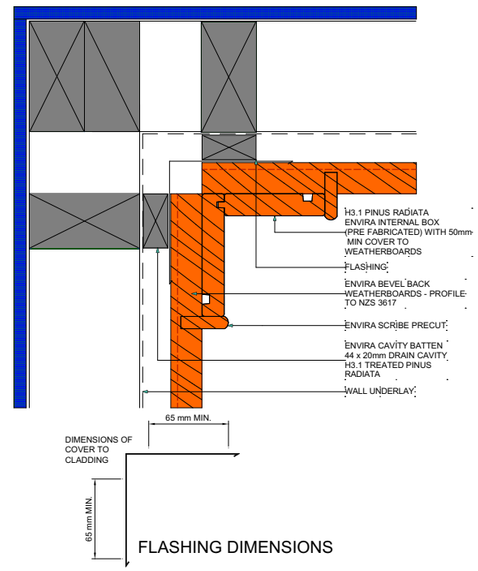
Soffit Wall - Eave - sheet panel
1:5

3
-

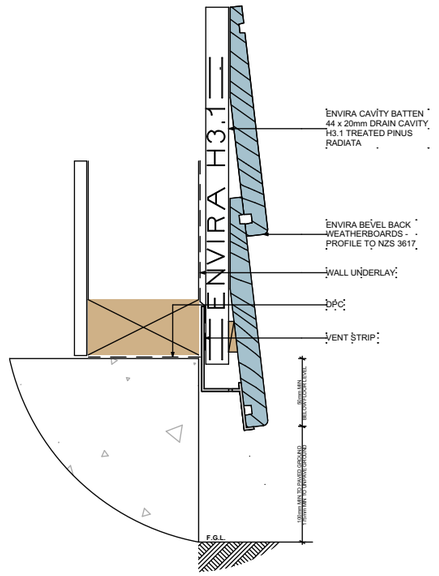
Roof Ridge 3D Junction
1:5



4 - Bevelback External Corner 1:5



3 - Bevelback Internal Corner 1:5



2 - Bevelback/Eazylap Vertical Junction 1:5

1 - bevelback - bottom to concrete 1:5

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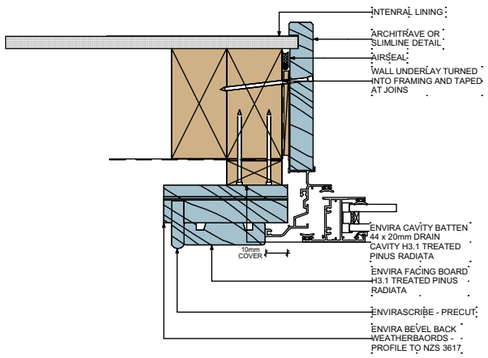
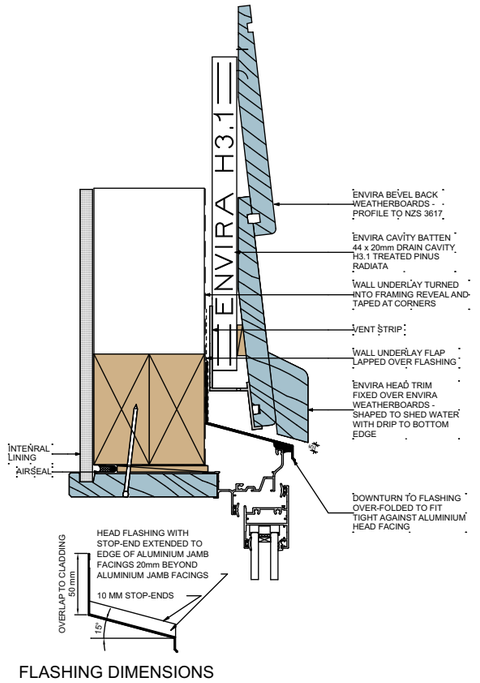
A503	03

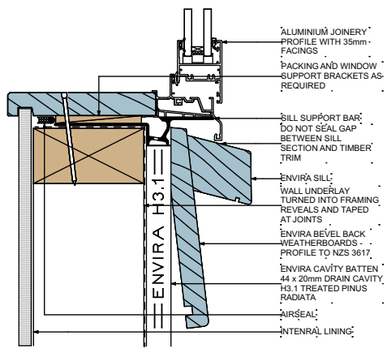


4 | - | Window Jamb - bevelback 1:5

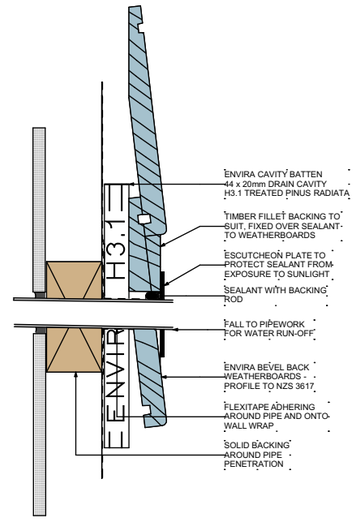


FLASHING DIMENSIONS

3 | - | Window Head -bevelback 1:5



2 | - | Window Sill - bevelback 1:5



1 | - | bevelback - Duct penetration 1:5

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DRAWING: DETAILS -CLADDING 1

