The Groynes Development

Lot 502 - Groynes Park Christchurch





	Layout	R	ev	Sheet Name
A1 SIT	E			
	A101	01		SITE PLAN
A3 BL	OCK B UNI	TS 5 TO	8	
	A301	01		UNITS 5 TO 8 SITE PLAN
	A302	01		UNITS 5 TO 8 SITE WORKS PLAN
	A303	01		UNITS 5 TO 8 GROUND FLOOR PLANS
	A304	01		UNITS 5 AND 6 FOUNDATION / FIRST FLOOR PLANS
	A305	01		UNITS 5 AND 6 FRAMING PLANS
	A306	01		UNITS 5 AND 6 FIRE PLANS
	A307	01		UNITS 7 FOUNDATION / FRAMING / FIRE PLANS
	A308	01		UNITS 8 FOUNDATION / FRAMING / FIRE PLANS
	A309	01		UNITS 5 TO 8 ROOF PLANS
	A310	01		UNITS 5 TO 8 SITE DRAINAGE PLAN
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	A313	01		UNITS 5 TO 8 ELECTRICAL PLANS
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	A315	01		UNITS 5 AND 6 SECTIONS
	A316	01		UNIT 7 - ELEVATIONS
	A317	01		UNIT 7 - SECTIONS
	A318	01		UNIT 8 - ELEVATIONS
	A319	01		UNIT 8 - SECTIONS
	A320	01		BLOCK B DOOR AND WINDOW SCHEDULE
A5 DE	TAILS			
	A501	01		ROOF DETAILS
	1500	04		

A	501	01	ROOF DETAILS
A	502	01	AXON DETAILS
A	503	01	INTEGRA DETAILS
A	504	01	BRICK DETAILS
A	505	01	PLAN DETAILS
A	506	01	PLAN DETAILS
A	507	01	WET AREAS & STAIR DETAILS
A	508	01	WATER SUPPLY
A	509	01	DETAILS
A	510	01	MOULDINGS AND TRIMS DETAIL









1:100 UNITS 5 AND 6 SITE PLAN 13

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Sheet title: UNITS 5 TO 8 SITE PLAN

 Date:
 11/03/2022

 Issue:
 BUILDING CONSENT

 Revision:
 01

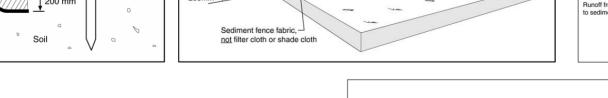
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The Groynes Development Lot 502 - Groynes Park Christchurch

Sheet title: UNITS 5 TO 8 GROUND FLOOR PLANS

 Date:
 11/03/2022

 Issue:
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 Revision:
 01

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 1:100, 1:1 @ A2

Notes

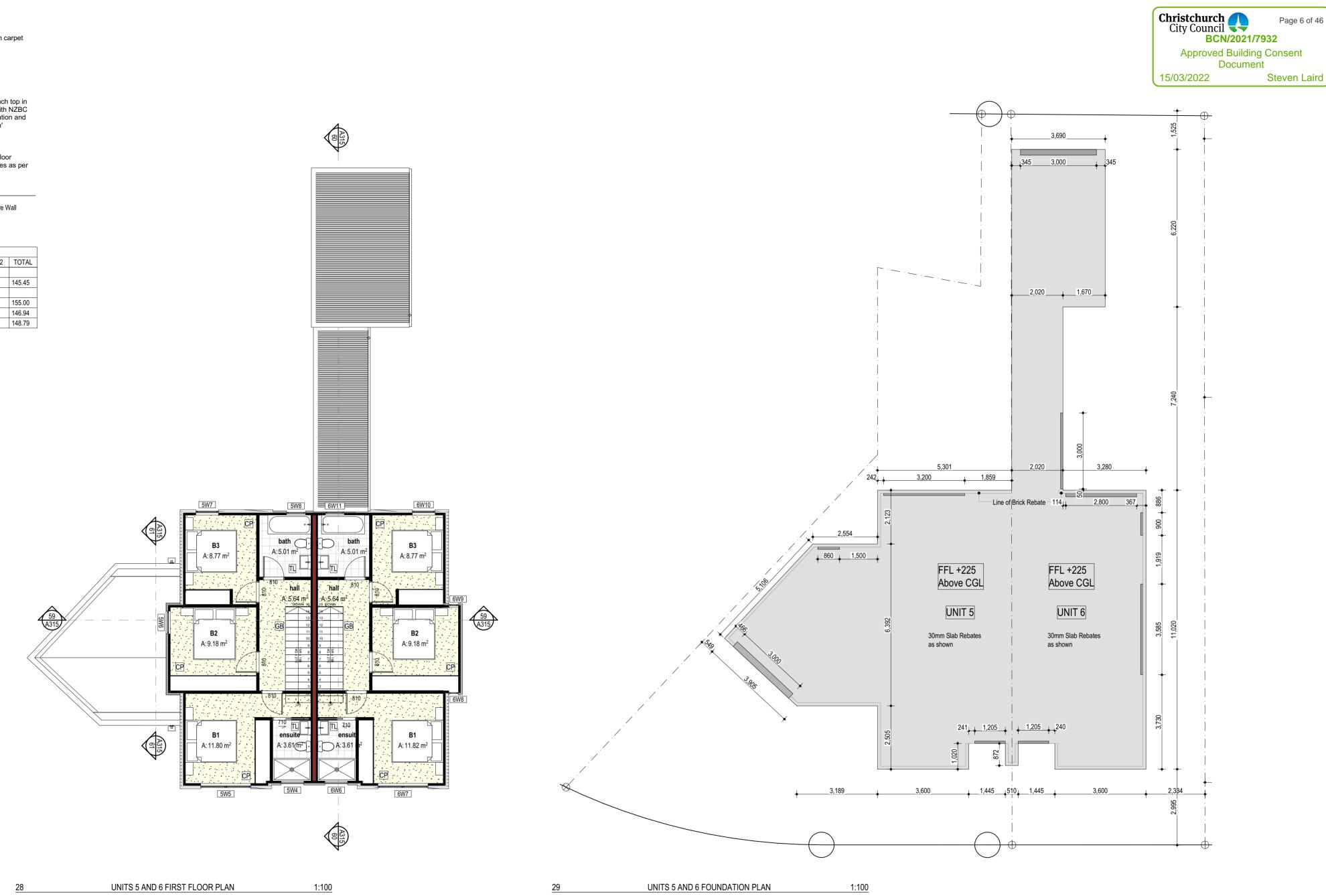
Carpet

	Selected solution dyed nylon carpet
	with delux 11mm underlay
GB	Glass Balustrade
	1m High Glass Balustrade
GCP	Garage Carpet
IBG	Internal Box Gutter
	300mm Internal Box Gutter
KB	Kitchen Bench
	Compressed Laminated bench top in
	the kitchen in accordance with NZBC
	G3/AS1 1.1.3 'Food Preparation and
	Prevention of Contamination'
PF	Planked Flooring
	Vinyl Planked Flooring
TL	Tiles
	Selected floor tiles, antislip floor
	coverings on all access routes as per
	NZBC D1/AS1 table 2
v	Valley
	250mm Valley Gutter

Block Intertenancy / Boundary Fire Wall

Integra Intertenancy Wall

GROSS FLOOR AREA			
UNIT	NIT FLOOR		TOTAL
UNIT 5	Ground Floor	85.40	
UNIT 5	First Floor	60.05	145.45
UNIT 6	Ground Floor	94.93	
UNIT 6	First Floor	60.07	155.00
UNIT 7	Ground Floor	146.94	146.94
UNIT 8	Ground Floor	148.79	148.79

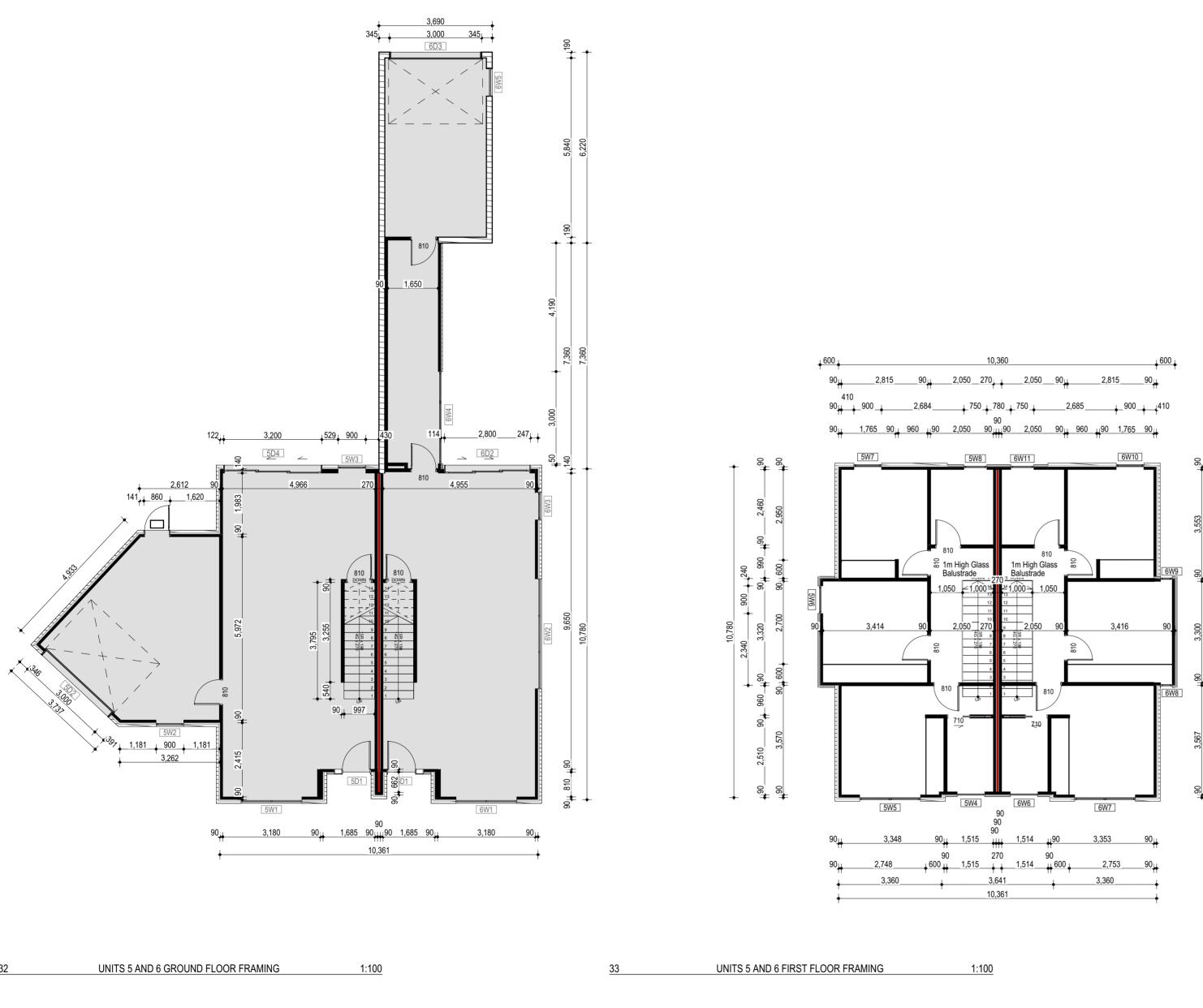






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Block Intertenancy / Boundary Fire Wall

Integra Intertenancy Wall



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Sheet title: UNITS 5 AND 6 FRAMING PLANS

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:100 @ A2

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INTEGRA IT Wall System, INTA120a

Refer Supporting Documents for INTEGRA Lightweight Concrete Intertenancy System

Penetrations - Under no circumstances should any services penetrate the INTEGRA Lightweight Concrete panels. Services may however be concealed within the timber framed section of the wall system, subject to the following constraints.

• A minimum of 10mm clearance should be maintained between any penetrations and the central barrier.

 Penetrations should be no larger than 65mm diameter or 90x50mm through the plasterboard lining. There is no requirement to firestop these penetrations.

• That no more than 2 penetrations per 600mm bay of framing are made

Block Intertenancy / Boundary Fire Wall

Integra Intertenancy Wall

Gib Fire Wall System, GBTL30

One layer 10mm Gib Fyreline to walls

Refer Supporting Documents for Gib Fire Rated Systems.

Penetrations - Refer Supporting Documents for Gib Fire Rated Systems for Gib side, pipe and wire penetrations.

Gib Fire Floor/Ceiling System, GBFC30

One layer of 13mm GIB Fyreline to ceiling

Refer Supporting Documents for Gib Fire Rated Systems.

Penetrations - Refer Supporting Documents for Gib Fire Rated Systems for Gib side, pipe and wire penetrations.

All recessed lighting to be metal backed and fire rated or flush mounted lighting is to be used.

Means Of Compliance C/AS1

FIRE SAFETY SYSTEM

Primary Risk Group SH Design Occupant Load 6 per unit

The above occupant load is calculated based on the number of beds available per unit, assuming each bedroom is a double room.

Fire safety systems shall be installed in compliance with C/AS1 section 2.2a, as follows.

Domestic smoke alarms complying with Acceptable Solution F7/AS1 \odot need be installed within each unit.

MEANS OF ESCAPE

Single direction, 1000mm minimum width, maximum DOP length 18.3m including the x 1.2 for stairs.

SPREAD OF FIRE

Each household unit shall form a separate 30 minute fire cell. Fire resistance rating is 30/30/30 as per C/AS1.

SURFACE FINISHES

Internal - No foamed plastics or combustible insulation materials to be used. No other limitations on internal finishes less than 5m².

External - As the building is located greater that 1m from the existing boundaries and has a height less than 10m, no limitations apply.

VEHICLE ACCESS

The building is located adjacent Eminence Street, CHCH.

EVACUATION PLAN

As per FENZ Act 2017, accommodation is provided for 6 people per unit, evacuation plan is to be provided.

CONSTRUCTION MOITORING

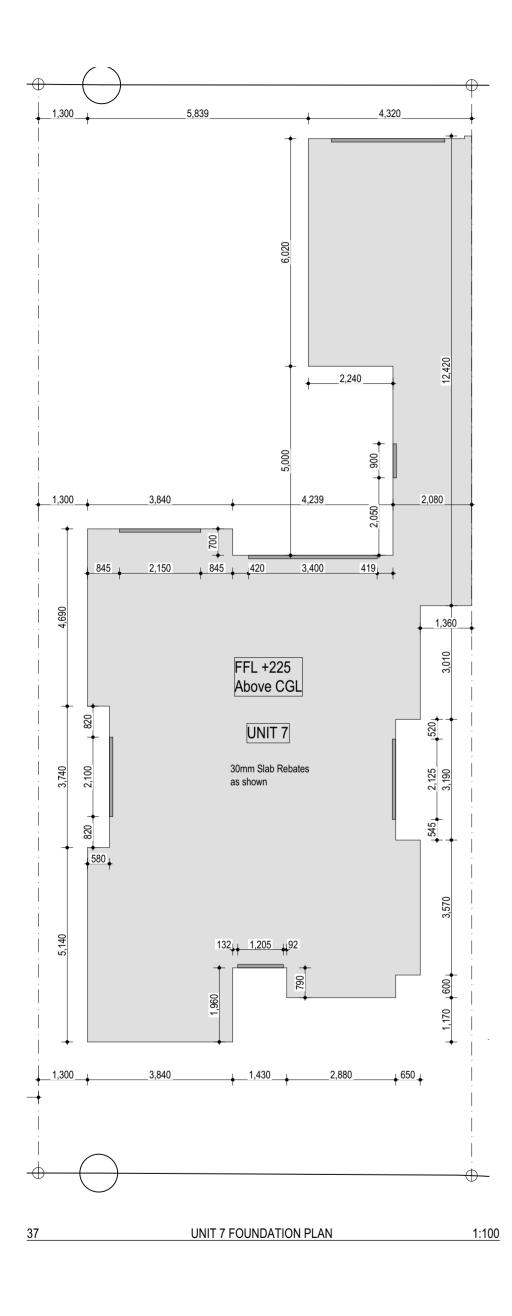
Construction shall be monitored by the local territorial authority to confirm the described systems are in place and to the manufacturers specification.