DATE:	SCALE AT A3:
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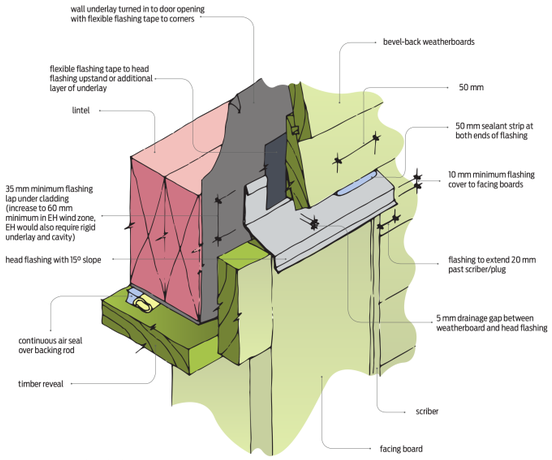
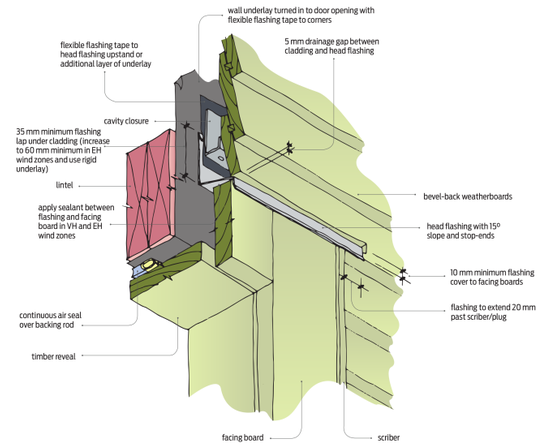


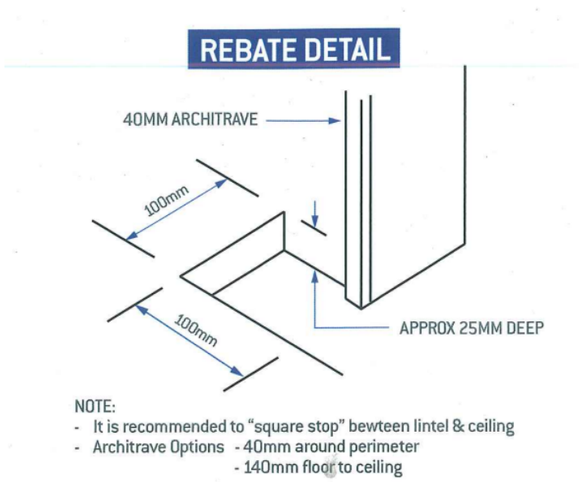
Note: Garage door not shown for clarity.

4 | - | Garage Door Head | 1:5



Note: Garage door not shown for clarity.

3 | - | Garage Door Jamb | 1:5



2 | - | Garage Door Sill | 1:5

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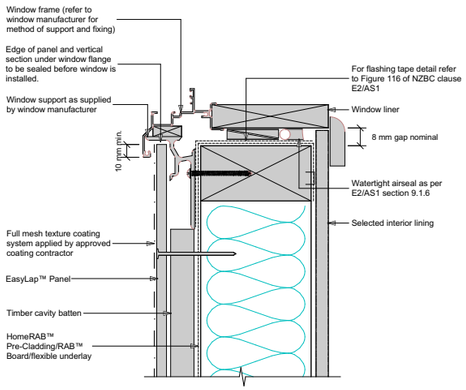
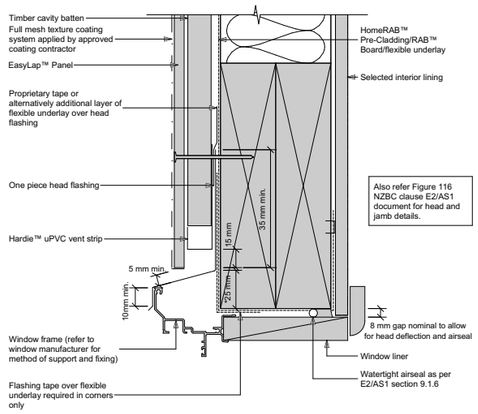
A505	03