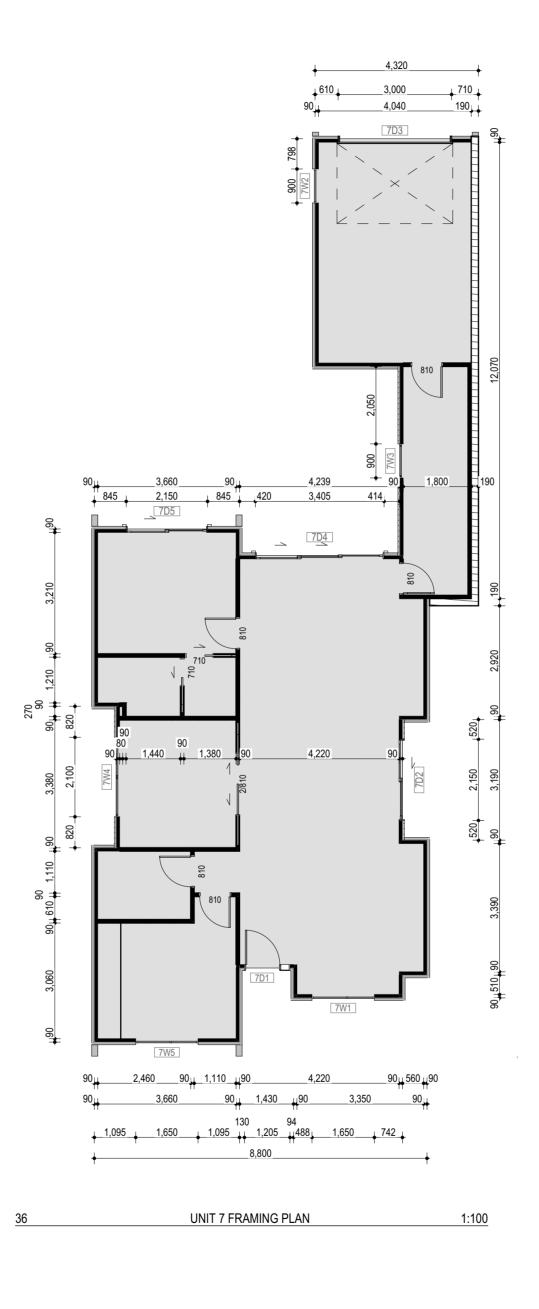
Lot 502 - Groynes Park Christchurch

UNITS 5 AND 6 FIRE PLANS

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:100 @ A2

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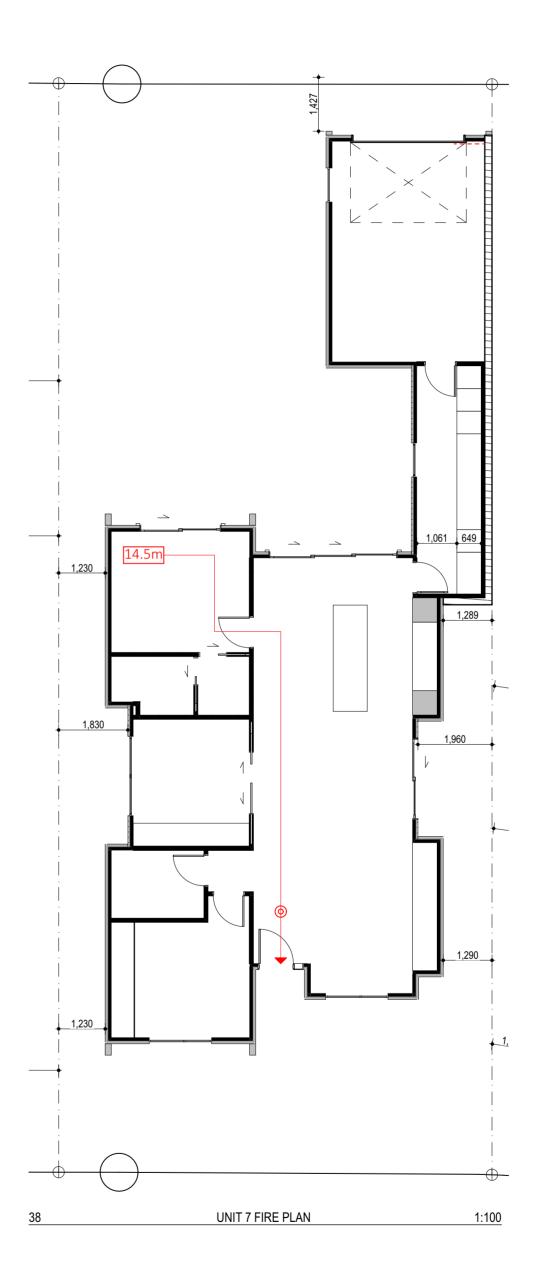




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Block Intertenancy / Boundary Fire Wall

Gib Fire Wall System, GBTL30

One layer 10mm Gib Fyreline to walls

Refer Supporting Documents for Gib Fire Rated Systems.

Penetrations - Refer Supporting Documents for Gib Fire Rated Systems for Gib side, pipe and wire penetrations.

Means Of Compliance C/AS1

FIRE SAFETY SYSTEM

Primary Risk Group SH Design Occupant Load 6 per unit

The above occupant load is calculated based on the number of beds available per unit, assuming each bedroom is a double room.

Fire safety systems shall be installed in compliance with C/AS1 section 2.2a, as follows.

O Domestic smoke alarms complying with Acceptable Solution F7/AS1 need be installed within each unit.

MEANS OF ESCAPE

Single direction, 1000mm minimum width, maximum DOP length 14.5m including the x 1.2 for stairs.

SPREAD OF FIRE

Each household unit shall form a separate 30 minute fire cell. Fire resistance rating is 30/30/30 as per C/AS1.

SURFACE FINISHES

Internal - No foamed plastics or combustible insulation materials to be used. No other limitations on internal finishes less than $5m^2$.

External - As the building is located greater that 1m from the existing boundaries and has a height less than 10m, no limitations apply.

VEHICLE ACCESS

The building is located adjacent Eminence Street, CHCH.

EVACUATION PLAN

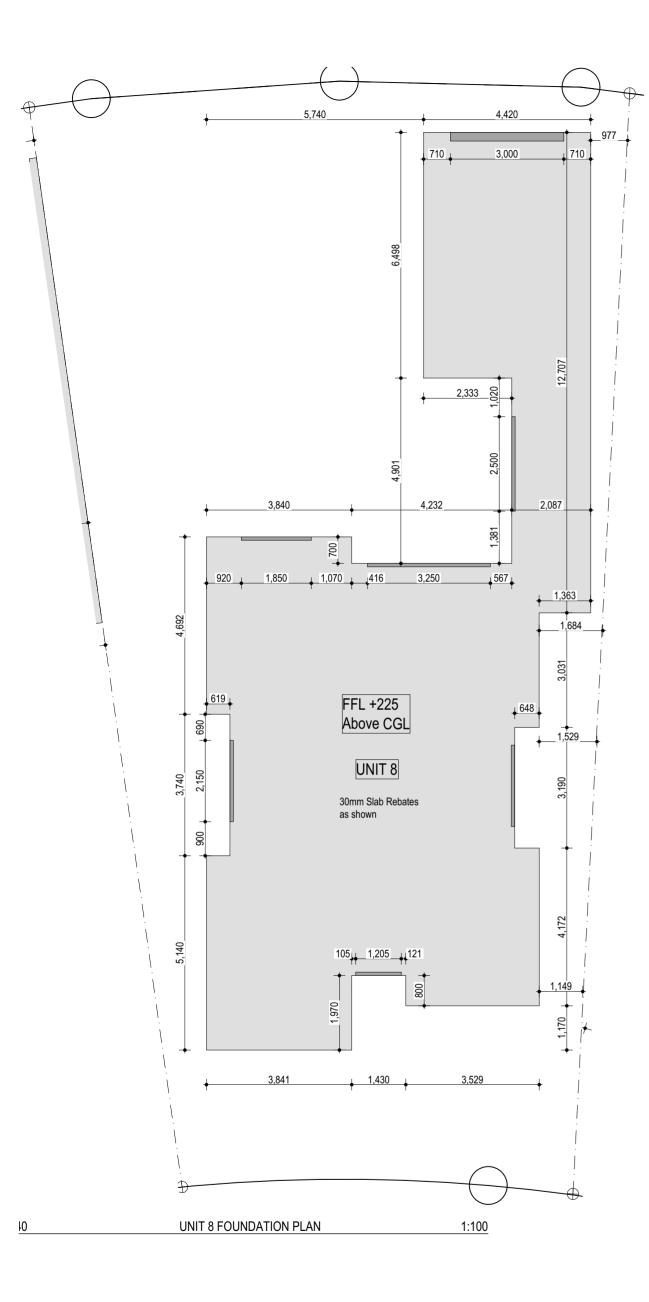
As per FENZ Act 2017, accommodation is provided for 6 people per unit, evacuation plan is to be provided.

CONSTRUCTION MOITORING

Construction shall be monitored by the local territorial authority to confirm the described systems are in place and to the manufacturers specification.

Sheet title: UNITS 7 FOUNDATION / FRAMING / FIRE PLANS Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:100 @ A2

A307





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Block Intertenancy / Boundary Fire Wall

Means Of Compliance C/AS1

FIRE SAFETY SYSTEM

Primary Risk Group SH Design Occupant Load 6 per unit

The above occupant load is calculated based on the number of beds available per unit, assuming each bedroom is a double room.

Fire safety systems shall be installed in compliance with C/AS1 section 2.2a, as follows.

Domestic smoke alarms complying with Acceptable Solution F7/AS1 0 need be installed within each unit.

MEANS OF ESCAPE

Single direction, 1000mm minimum width, maximum DOP length 14.5m including the x 1.2 for stairs.

SPREAD OF FIRE

Each household unit shall form a separate 30 minute fire cell. Fire resistance rating is 30/30/30 as per C/AS1.

SURFACE FINISHES

Internal - No foamed plastics or combustible insulation materials to be used. No other limitations on internal finishes less than 5m².

External - As the building is located greater that 1m from the existing boundaries and has a height less than 10m, no limitations apply.

VEHICLE ACCESS

The building is located adjacent Eminence Street, CHCH.

EVACUATION PLAN As per FENZ Act 2017, accommodation is provided for 6 people per unit, evacuation plan is to be provided.

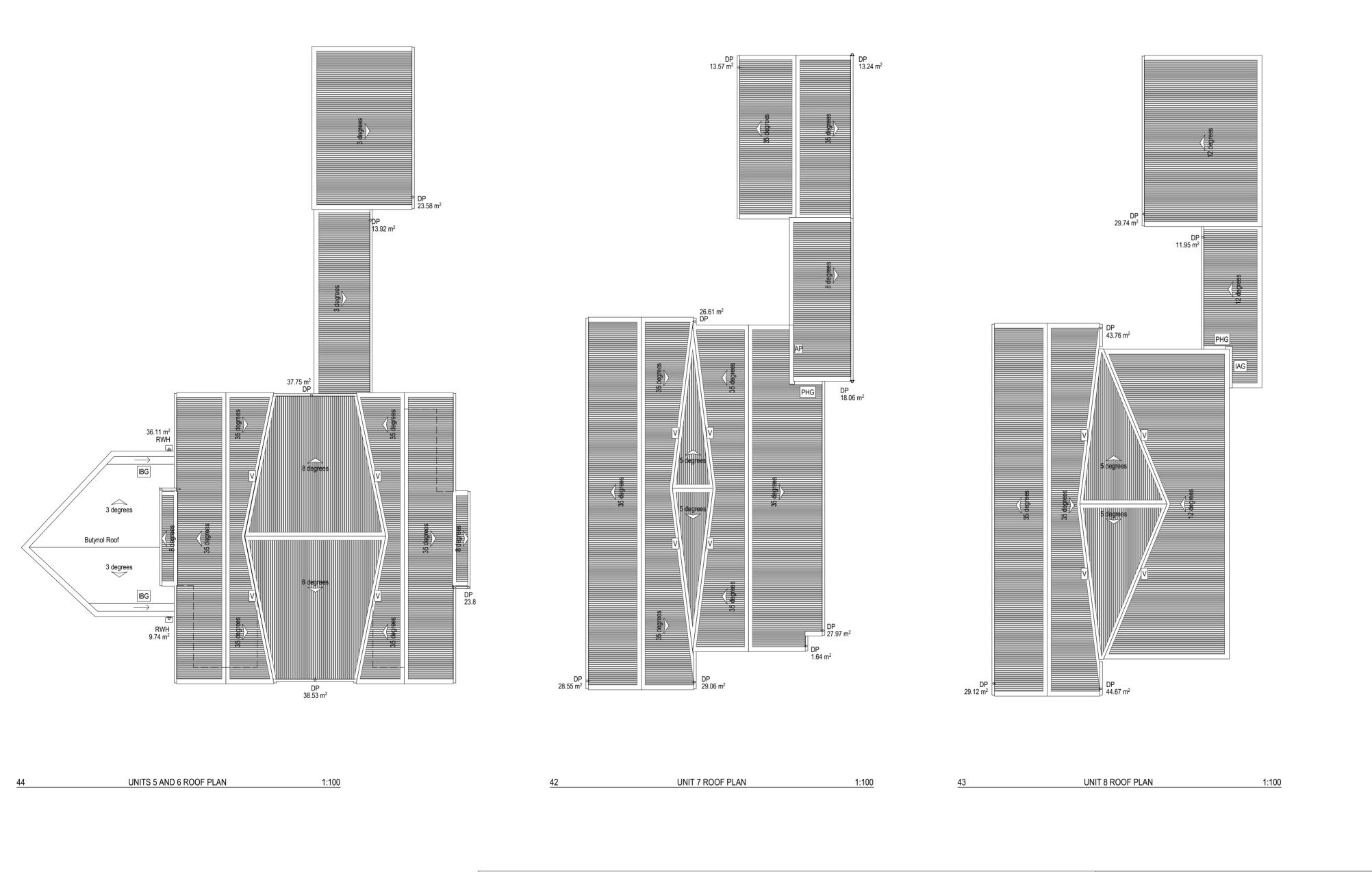
CONSTRUCTION MOITORING

Construction shall be monitored by the local territorial authority to confirm the described systems are in place and to the manufacturers specification.