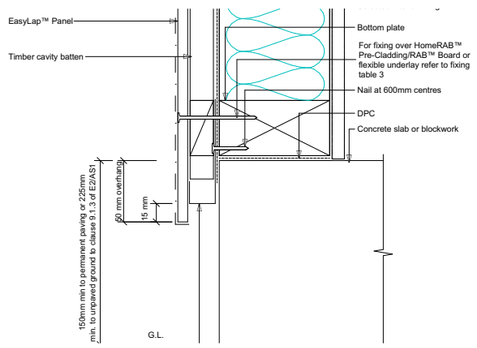
Notes: Flashing tape must be compatible with the selected flexible underlay and sealants as per the NZBC clause E2/AS1

4 - Window Sill - panel 1:5

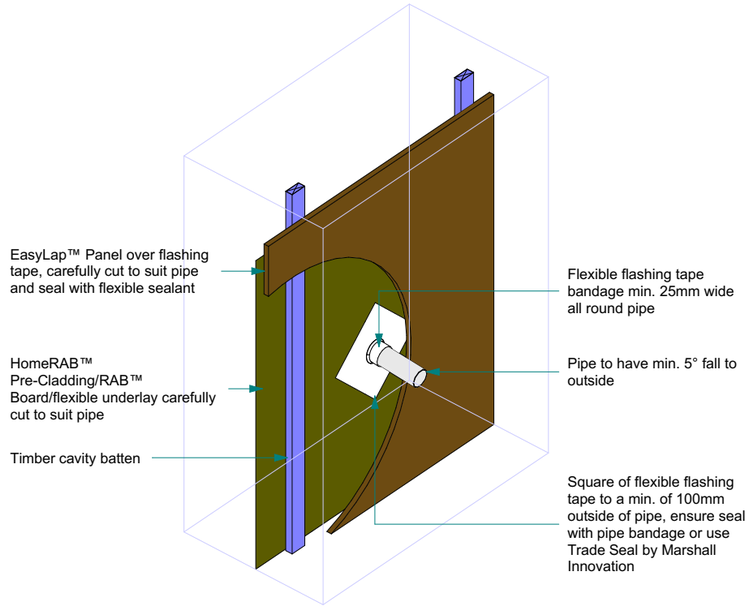


Note: Flashing materials to be selected as per the requirements of E2/AS1.
Sealant required between head flashing and joinery flange in VH and above wind zones

3 - Window Head - panel 1:5



2 - sheet panel - bottom to concrete 1:5



Note: Site cut edges to be primed

1 - Sheet Panel - Duct penetration 1:5

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DRAWING: DETAILS -CLADDING 2

DATE:	SCALE AT A3:
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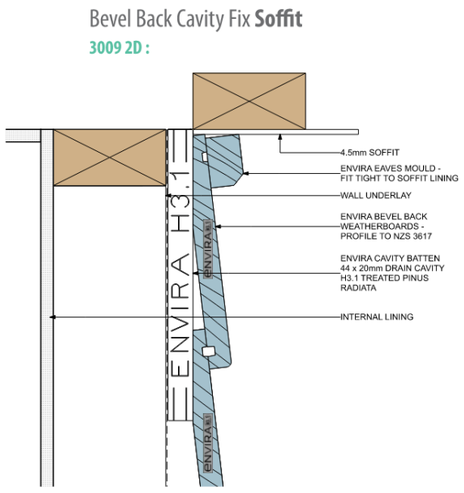
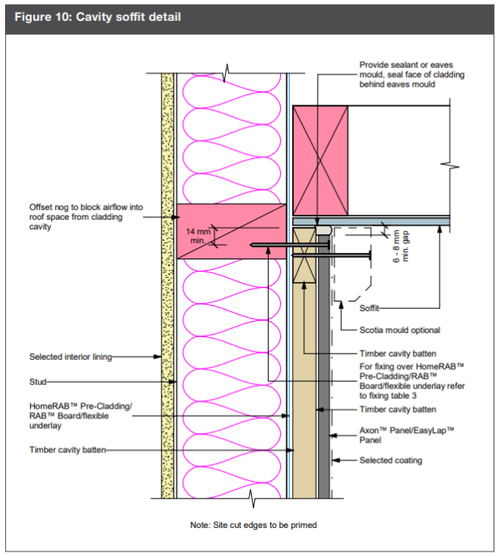
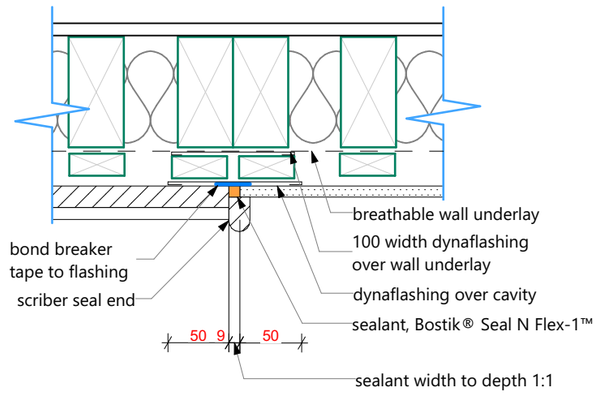
DRAWING NO: A506	REVISION: 03