The Groynes Development Lot 502 - Groynes Park Christchurch

Sheet title: UNITS 8 FOUNDATION / FRAMING / FIRE PLANS

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:100 @ A2







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Notes	
AP	Apron Flashing
IAG	Internal Abutment Gutter
	Internal Abutment Gutter on nogs to suit
IBG	Internal Box Gutter
	300mm Internal Box Gutter
PHG	Parallel Hidden Gutter
	160mm min Parallel Hidden Gutter
V	Valley
	250mm Valley Gutter

The Groynes Development Lot 502 - Groynes Park Christchurch

Sheet title: UNITS 5 TO 8 ROOF PLANS

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:100 @ A2

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DRAINAGE KEY

	40mm UPVC pipe @ 1:40 grade shower, basin, bath etc. Laundry @ 1:30 Grade
	100mm UPVC pipe @ 1:60 grade Main Drain
• AAV	Air Admittance Valve
• ORG	Overflow Relief Gully
• TV	50mm UPVC Terminal Vent with bird excluder
• ST	100mm Soil Stack
• Soak	80mm PVC Soaker
• FWG	65mm Floor waste gully charged by one fixture
TAP	External water tap
IP	Inspection Point
	Storm Water, 100mm UPVC pipe @ 1:60 grade
	Storm Water, 150mm UPVC pipe @ 1:60 grade
• SW	SW Riser
HWC	Hot water cylinder with safe tray. Copper ORV
M	Water Meter
	Water Feed
	Silt Trap
-	Sink with 15lt/min overflow

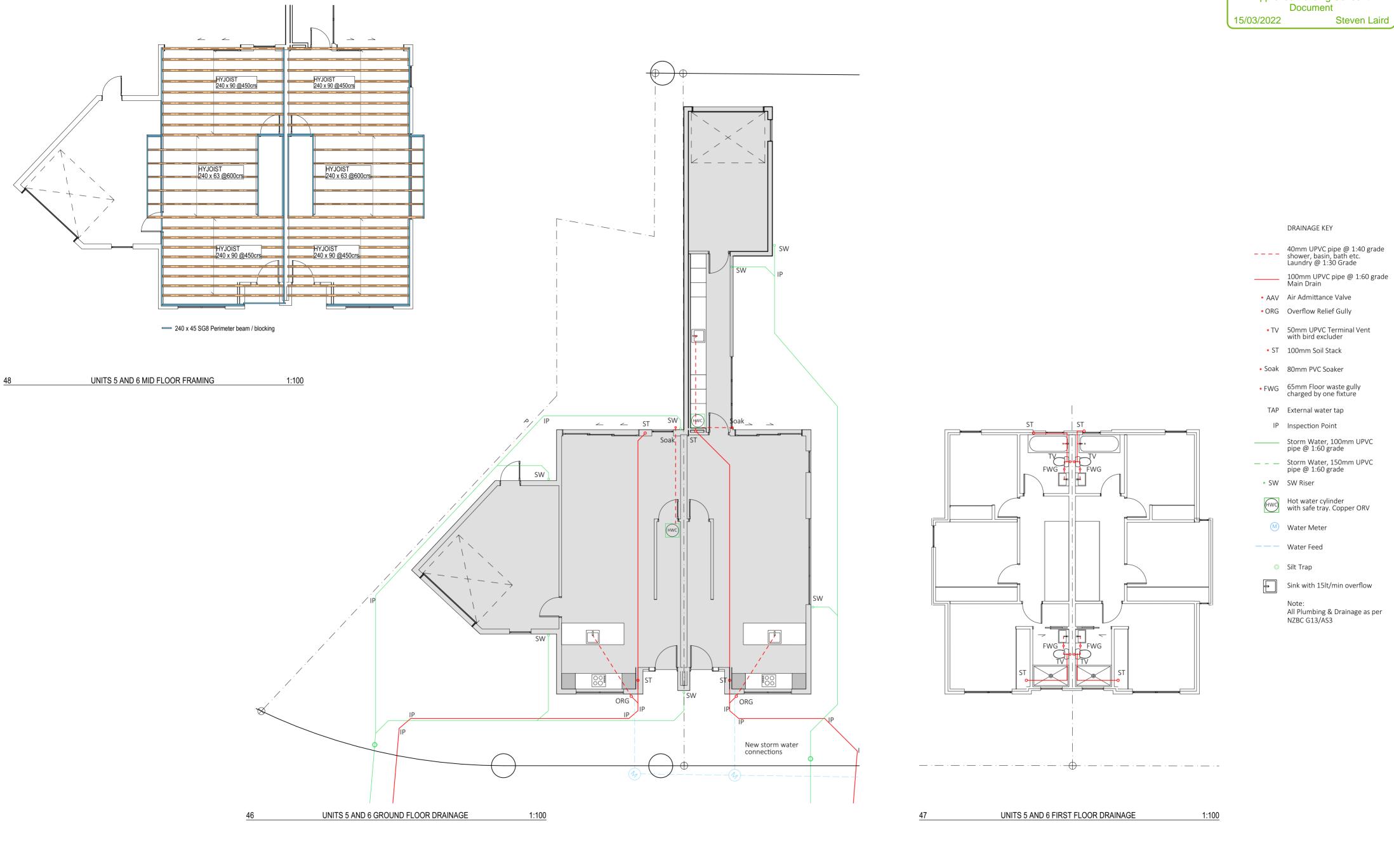
Note: All Plumbing & Drainage as per NZBC G13/AS3

The Groynes Development Lot 502 - Groynes Park Christchurch

Sheet title: UNITS 5 TO 8 SITE DRAINAGE PLAN

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:150 @ A2

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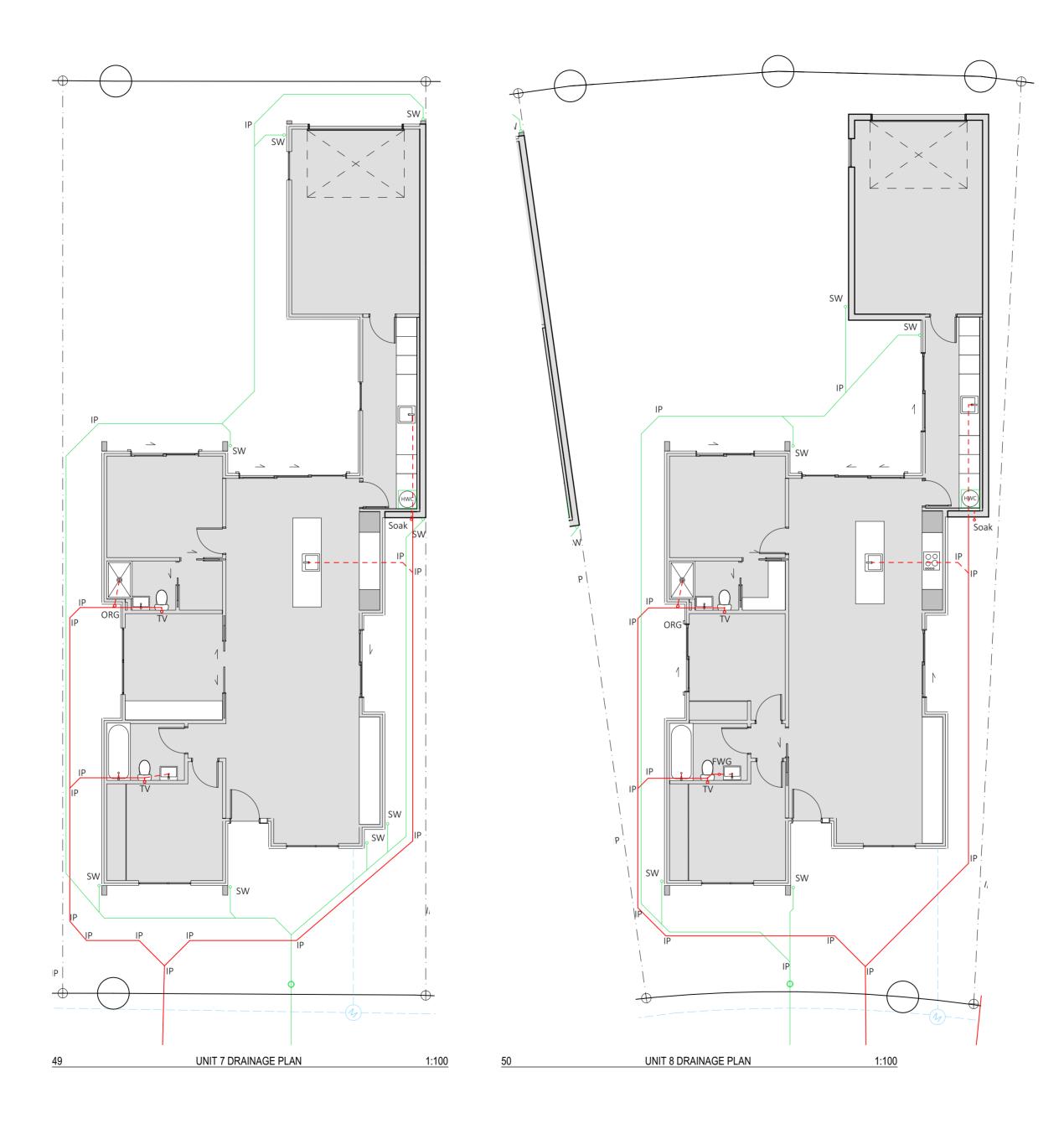


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The Groynes Development Lot 502 - Groynes Park Christchurch Sheet title: UNITS 5 AND 6 DRAINAGE PLAN Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:100 @ A2

A311

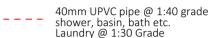


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DRAINAGE KEY

Laundrý @ 1:30 Grade		
100mm UPVC pipe @ 1:60 grade Main Drain		
Air Admittance Valve		
Overflow Relief Gully		
50mm UPVC Terminal Vent with bird excluder		
100mm Soil Stack		
80mm PVC Soaker		
65mm Floor waste gully charged by one fixture		
External water tap		
Inspection Point		
Storm Water, 100mm UPVC pipe @ 1:60 grade		
Storm Water, 150mm UPVC pipe @ 1:60 grade		
SW Riser		
Hot water cylinder with safe tray. Copper ORV		
Water Meter		
Water Feed		
Silt Trap		
Sink with 15lt/min overflow		

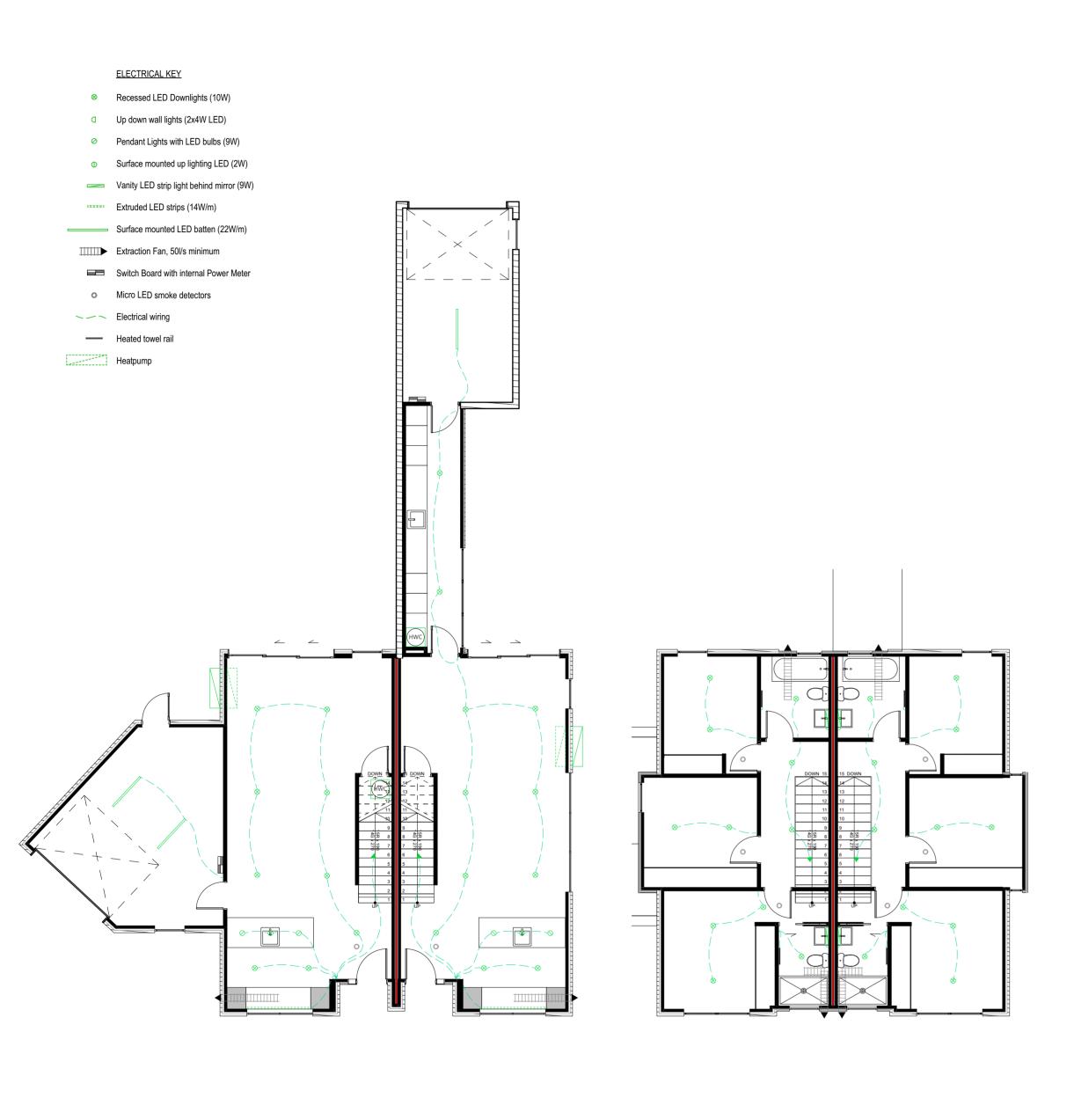
Note: All Plumbing & Drainage as per NZBC G13/AS3

The Groynes Development Lot 502 - Groynes Park Christchurch

Sheet title: UNITS 7 AND 8 DRAINAGE PLAN

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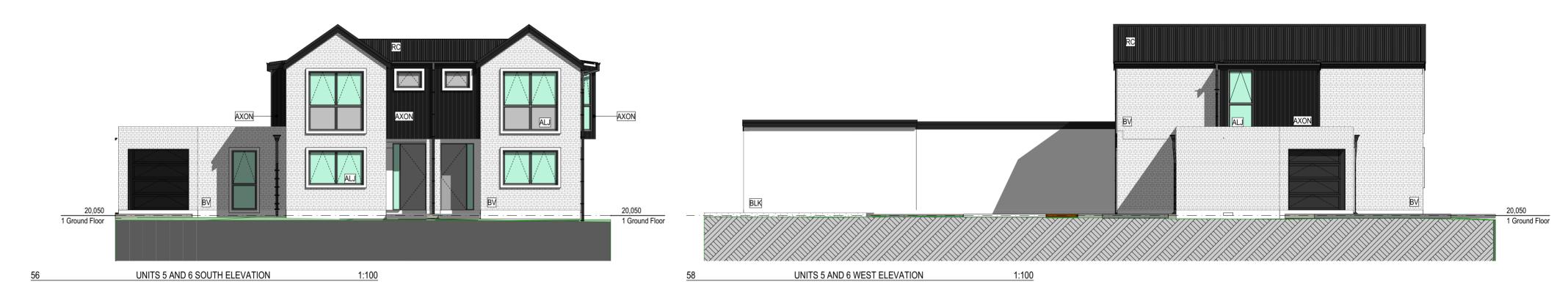
Sheet title: UNITS 5 TO 8 ELECTRICAL PLANS

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BUILDING ENVELOP	PE RISK MATR	XIX						
UNITS 5 AND 6 ALL ELEVATIONS								
Risk Factor	Risk Severity	Risk Score						
Wind zone (per NZS 3604)	High risk	1						
Number of storeys	High risk	2						
Roof/wall intersection design	Medium risk	1						
Eaves width	Very high risk	5						
Envelope complexity	Low risk	0						
Deck design	Low risk	0						
Total Risk Score:		9						

Notes

ALJ	Aluminium Joinery Double glazed aluminium joinery refer to specification.	BLK
AXON	James Hardie Axon panel Axon panel over H3.1 45x20mm Radiata battens at 300mm centers over wall underlay over H1.2 90x45mm Radiata framing with studs at 600mm centres and dwangs at	BV INT
	800mm centres. Panel to overhang slab by 50mm. Bottom plate fixed with 135mm	

hold down bolts at 1200mm centers and 150mm Block Wall

200 series core fill block wall, with external Rockcote render RC See supporting docs

Brick Veneer 70 series brick veneer over 50mm cavity

Integra System

Resene Integra Lightweight Concrete Facade System -Integra 50mm Panel on 20mm Cavity on wall underlay on H1.2 SG8 90x45mm Radiata

framing with studs at 600mm centres and dwangs at 800mm centres. Refer to supporting documentation.

Roof Cladding

0.55mm BMT Longrun Trapezoidal roof cladding over roofing underlay over H1.2 75 x 45mm SG8 radiata purlins @ 900mm centres with 600mm end purlins

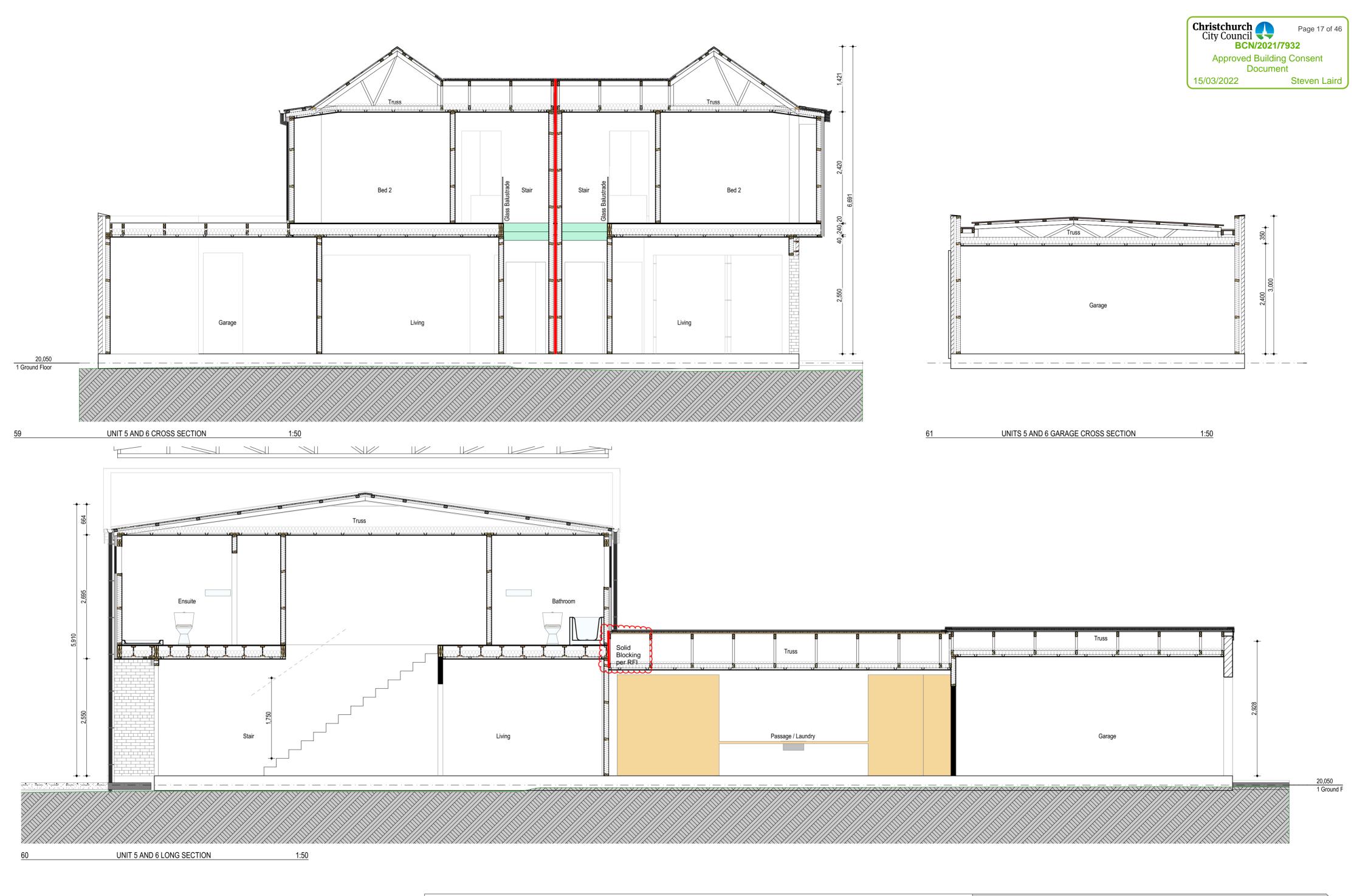
A314

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Sheet title: UNITS 5 AND 6 ELEVATIONS

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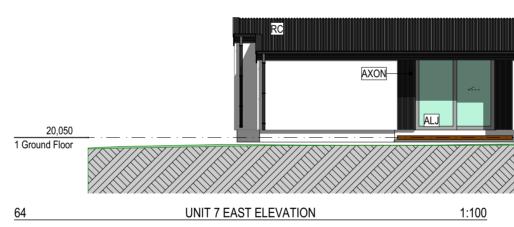
Sheet title: UNITS 5 AND 6 SECTIONS

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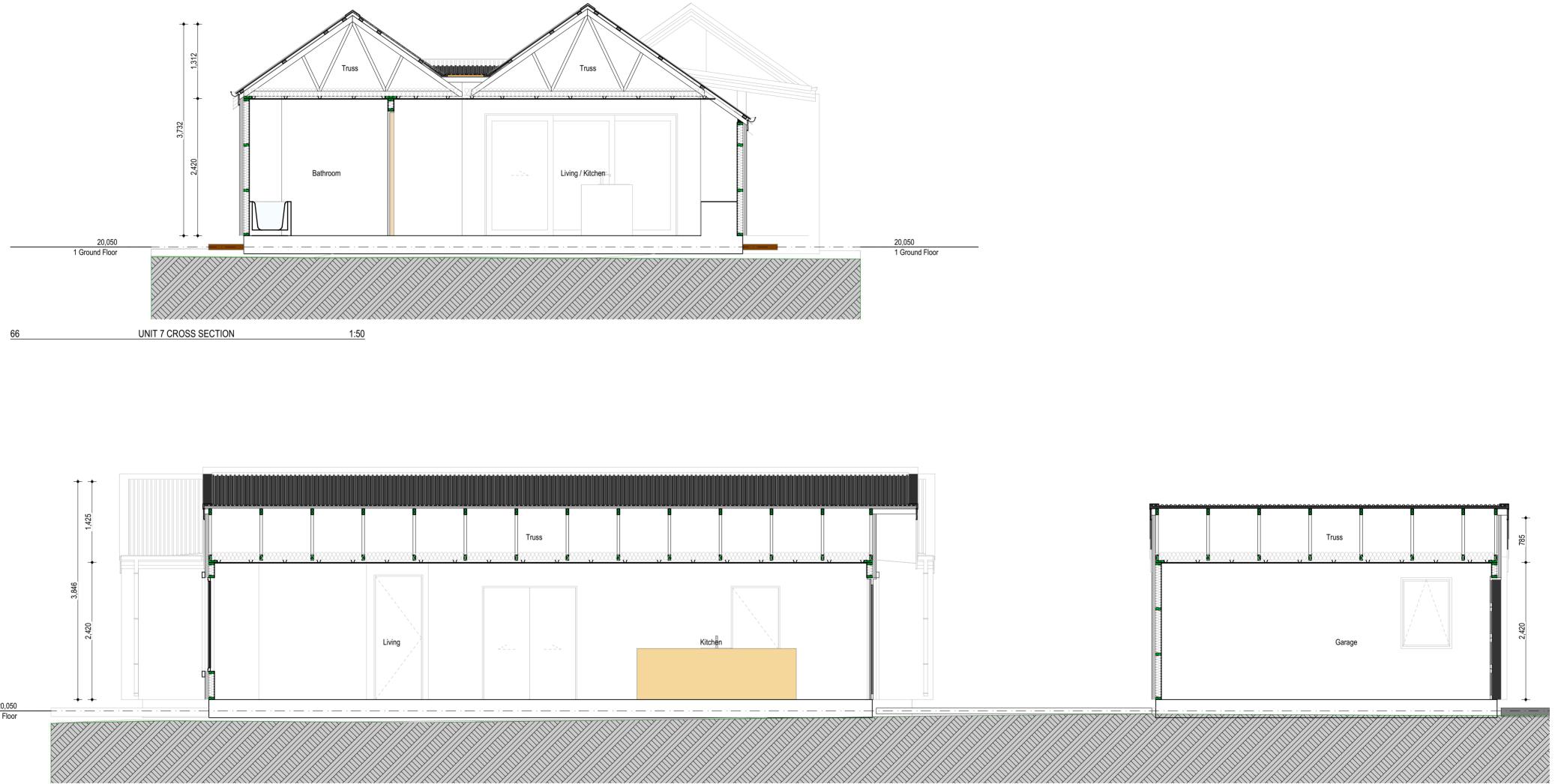
		Notes		
Christchurch City Council	Page 18 of 46	ALJ	Aluminium Joinery Double glazed aluminium joiner to specification.	y refer
Approved E	Building Consent cument Steven Laird	AXON	James Hardie Axon panel Axon panel over H3.1 45x Radiata battens at 300mm c over wall underlay over 90x45mm Radiata framing with at 600mm centres and dwar 800mm centres. Panel to over slab by 50mm. Bottom plate fixe 135mm hold down bolts at 12 centers and 150mm	centers H1.2 n studs ngs at erhang ed with
		BLK	Block Wall 200 series core fill block wall external Rockcote render See supporting docs	ll, with
	RC	INT	Integra System Resene Integra Lightweight Co Facade System - Integra 50mm on 20mm Cavity on wall under H1.2 SG8 90x45mm Radiata fr with studs at 600mm centres dwangs at 800mm centres. Re	Panel rlay on raming s and
		RC	 a supporting documentation. Roof Cladding 0.55mm BMT Longrun Traperoof cladding over roofing un over H1.2 75 x 45mm SG8 r purlins @ 900mm centres with 6 end purlins 	ezoidal nderlay radiata
	~~/////////////////////////////////////			
100		BUI	ILDING ENVELOPE RISK MATRIX	
			UNIT 7 ALL ELEVATIONS	
		Risk Factor	Risk Severity Ris	k Score
		Number of st	ersection design Medium risk Very high risk mplexity Low risk	1 0 1 5 0 0
		Total Risk Sc		7
	BLK 20,050			
	1 Ground Floor			

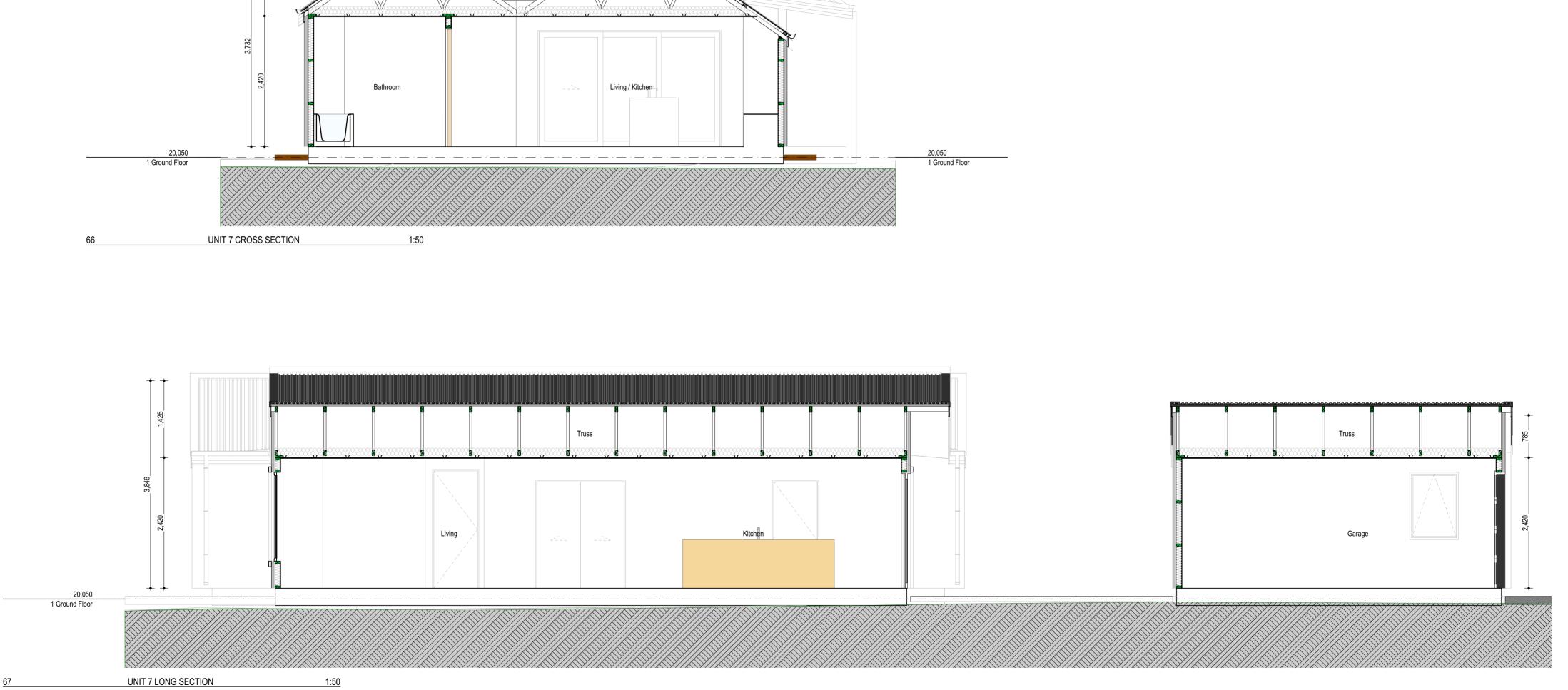
Note

ALJ	Aluminium Joinery Double glazed aluminium joinery refer to specification.
AXON	James Hardie Axon panel Axon panel over H3.1 45x20mm Radiata battens at 300mm centers over wall underlay over H1.2 90x45mm Radiata framing with studs at 600mm centres and dwangs at 800mm centres. Panel to overhang slab by 50mm. Bottom plate fixed with 135mm hold down bolts at 1200mm centers and 150mm
BLK	Block Wall 200 series core fill block wall, with external Rockcote render See supporting docs
INT	Integra System Resene Integra Lightweight Concrete Facade System - Integra 50mm Panel on 20mm Cavity on wall underlay on H1.2 SG8 90x45mm Radiata framing with studs at 600mm centres and dwangs at 800mm centres. Refer to supporting documentation.
RC	Roof Cladding 0.55mm BMT Longrun Trapezoidal roof cladding over roofing underlay over H1.2 75 x 45mm SG8 radiata

BUILDING ENVELOPE RISK MATRIX									
UNIT 7 ALL ELEVATIONS									
Risk Factor Risk Severity Risk Score									
Wind zone (per NZS 3604)	High risk	1							
Number of storeys	Low risk	0							
Roof/wall intersection design	Medium risk	1							
Eaves width	Very high risk	5							
Envelope complexity	Low risk	0							
Deck design	Low risk	0							
Total Risk Score:		7							









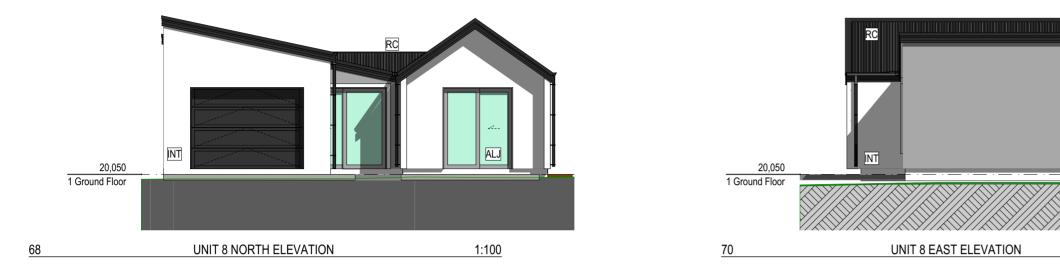
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Sheet title: UNIT 7 - SECTIONS

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:50 @ A2

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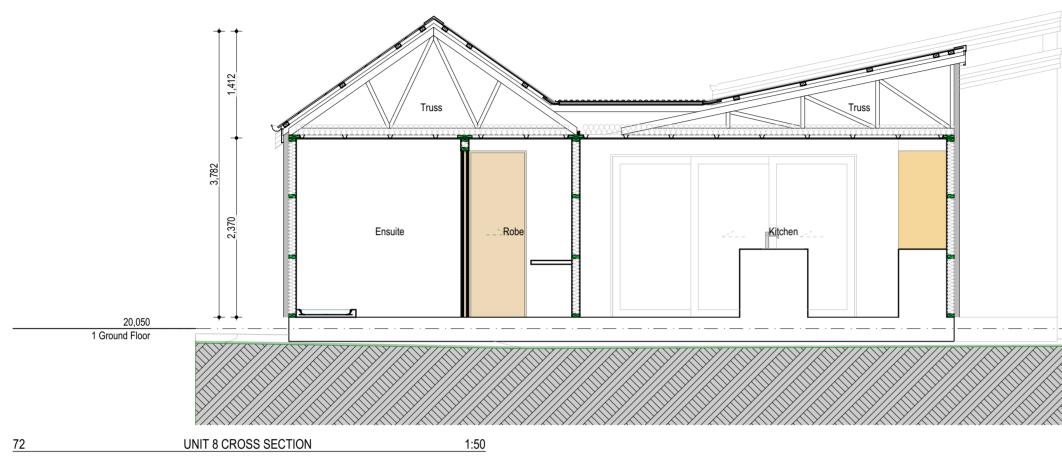