4 Soffit Wall -eave -bevelback 1:5



2 soffit wall -eave easylap 1:5



1 vertical junction bevelback/eazylap 1:5

Rev	Description	Date
02	RFI	4/05/2023

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DRAWING: DETAILS -CLADDING

DATE:	SCALE AT A3:
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A507	01

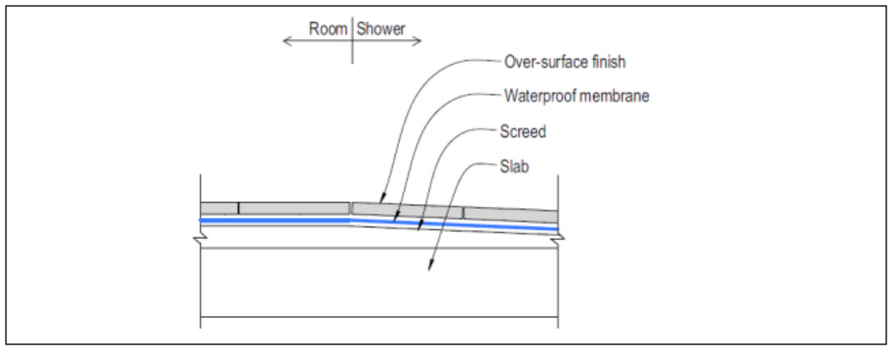

Figure 24: Typical tiled shower area with no hob

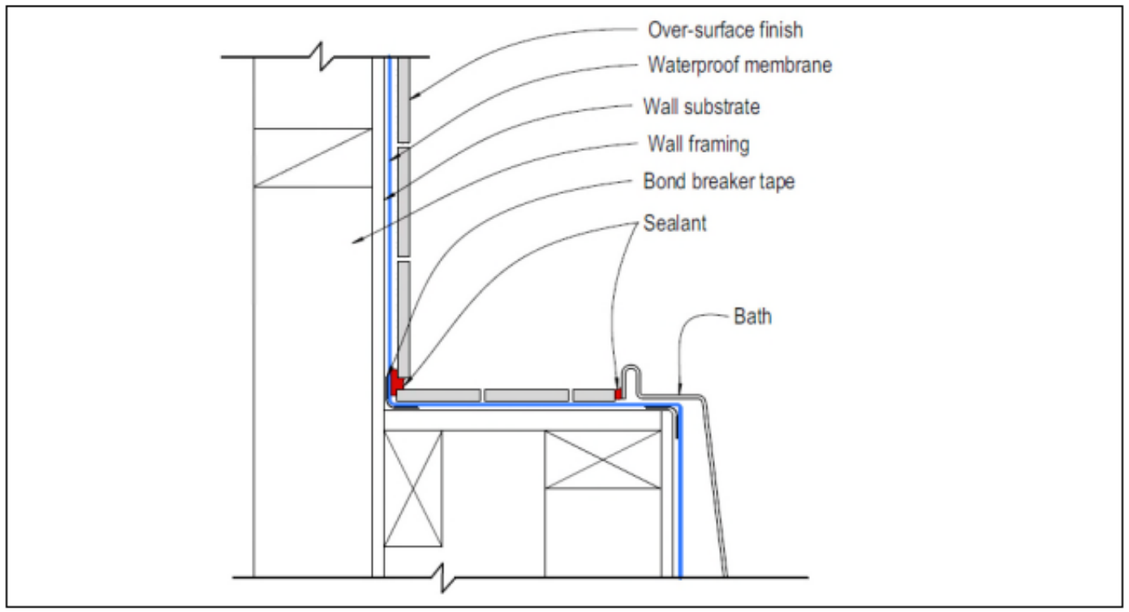

Figure 34: Bath with tiled surround

4	shower floor junction	3	Bathtub surround
-	1:5	-	1:5

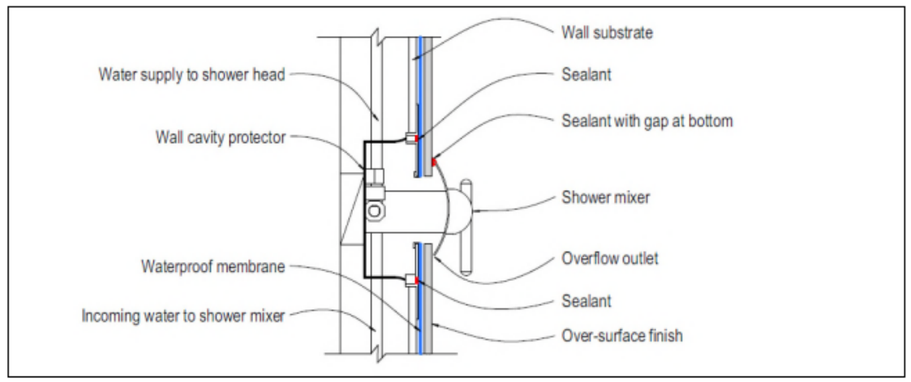

Figure 29: Waterproof membrane system around wall penetration in shower area with over-surface finish

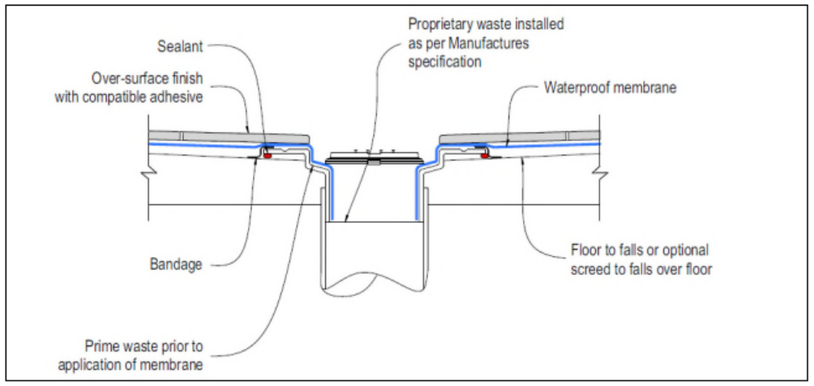

Figure 27: Waterproof membrane system into floor waste outlet

2	Shower Mixer penetration	1	membrane to floor waste
-	1:5	-	1:5

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DRAWING: DETAILS -WETAREA

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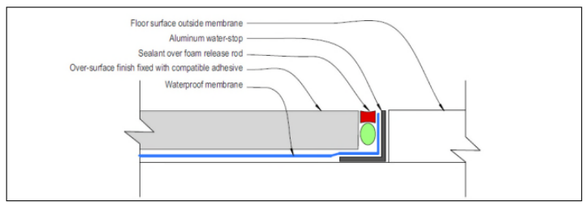