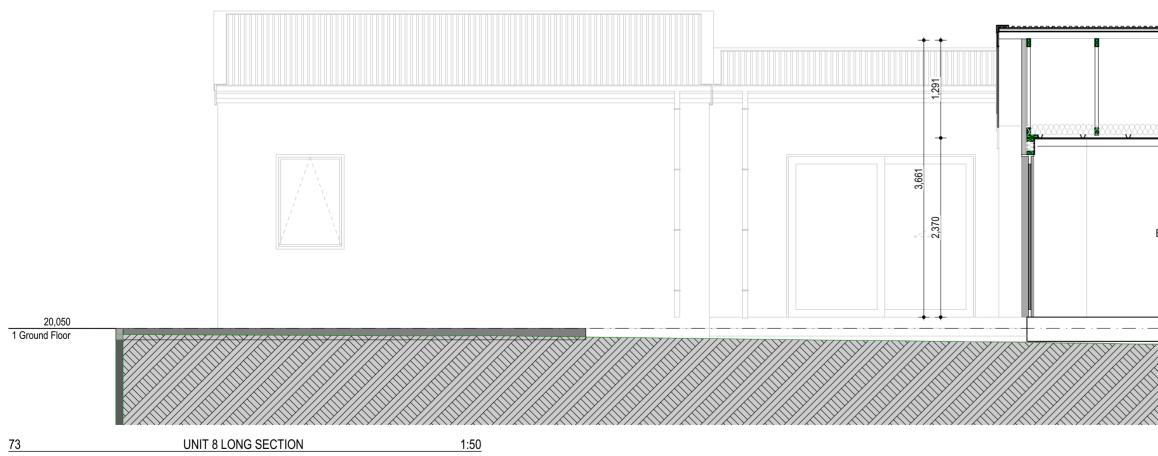


Sheet title: UNIT 8 - ELEVATIONS

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:100 @ A2

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20,050 1 Ground Floor

 Bed 1
 Ensuite
 Bed 2
 Robe
 Bathroom
 Bed 3

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Lot 502 - Groynes Park Christchurch	

Sheet title: UNIT 8 - SECTIONS

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:50 @ A2

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UNIT 5 / LOT 139

Full Element ID	5D1	5D2	5D3	5D4	5W1	5W2	5W3	5W4	5W5	5W6	5W7	5W8
Opening Name	CI Tools Door	CI Tools Garage Door	CI Tools Door	CI Tools Door	CI Tools Window	CI Tools Window	CI Tools Window	CI Tools Window	CI Tools Window	CI Tools Window	CI Tools Window	CI Tools Window
Quantity	1	1	1	1	1	1	1	1	1	1	1	1
Zone Number												
W x H Size	1,205×2,400	3,000×2,200	860×2,200	3,200×2,150	1,980×1,250	900×2,150	900×2,150	900×600	1,980×2,150	900×2,150	900×2,150	750×900
Orientation	L	L	L	L	R	R	R	R	R	R	L	R
Sill height	0	0	0	0	900	0	0	1,845	0	350	0	1,250
Head height	2,400	2,200	2,200	2,150	2,150	2,150	2,150	2,445	2,150	2,500	2,150	2,150
View from Side Opposite to Opening Side	S		6	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	R B S S	(R) (S)	(R) (S)	R ^A	R R S S	®	R	R S

UNIT 6 / LOT 140

	1													
Full Element ID	6D1	6D2	6D3	6W1	6W2	6W3	6W4	6W5	6W6	6W7	6W8	6W9	6W10	6W11
Opening Name	CI Tools Door	CI Tools Door	CI Tools Garage Door	CI Tools Window	CI Tools Window	CI Tools Window	CI Tools Window	CI Tools Window						
Quantity	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Zone Number														
W x H Size	1,205×2,400	2,800×2,150	3,000×2,150	1,980×1,250	3,585×2,150	900×2,150	3,000×2,150	900×1,250	900×600	1,980×2,150	380×2,150	380×2,150	900×2,150	750×900
Orientation	R	R	R	R	R	R	R	L	R	R	R	L	L	R
Sill height	0	0	0	900	0	0	0	900	1,845	0	295	295	0	1,250
Head height	2,400	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,445	2,150	2,445	2,445	2,150	2,150
View from Side Opposite to Opening Side		5 S S		® ® S	6 8 8	6	S 8 8		R S	R R S S	(S)	R	R	

UNIT 7 / LOT 141

					All Opening	:				
Full Element ID	7D1	7D2	7D3	7D4	7D5	7W1	7W2	7W3	7W4	
Opening Name	CI Tools Door	CI Tools Door	CI Tools Garage Door	CI Tools Door	CI Tools Door	CI Tools Window	CI Tools Window	CI Tools Window	CI Tools Window	CI Tools V
Quantity	1	1	1	1	1	1	1	1	1	
Zone Number										
W x H Size	1,205×2,400	2,150×2,150	3,000×2,150	3,400×2,150	2,150×2,150	1,650×1,650	900×1,250	900×2,150	2,100×2,150	1,650
Orientation	R	R	R	R	R	R	R	R	R	
Sill height	0	0	0	0	0	500	900	0	250	
Head height	2,400	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,400	
View from Side Opposite to Opening Side	S	st 3 3		s. s.	s s	RSS	R S	R	<u> </u>	RSS

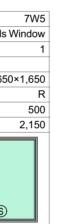
UNIT 8 / LOT 142

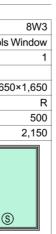
UNIT 8 / LUT 142										
	s Schedule									
Full Element ID	8D1	8D2	8D3	8D4	8D5	8D6	8D7	8W1	8W2	
Opening Name	CI Tools Door	CI Tools Door	CI Tools Garage Door	CI Tools Window	CI Tools Window	CI Tools W				
Quantity	1	1	1	1	1	1	1	1	1	
Zone Number										
W x H Size	1,205×2,150	2,150×2,150	3,000×2,150	2,500×2,150	3,250×2,150	1,850×2,150	2,150×2,150	1,650×1,650	900×1,250	1,650
Orientation	R	L	R	R	L	R	R	R	L	
Sill height	0	0	0	0	0	0	0	500	900	
Head height	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	
View from Side Opposite to Opening Side	S	 S S		s			S S	R	R S	R

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Obscured Glass

Glazing Key

S Safety glassR Restrictor stays - Refer Elevations Refer to specification for joinery suite selection. All glazing shall comply with NZS 4223:3:2016, human impact safety requirements. Standard double glazing units, refer specification. In general all glazing up to 500mm above floor level and over 500mm wide shall be Grade A safety glass. All glazing to wet areas shall be Grade A safety glass. All sash openings below 1000mm AFL where exterior fall is greater than 1000mm are to have restrictor stays to 100mm max opening.

Christchurch City Council BCN/2021/7932

15/03/2022

Approved Building Consent Document

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Steven Laird

All aluminium window & doors shall be supported at the sill with continuous length WANZ bars unless detailed loading over frame.

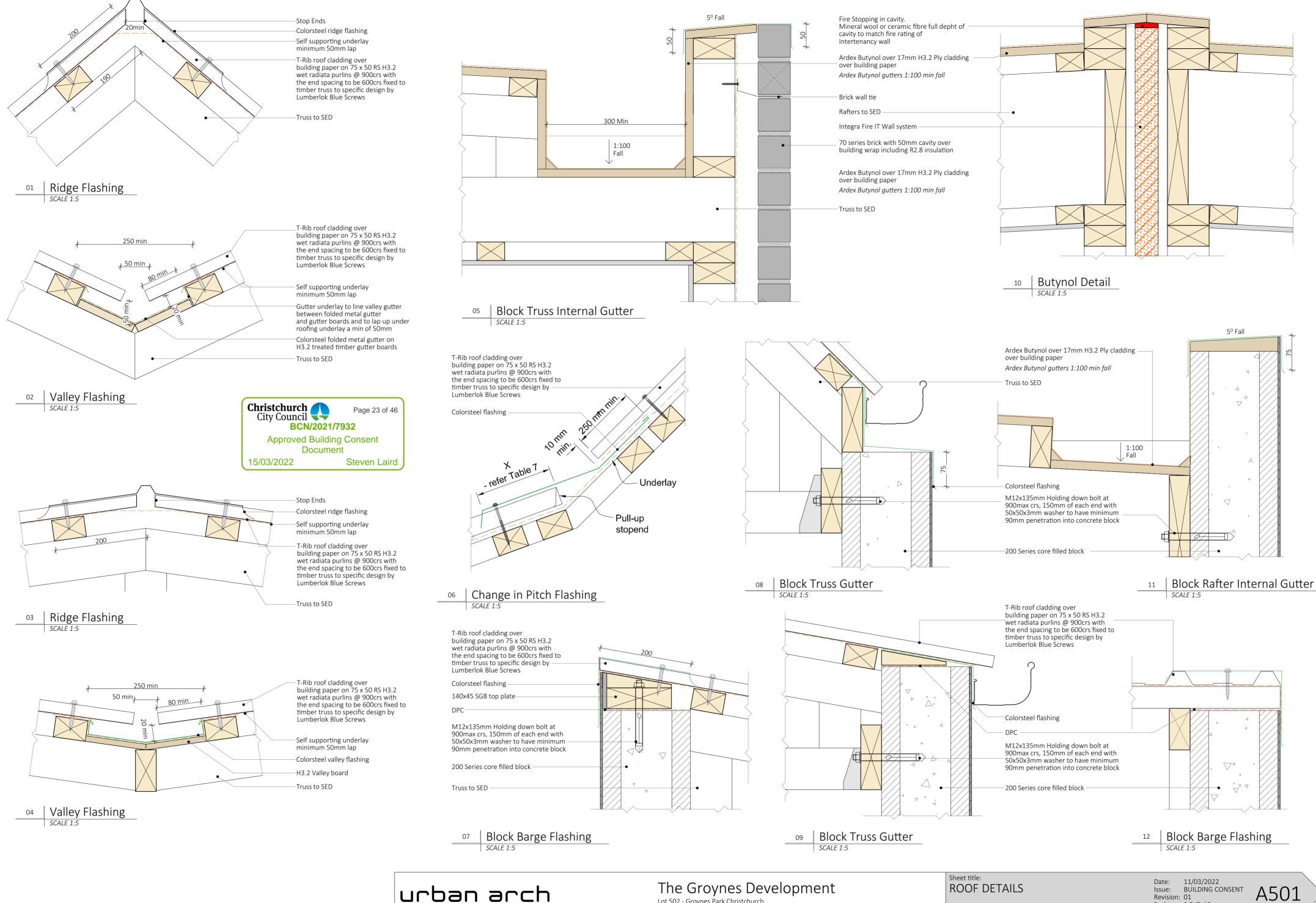
ALL WINDOW AND DOOR UNITS MUST BE SITE MEASURED PRIOR TO FABRICATION

The Groynes Development Lot 502 - Groynes Park Christchurch

Sheet title: BLOCK B DOOR AND WINDOW SCHEDULE

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:100, 1:1 @ A2

A320



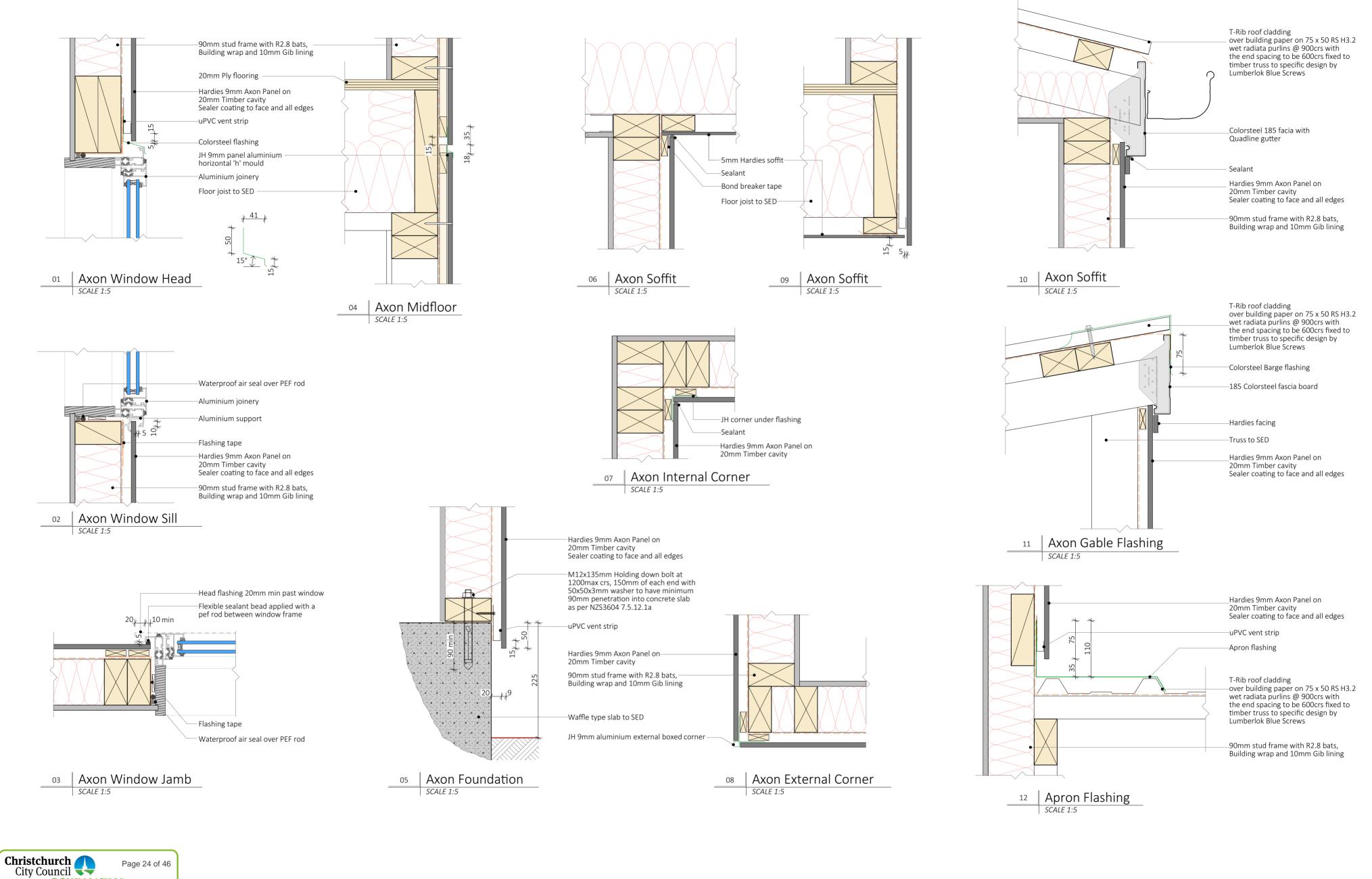
Lot 502 - Groynes Park Christchurch

ROOF DETAILS

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Revision: 01

Scale: 1:5 @ A2





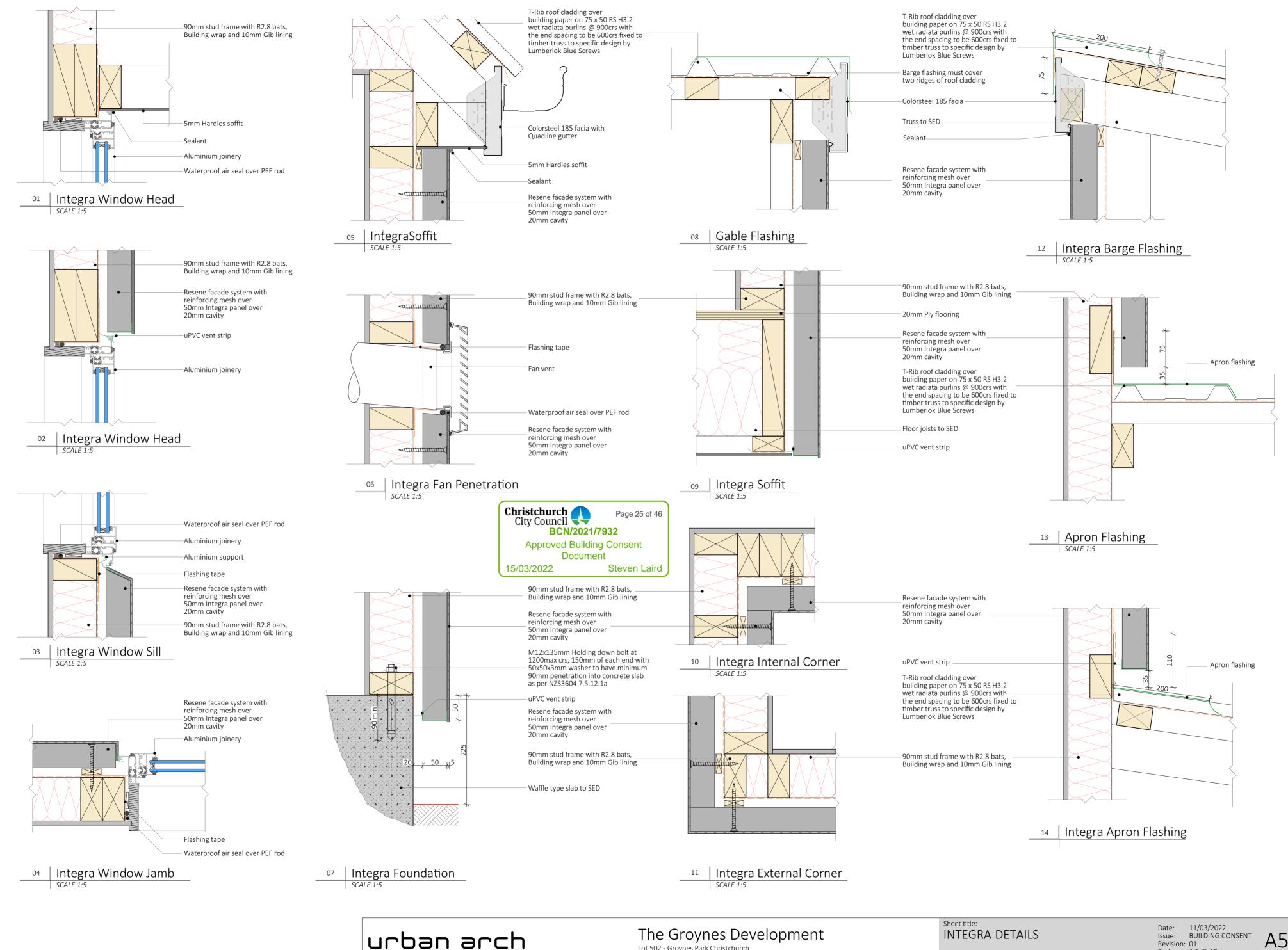


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Sheet title: AXON DETAILS

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:5 @ A2



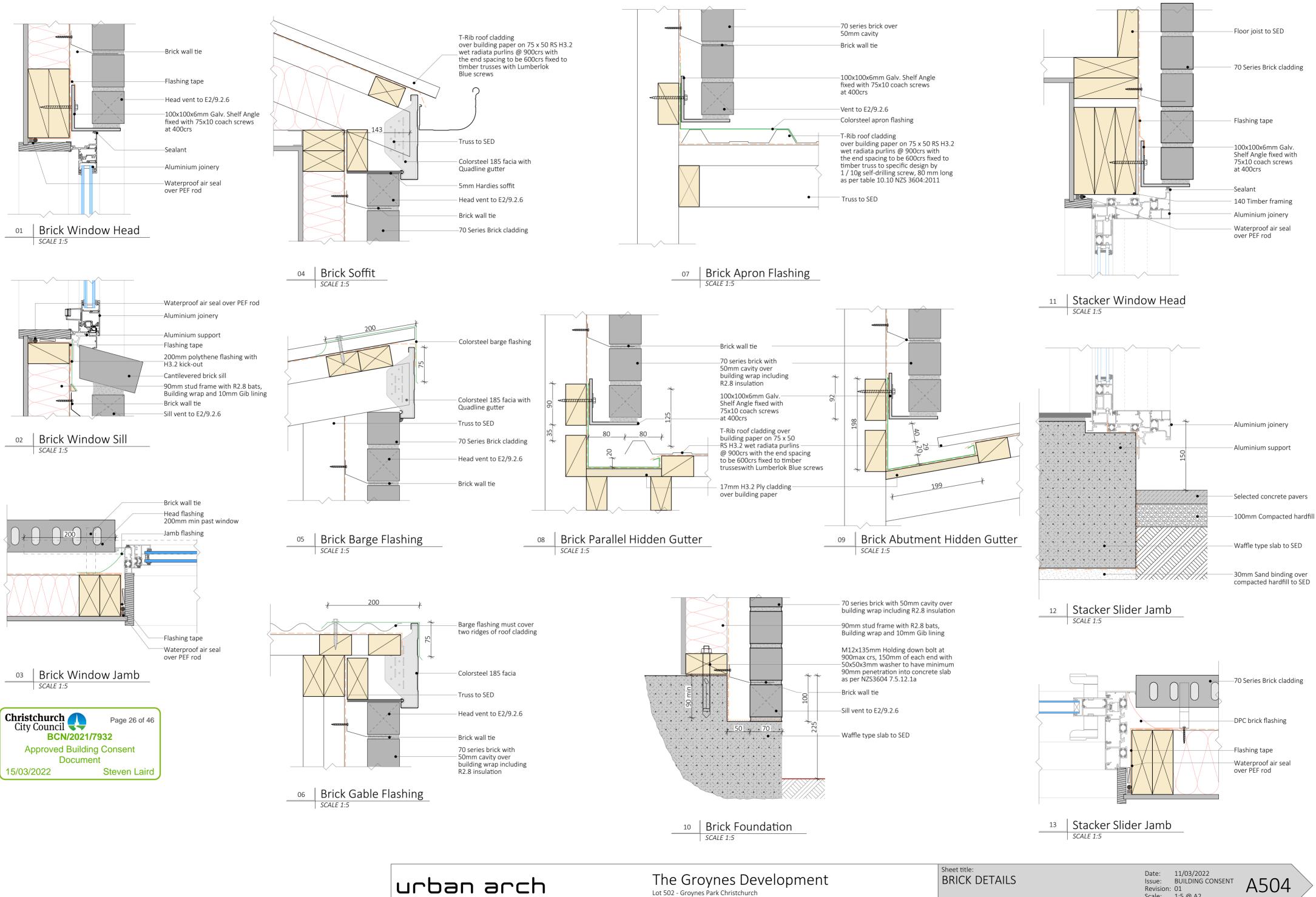


The Groynes Development Lot 502 - Groynes Park Christchurch

INTEGRA DETAILS

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:5 @ A2

A503

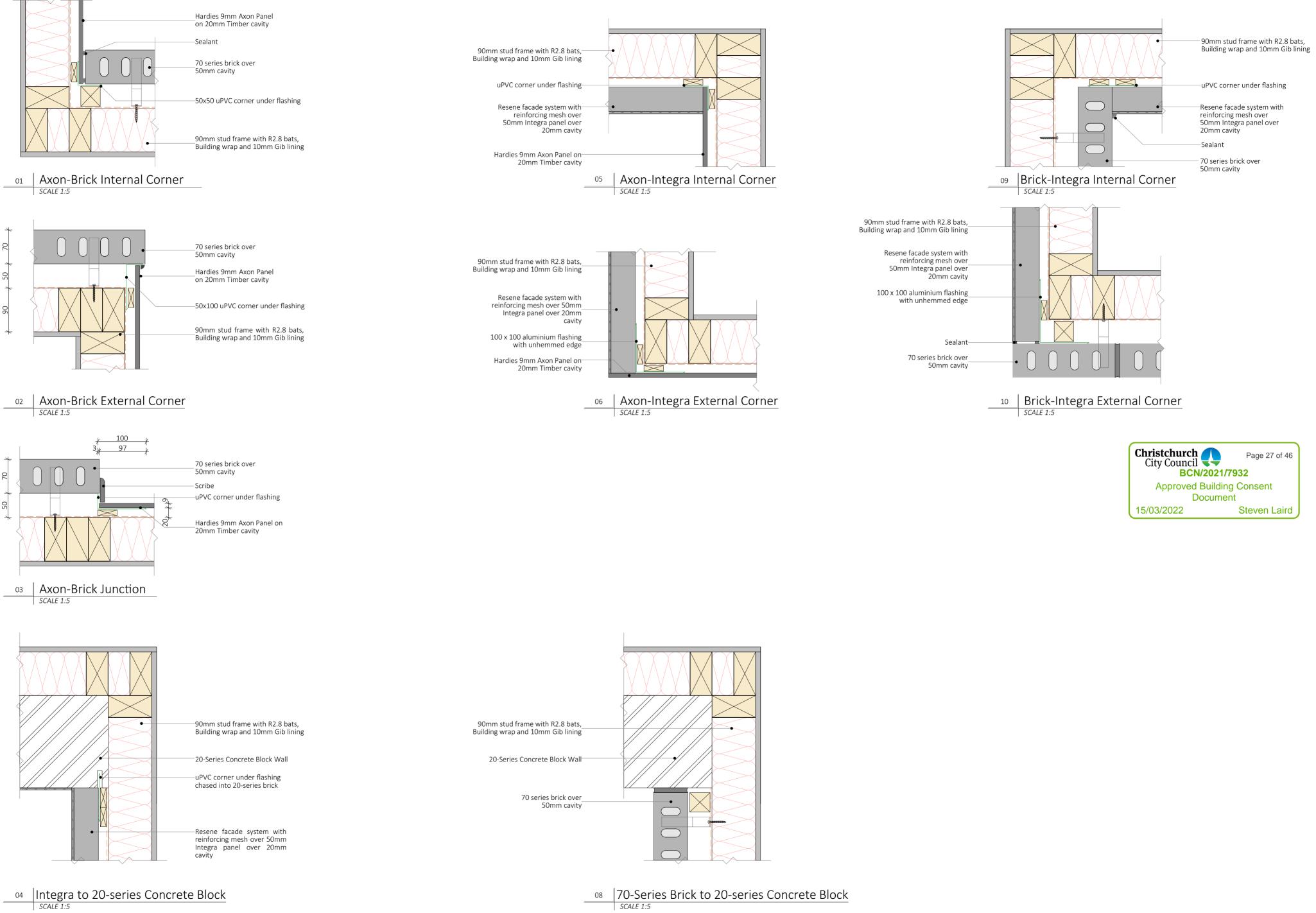


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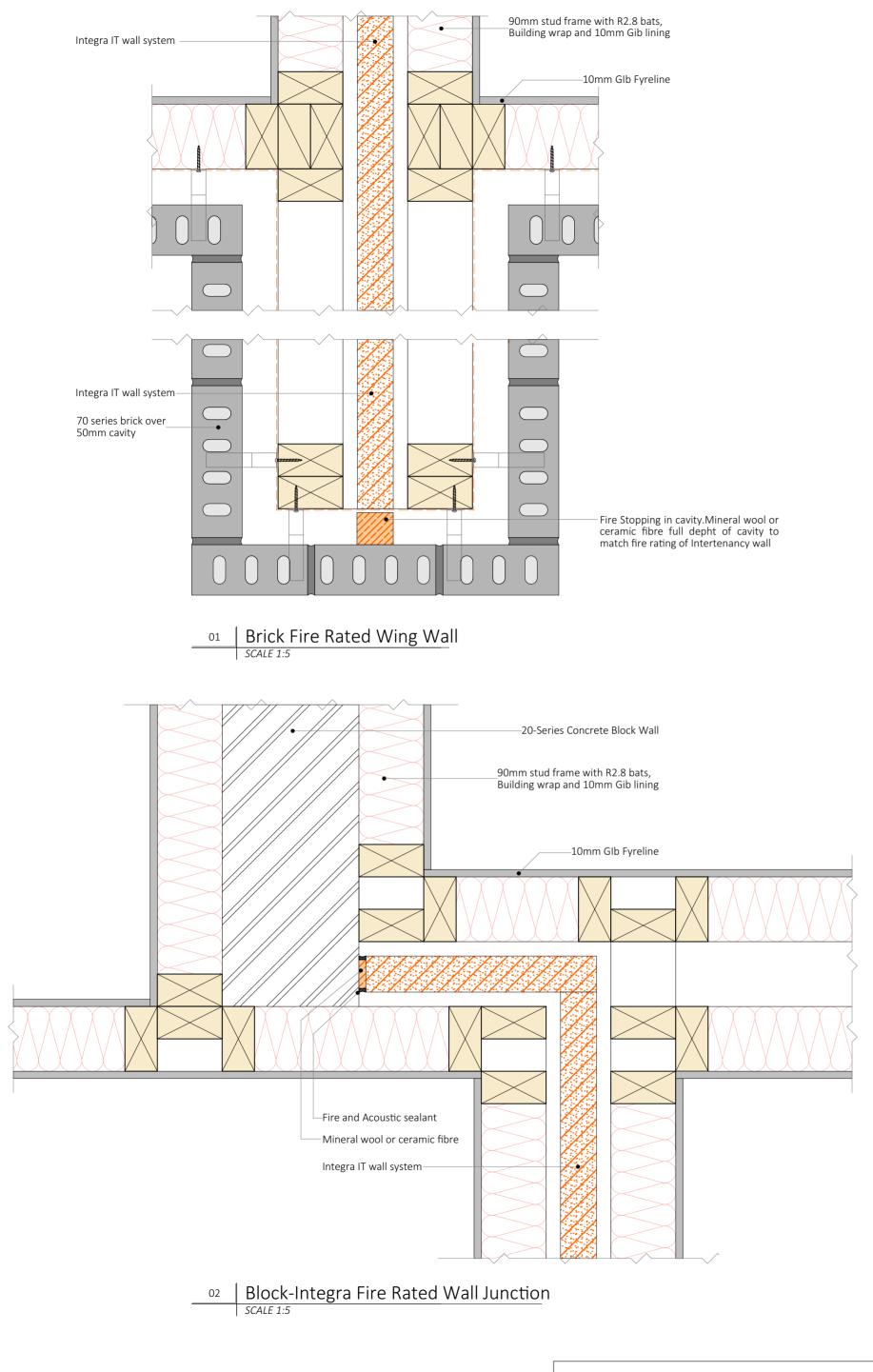
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The Groynes Development Lot 502 - Groynes Park Christchurch