4 - waterproof membrane waterstop 1:2

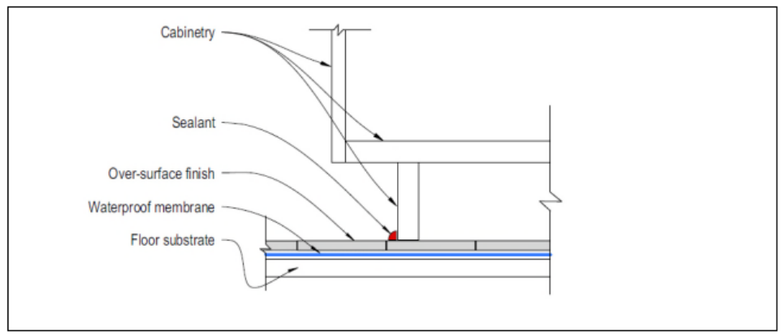

Figure 16: Tiles and waterproof membrane system under cabinet

3 - waterproof membrane under cabinet 1:5

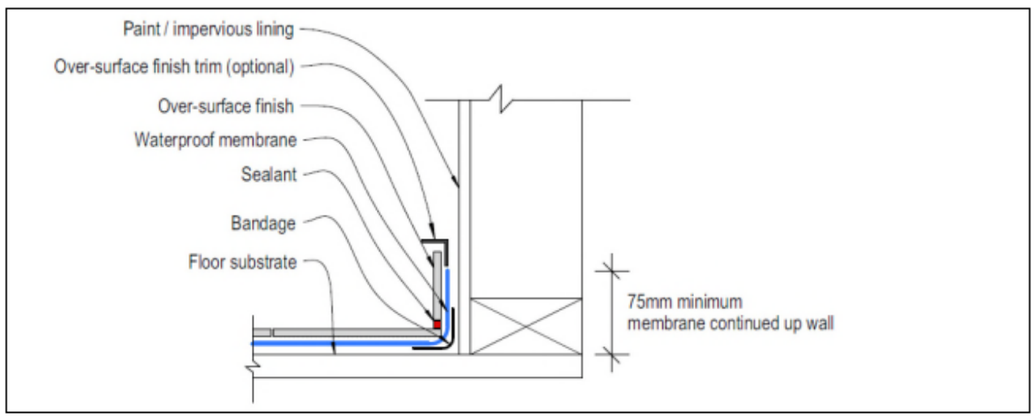

Figure 21: Waterproof membrane system behind skirting

- bathroom floor wall 1:5