Sheet title: PLAN DETAILS

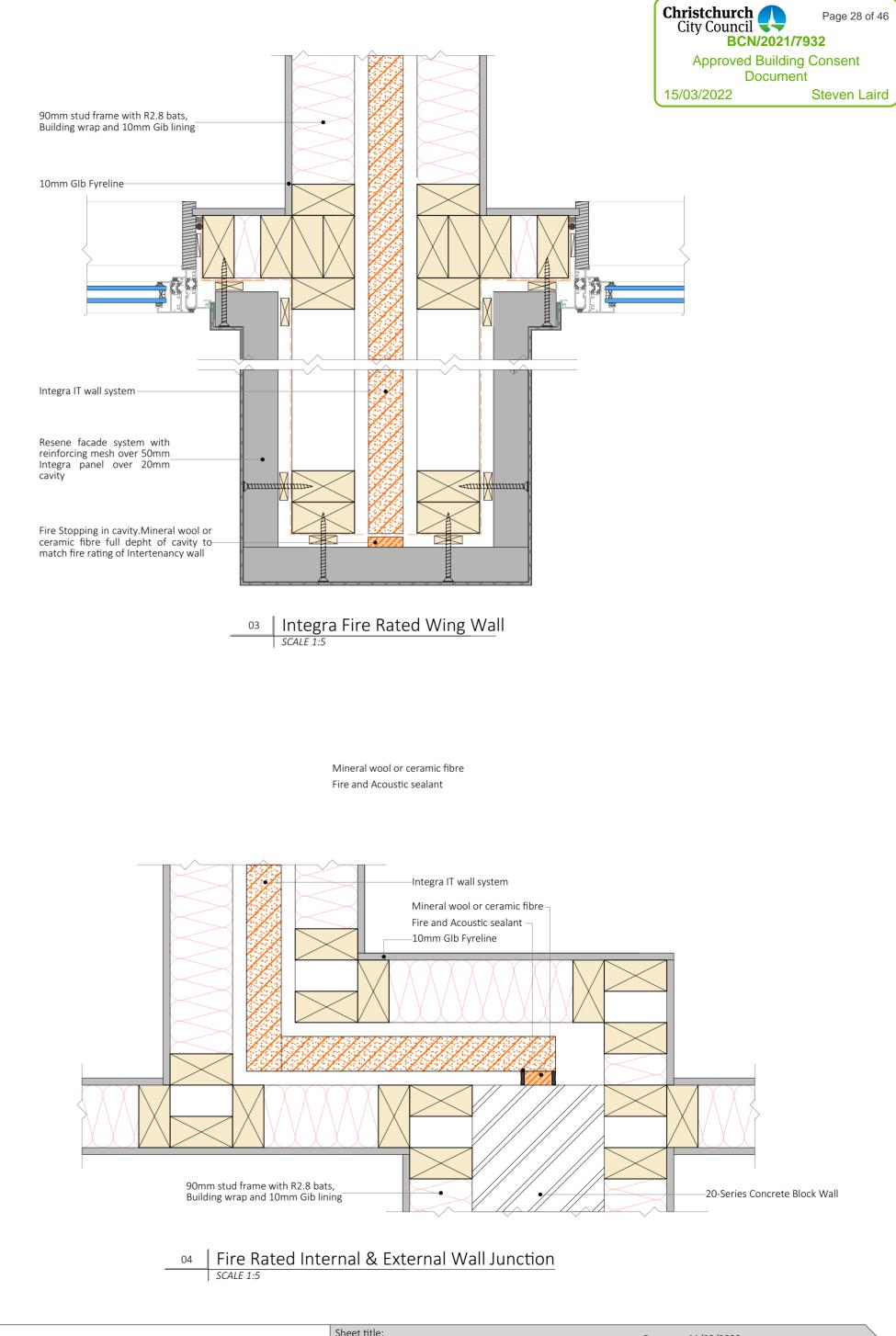
Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:5 @ A2





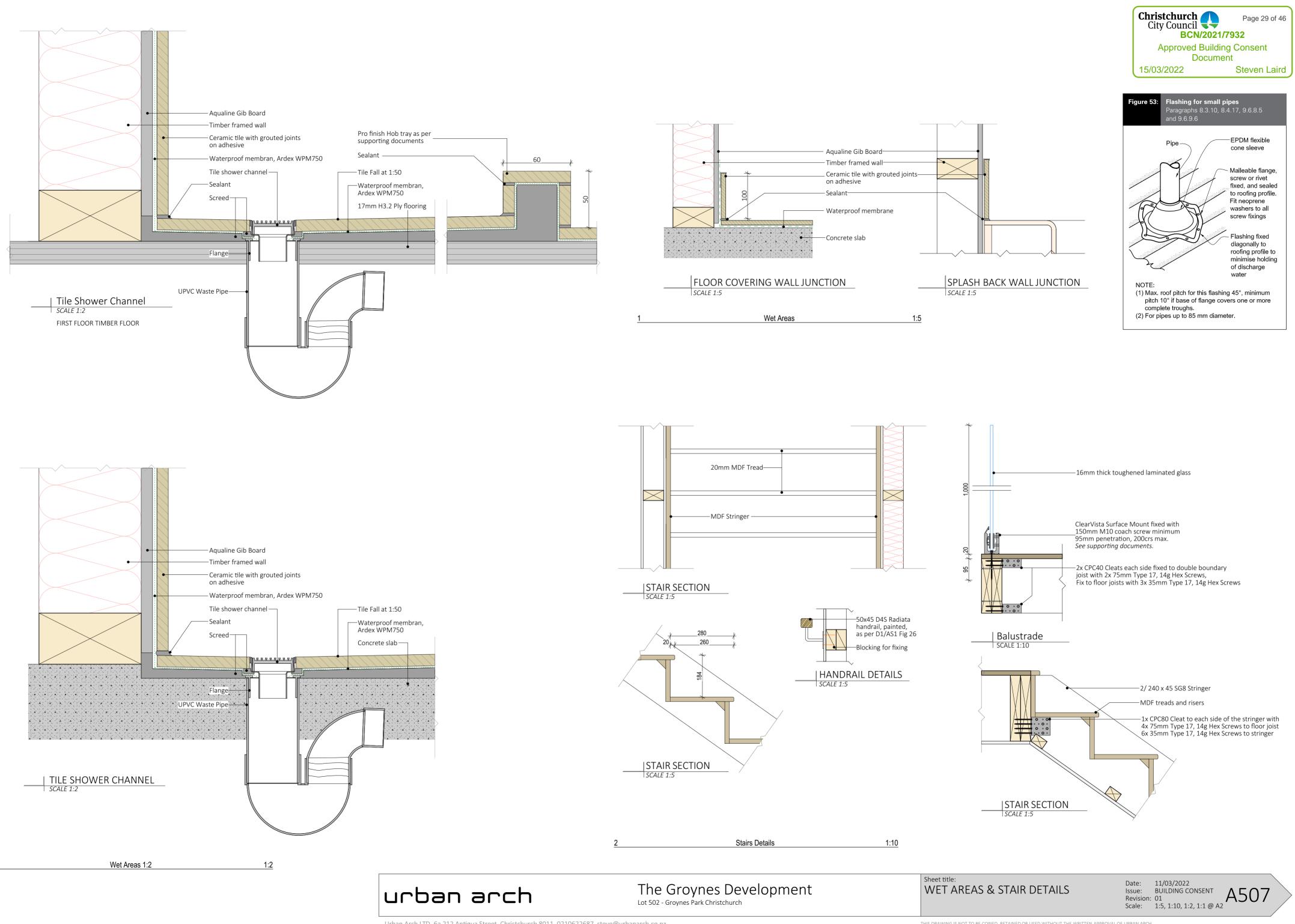




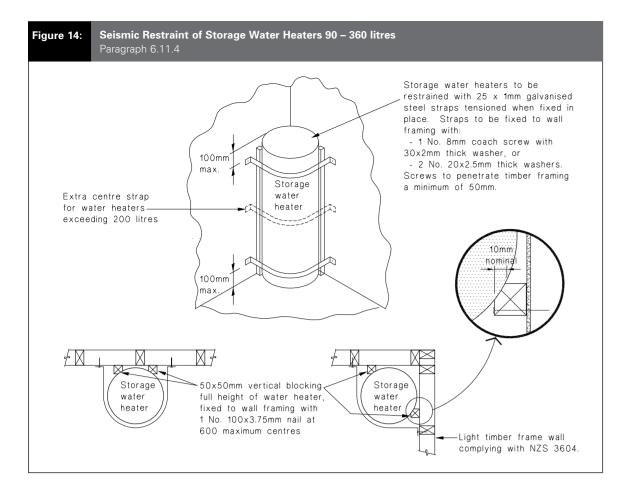


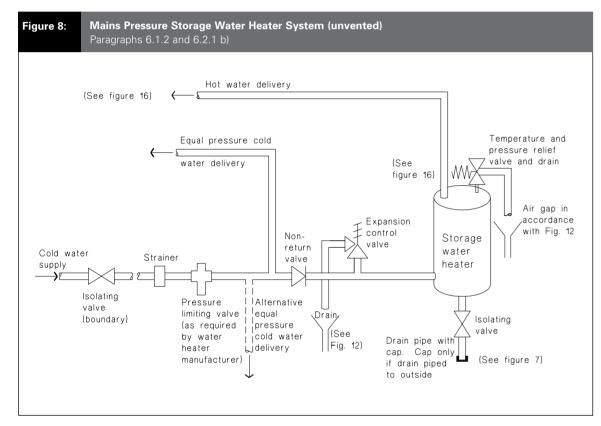
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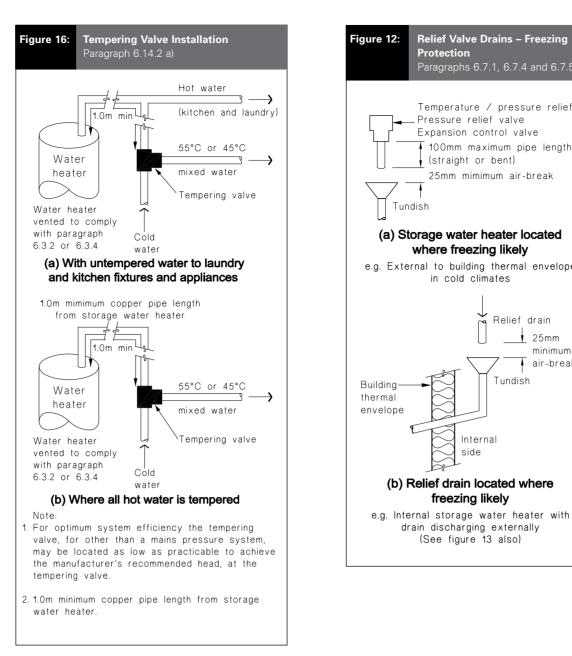
Sheet title: PLAN DETAILS



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Temperature / pressure relief valve Expansion control valve 100mm maximum pipe length (straight or bent) 25mm mimimum air-break

e.g. External to building thermal envelope in cold climates

> 🖌 Relief drain _____ 25mm minimum air-break Tundish

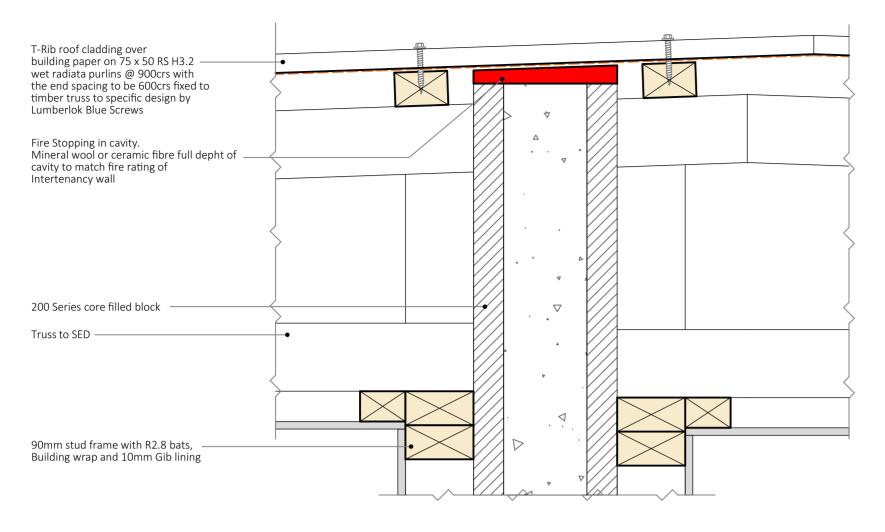
Internal

J side

freezing likely e.g. Internal storage water heater with drain discharging externally (See figure 13 also)

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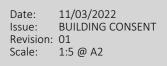


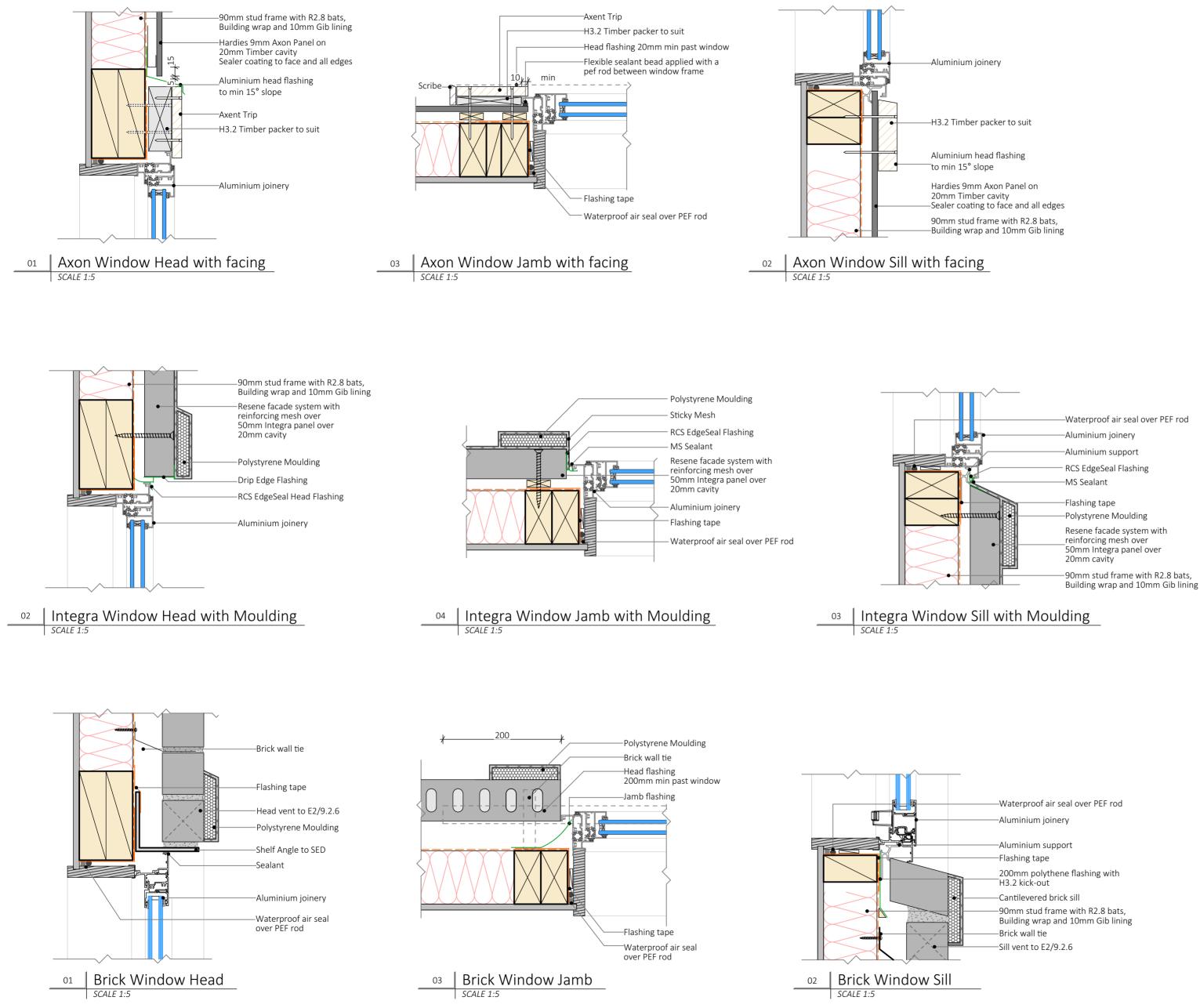
01 Block Wall Ridge Detail





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The Groynes Development Lot 502 - Groynes Park Christchurch

Sheet title: MOULDINGS AND TRIMS DETAIL

Date: 11/03/2022 Issue: BUILDING CONSENT Revision: 01 Scale: 1:5 @ A2

<u>Sheet No.</u>	Drawing Title	Revision
SO-01	DRAWING NOTES	D
S1-01	SITE PLAN	D
S5-01	UNITS 5 & 6 FOUNDATION PLAN	D
S5-02	UNITS 5 & 6 GROUND FLOOR PLAN	D
S5-03	UNITS 5 & 6 FIRST FLOOR PLAN	D
S5-04	UNITS 5 & 6 BRACING PLAN	D
S7-01	UNIT 7 FOUNDATION PLAN	D
S7-02	UNIT 7 BRACING PLAN	D
S8-01	UNIT 8 FOUNDATION PLAN	D
S8-02	UNIT 8 BRACING PLAN	D
S12-01	FOUNDATION DETAILS	D
S12-02	FOUNDATION DETAILS	D
S13-01	STEELWORK DETAILS	D

GROYNES PARK DEVELOPMENT BLOCK B - UNITS 5 TO 8 LOT 502 GROYNES PARK NORTHWOOD CHRISTCHURCH



Meraki Consulting STRUCTURAL ENGINEERS

CONSENT UPDATE 24 January 2022

Project Number: 20018





Drawings Notes & Specifications:

General:

Drawings to be read in conjunction with Architecture, Civil and Services Drawings. Refer to the Architects drawings for set out dimensions and levels.