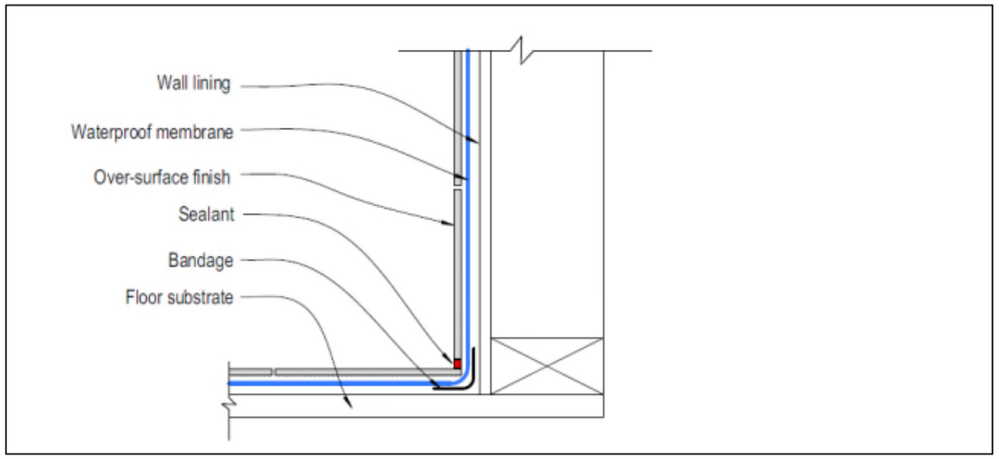

Figure 22: Waterproof membrane system behind over-surface finish to walls

shower floor/wall 1:5

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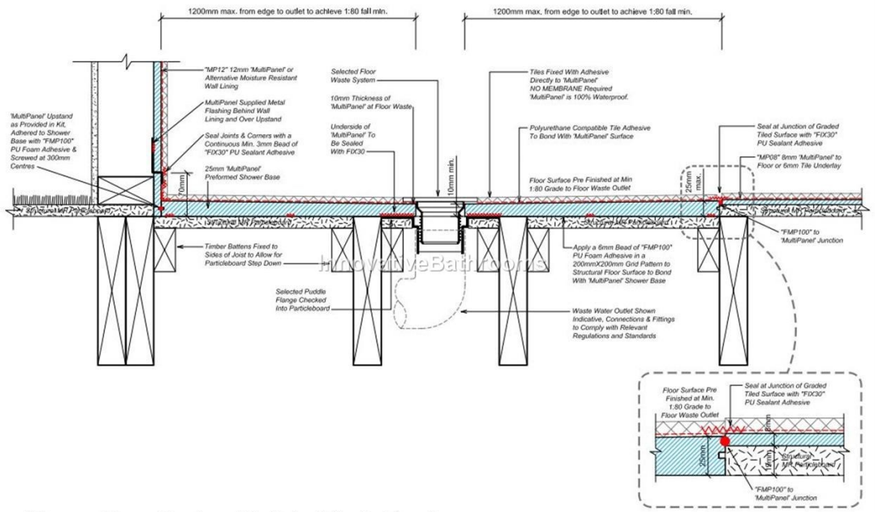
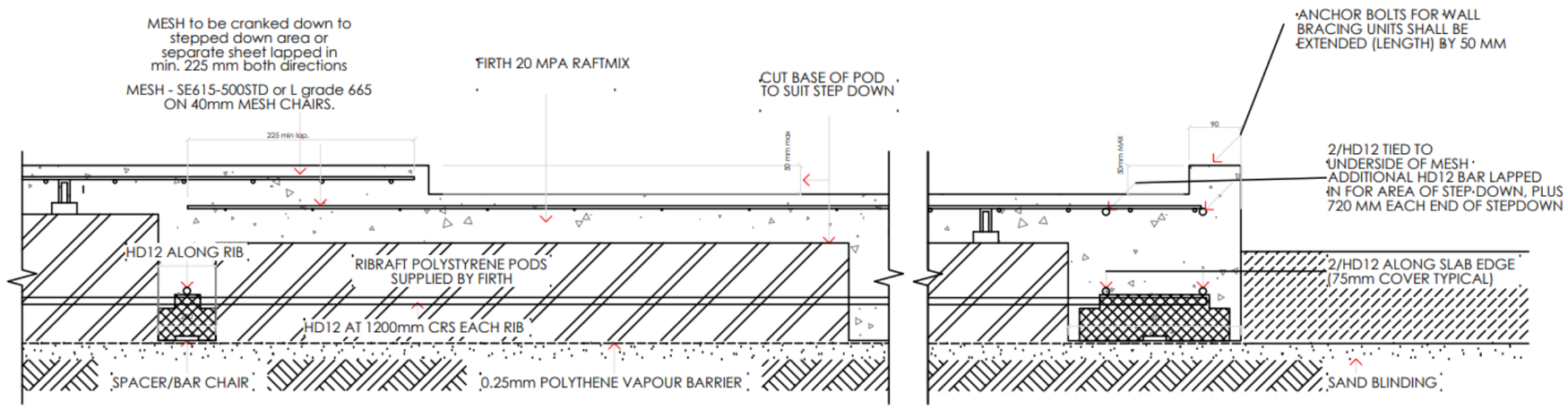
DRAWING: DETAILS -WETAREA

DATE:	SCALE AT A3:
10/05/2023	1:5, 1:2
DRAWING NO: A509	REVISION: 03



Shower Base System Walk In (Flush Floor) [Scale 1:5]

4	rebated shower - timber floor
-	1:10



RIB RAFT FLOOR - SET-DOWN DETAIL FOR MAX. 50mm REBATED SHOWER

Rev	Description	Date
03	DE RFI	10/05/2023

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a: 12 Linley Place, Hillcrest, Auckland

PROJECT NO: #Project Name	
DRAWING: GENERAL DETAIL	
DATE: 10/05/2023	SCALE AT A3: 1:10
DRAWING NO: A510	REVISION: 03

2	rebated shower -concrete slab
-	1:10

LUMBERLOK®

08/2017

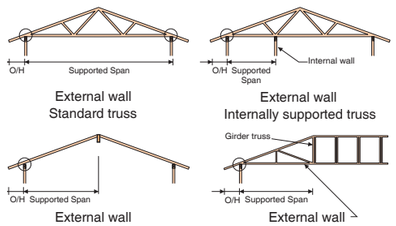
STUD TO TOP PLATE FIXING SCHEDULE

ALTERNATIVE TO TABLE 8.18 NZS 3604:2011

NOTE:

- ★ All fixings are designed to resist vertical loads only. Dead loads include the roof weight and standard ceiling weight of 0.20kPa.
- ★ Refer to Table 8.19 NZS 3604:2011 for nailing schedule to resist lateral loads.
- ★ These fixings assume the correct choice of rafter/truss to top plate connections have been made.
- ★ For gable end walls where the adjacent rafter/truss is located within 1200mm and with a maximum verge overhang of 750mm, select stud to top plate fixing using a loaded dimension of 1.5m.
- ★ All fixings assume top plate thickness of 45mm maximum.
- ★ Wall framing arrangements under girder trusses are not covered in this schedule.
- ★ All timber selections are as per NZS 3604:2011.

LOADED DIMENSION DEFINITION



FIXING SELECTION CHART

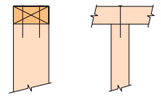
(Suitable for walls supporting roof members at 600, 900 or 1200mm crs.)
Wind Zones L, M, H, VH, EH, as per NZS 3604:2011

Loaded Dimension (m) Stud Centres			Light Roof Wind Zone					Heavy Roof Wind Zone				
300mm	400mm	600mm	L	M	H	VH	EH	L	M	H	VH	EH
3.0	2.3	1.5	A	A	B	B	B	A	A	B	B	B
4.0	3.0	2.0	A	A	B	B	B	A	A	B	B	B
5.0	3.8	2.5	A	B	B	B	B	A	A	B	B	B
6.0	4.5	3.0	A	B	B	B	B	A	A	B	B	B
7.0	5.3	3.5	A	B	B	B	B	A	A	B	B	B
8.0	6.0	4.0	A	B	B	B	B	A	A	B	B	B
9.0	6.8	4.5	B	B	B	B	B	A	A	B	B	B
10.0	7.5	5.0	B	B	B	B	B	A	A	B	B	B
11.0	8.3	5.5	B	B	B	B	B	A	A	B	B	B
12.0	9.0	6.0	B	B	B	B	B	A	A	B	B	B

FIXING OPTIONS

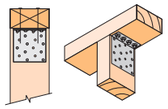
FIXING TYPE A 0.7kN

2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.



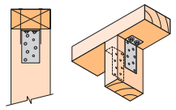
FIXING TYPE B 4.7kN — **CHOOSE ANY OF THE 3 OPTIONS BELOW**

2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.



Plus
LUMBERLOK
6kN Stud Anchor
(CPC80)

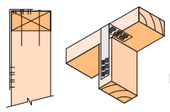
2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.



Plus
2 x LUMBERLOK
CPC40

Recommended for internal wall options to avoid lining issues

2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.



Plus
LUMBERLOK
Stud Strap
(one face only)

NOTE:
To calculate the number of B type fixings required, divide the wall length by the stud centres, add 1 to this figure and locate this number of fixings as evenly as possible along the wall length. This figure includes the start and end studs in each wall length.

SCAN FOR INSTALLATION VIDEO

https://vimeo.com/117353604

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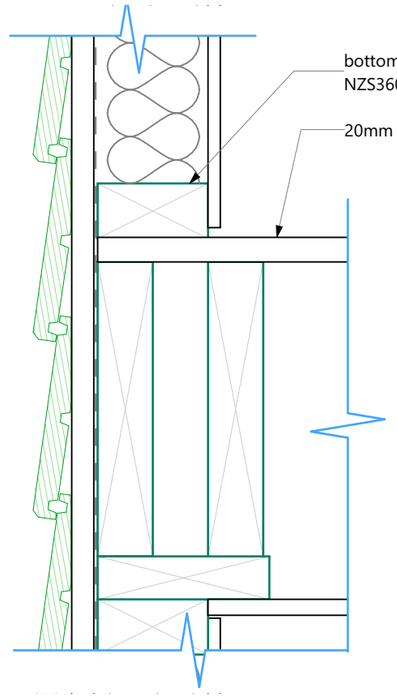
MITEK® LUMBERLOK® BOWMAC®

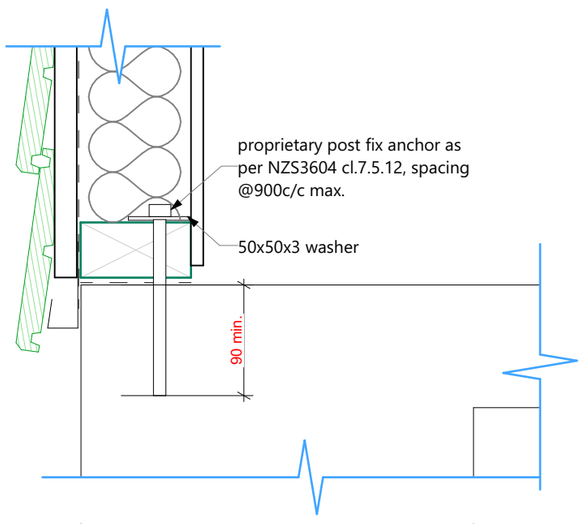
4 3800-Stud-To-Top-Plate-Fixing-Schedule



3 typical wall/floor fixing (timber) 1:5

Table 8.19 – Nailing schedule for hand-driven and power-driven nails (see 8.8.6)

Joint	Hand-driven nails		Power-driven nails	
	Length (mm) x **diameter** (mm) and type	**Number/ Location**	**Length** (mm) x **diameter** (mm) and type	**Number/ Location**
Bottom plate to floor framing at:				
(a) External walls and internal wall bracing elements	100 x 3.75	2 at 600 mm centres	90 x 3.15	3 at 600 mm centres
(b) Internal walls (may be nailed to floor decking)	100 x 3.75	1 at 600 mm centres	90 x 3.15	1 at 600 mm centres
(c) Trimmer not exceeding 4.2 m long	100 x 3.75	4 (end nailed)	90 x 3.15	6 (end nailed)



1 typical wall/floor fixing (concrete) 1:5

Rev	Description	Date
02	RFI	4/05/2023

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PROJECT NO:
#Project Name

DRAWING:
GENERAL DETAIL

DATE:	SCALE AT A3:
10/05/2023	1:5
DRAWING NO:	REVISION:
A511	01