All dimensions are to be confirmed on site before commencing fabrication. Dimensions shall not be obtained by scaling from drawings.

The Contractor shall complete all works in accordance with the New Zealand Building Code and the Health and Safety at Work Act 2015.

The Contractor shall take measures to identify and protect all existing services or divert where required.

The Contractor shall be responsible for the design and installation of all temporary works for the duration of construction.

Quality Assurance:

The Contractor shall take appropriate measures to ensure that the construction of the work complies with the drawings, specifications and all relevant Building Codes and Regulations. Suitable measures must also be taken to ensure sub-contracted work is compliant.

No variations or substitutions are allowed without prior written approval from the Engineer.

The Contractor shall provide a Producer Statement - Construction (PS3) once all the work is complete.

Excavation and Backfilling:

Excavation for foundations shall be made to the depth shown on the drawings or to a minimum of 'good ground' as defined by NZS3604. All soft spots shall be removed and backfilled with compacted gravel.

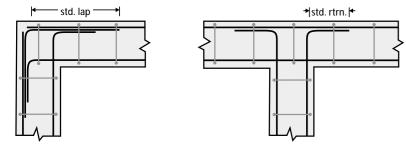
Where backfilling is required fill material shall be AP65 and shall be placed in layers not more than 200mm before compaction to 95% maximum dry density (MDD). The Contractor shall arrange to get nuclear densometer (NDM) testing completed to demonstrate >95% MDD has been achieved. The location and number of tests shall be confirmed with the Engineer prior to backfilling.

Foundations and Concrete Work:

All materials and workmanship shall comply with NZS3109. Surface finishes shall comply with NZS3114.

The concrete mix design for the waffle slab shall be Firth's RP2519TC2 mix (steel fibre reinforced concrete, 25MPa, 19mm aggregate).

At corners and junctions in foundation beams, all horizontal reinforcing shall lap as shown below:



All construction joints shall be clean and construction joint surfaces shall be scabbled to a minimum 5mm amplitude.

All hold down bolts and fixings into concrete shall be cast in UNO. Where post installed fixings are required fixings shall be drilled and epoxy grouted using Hilti HIT-RE500SD or Ramset Epcon C8 Extreme installed as per the manufacturers instructions. Embedment depths shall be as shown on the drawings, if unclear contact the Engineer for clarification.

Reinforcement:

Reinforcement shall be in accordance with AS/NZS4671, and shall be Seismic® Grade 300E/500E MA bar manufactured by Pacific Steel. All reinforcing other than stirrups and loops shall be deformed bars UNO. Bending of bars shall be in accordance with NZS 3109.

Provide minimum clear cover to reinforcement as shown below:

Location	Min cover (mm)
Foundations against formwork or DPM	50
Foundations against natural ground	75
External face of concrete	40
Internal face of concrete (top of slab)	35

The following abbreviations have been used on the drawings:

		•
R	Grade 300E plain round bar	
HR	Grade 500E plain round bars	
D	Grade 300E deformed bars	
HD	Grade 500E deformed bars	

Reinforcing lap lengths for deformed bars shall be as per the following, UNO on the drawings.

Bar Diameter	Lap Length* (mm)				
(mm)	Grade 300	Grade 500			
10	390	650			
12	470	780			
16	625	1050			
20	780	1300			
25	975	1625			
32	1250	2080			

*lap lengths may be reduced by a factor of 1.3 if less than 300mm of fresh concrete is poured below the reinforcing.

Concrete Floor Slabs on Grade:

A polyethylene damp-proof membrane (DPM), of minimum thickness 0.25mm, shall be laid below all floor slabs. Sheets shall be lapped by a minimum 150mm and sealed with pressure-sensitive plastic tape not less than 50mm wide.

For floor slabs on compacted hardfill a nominal 10mm-20mm surface blinding, of coarse sand or crusher dust, shall be placed.

Shrinkage control joints – saw cuts, where required, shall be placed to coincide with major changes of plan (eq. re-entrant corners. Saw cuts should be placed in orthogonal directions at approximately 4m apart, or as at indicated on the drawings. Saw cuts shall be 6mm wide and 1/3 the depth of the slab. The final location of saw cuts shall be confirmed with the Engineer and Architect prior to pour.

Concrete Blockwork:

All materials and workmanship shall comply with NZS4210. Concrete blockwork shall be constructed to Observation Type B as defined in NZS4230.

All vertical reinforcing bars shall be tied to starters. Clean out ports are required for high lift grouting (over 1.2m) and shall be located at every vertical bar location. HD16 trimmer bars shall be placed to all edges and openings, extend 1200mm past all openings. At corners, a vertical bar shall be placed on the inside of the horizontal bar returns. Horizontal bars shall have a standard 90 degree return at ends of wall. Reinforcing hooks and bends shall be in accordance with NZS3109.

Blockwork shall be grout filled with 20MPa coarse blockwork grout. A pre-approved expansive agent shall be used for all high lift grouting. The maximum grout lift shall be 3.6m.

Control joints shall be placed at no more than 8m apart.

Bracing:

All bracing to be installed as per the latest versions of the GIB EzyBrace System Manual, Ecoply Bracing Specification, or James Hardie Bracing Design Manual

Structural Steelwork:

All materials and workmanship shall comply with NZS 3 AS/NZS 1252 and AS/NZS 1554. Steel fabrication shall be certified to Construction Category 2.

Steel members shall be of the following grades UNO

- EA, UA and PFC Grade 300
- All plates and cleats shall be Grade 300 UNO
- All bolts shall be grade 8.8/S UNO on drawings.

The structural steelworker shall prepare and submit shop drawings to the Engineer for review. Allow a minimum of 5 working days for the Engineer to complete the shop drawing review. Do not commence fabrication prior to review being completed.

This site has a macroclimate corrosion category C2 as defined in NZS 2312. Steelwork shall be coated with a protection system in order to provide 15-25 years to first maintenance. Suitable paint systems as defined in NZS2312 include:

- For internal steelwork within the building envelope and not within an external wall or roof cavity (surface-specific atmospheric corrosivity C1): ALK1 or PUR1.
- For internal steelwork within an external wall or roof space with the steel on the cold side of the dew point (surface-specific atmospheric corrosivity C3): EHB4 or PUR3

Alternative paint systems may be used if prior approval is obtained from the Engineer. Refer to the Architect for finish coats for exposed steelwork.

The structural steelworker shall provide a Producer Statement – Construction (PS3) once all steelwork has been erected and installed as per the structural drawings and specification.

Where timber is to be attached to steelwork holes shall be installed in the steelwork to suit M12 bolts at spacings as shown on the drawings.

Timber:

All timber work shall be done in accordance with NZS3604:2011.

This site has been classified as a VERY HIGH wind zone and has a 1.0kPa snow load.

All timber shall be grade SG8 UNO. Timber, and all fixings, shall comply NZS3604 Section 4: Durability.

All bolts shall comply with AS/NZS1393. Bolts to timber shall have 50x50x3 galv washers UNO.

Where LVL beams have been specified, these shall be Futurebuild Structural LVL hySPAN treated to H1.2. Substitutions may be permitted - written approval shall be obtained from Engineer.

Construction Review:

Construction monitoring services for the structural work shall be provided for the following elements:

- Excavated subgrade prior to backfilling, placing of DPM, or placement of concrete - to be completed by the nominated Geotechnical Engineer.
- Pre-pour inspection for foundations
- Pre-pour inspection prior to grout filling of concrete blockwork
- Inspection of structural steelwork after erection
- Inspection of structural timber and connections shown on the drawings.
- Bracing pre-line inspection.
- Final construction.

The Contractor shall notify the Engineers, at least 48hrs in advance, when an inspection is required.

It is important to note that a Producer Statement – Construction Review (PS4) can only be issued for elements inspected by the Engineer.

404, AS/NZS 5131,	



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Do not scale off drawings

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P· +64 275922532



Address: 502 Groynes Park, Christchurch

Client: Urban Arch

Drawing Title:

Project:

Proj. No: 20018

DRAWING NOTES

Rev.	Date	Details	Drawn	Eng
С	22/09/2021	Consent Issue	СМ	СМ
D	24/01/2022	Consent Update	СМ	СМ
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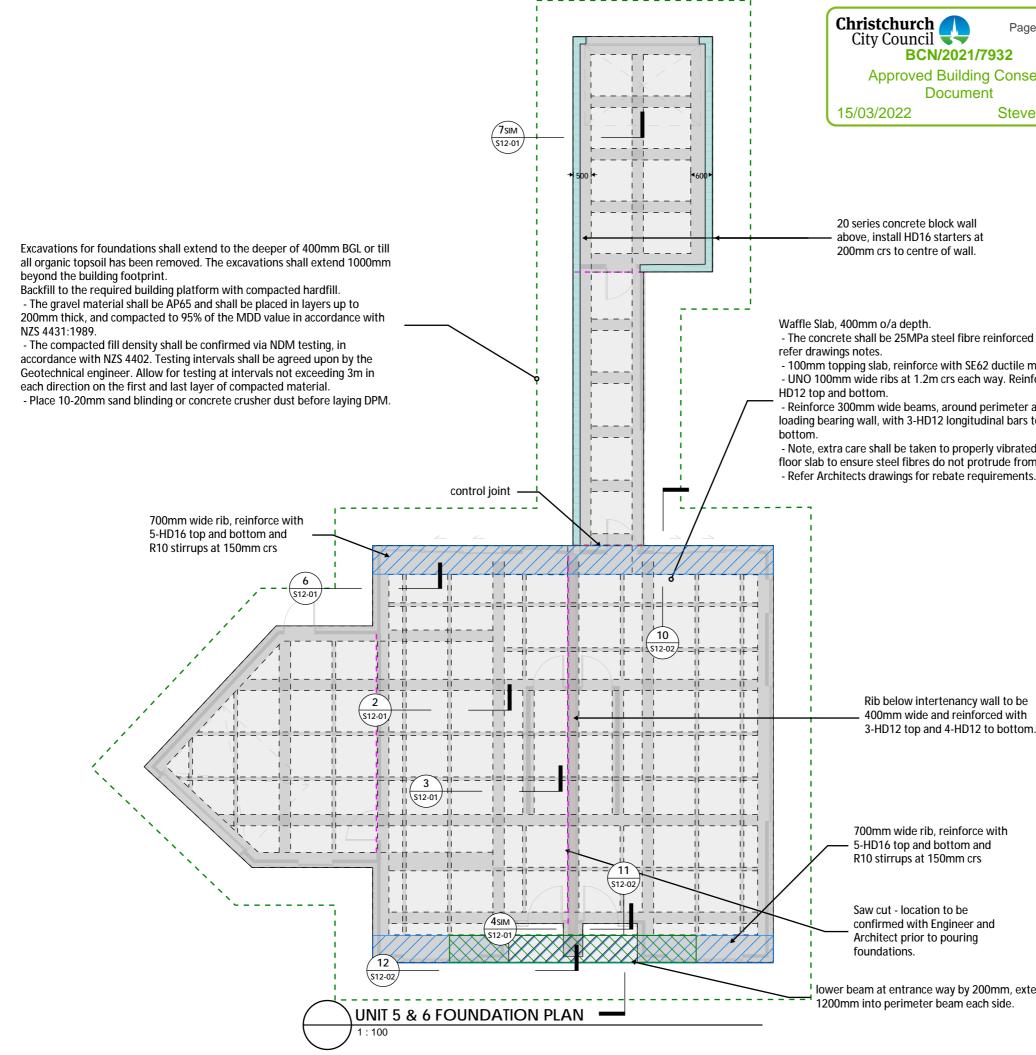
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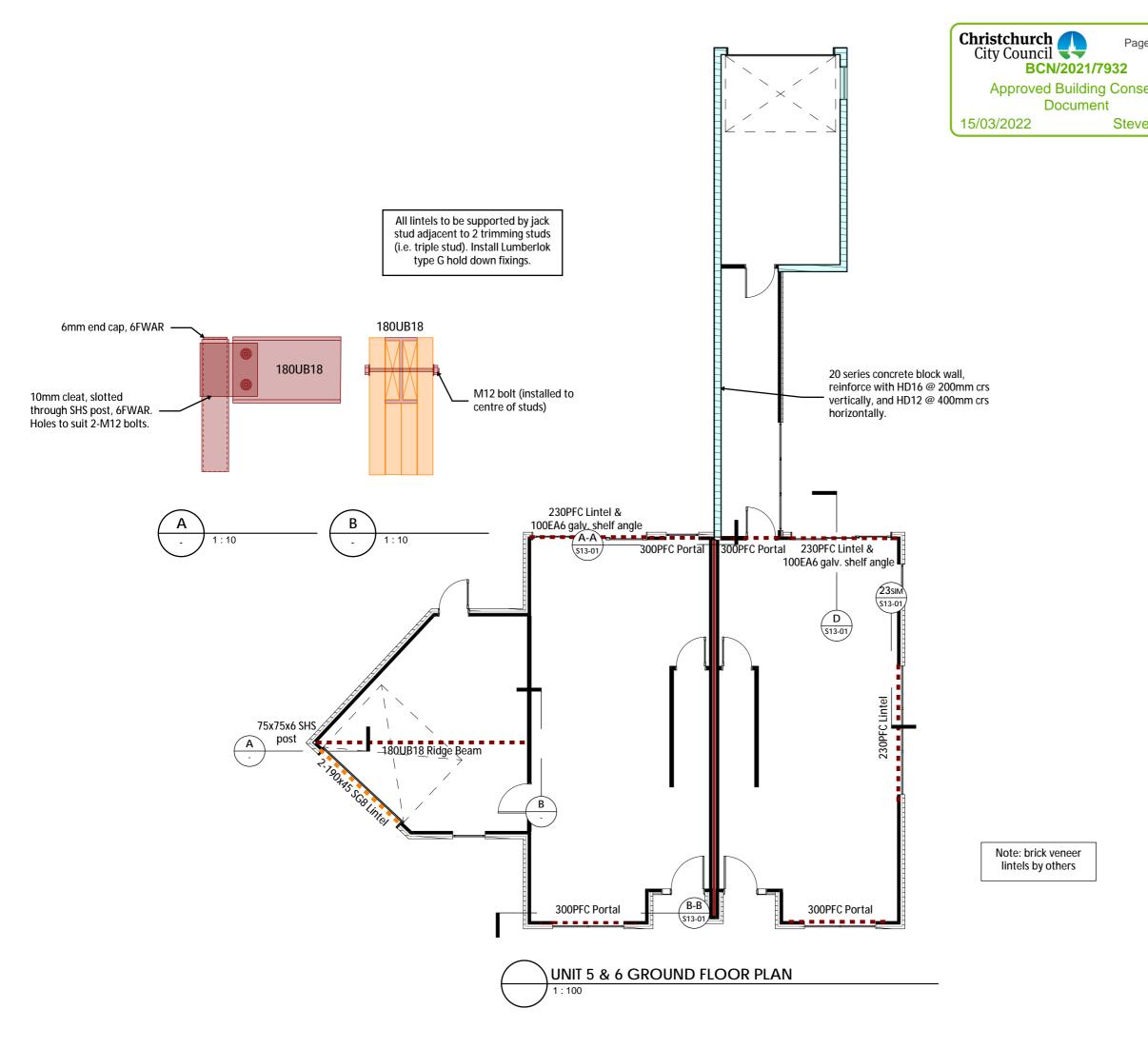
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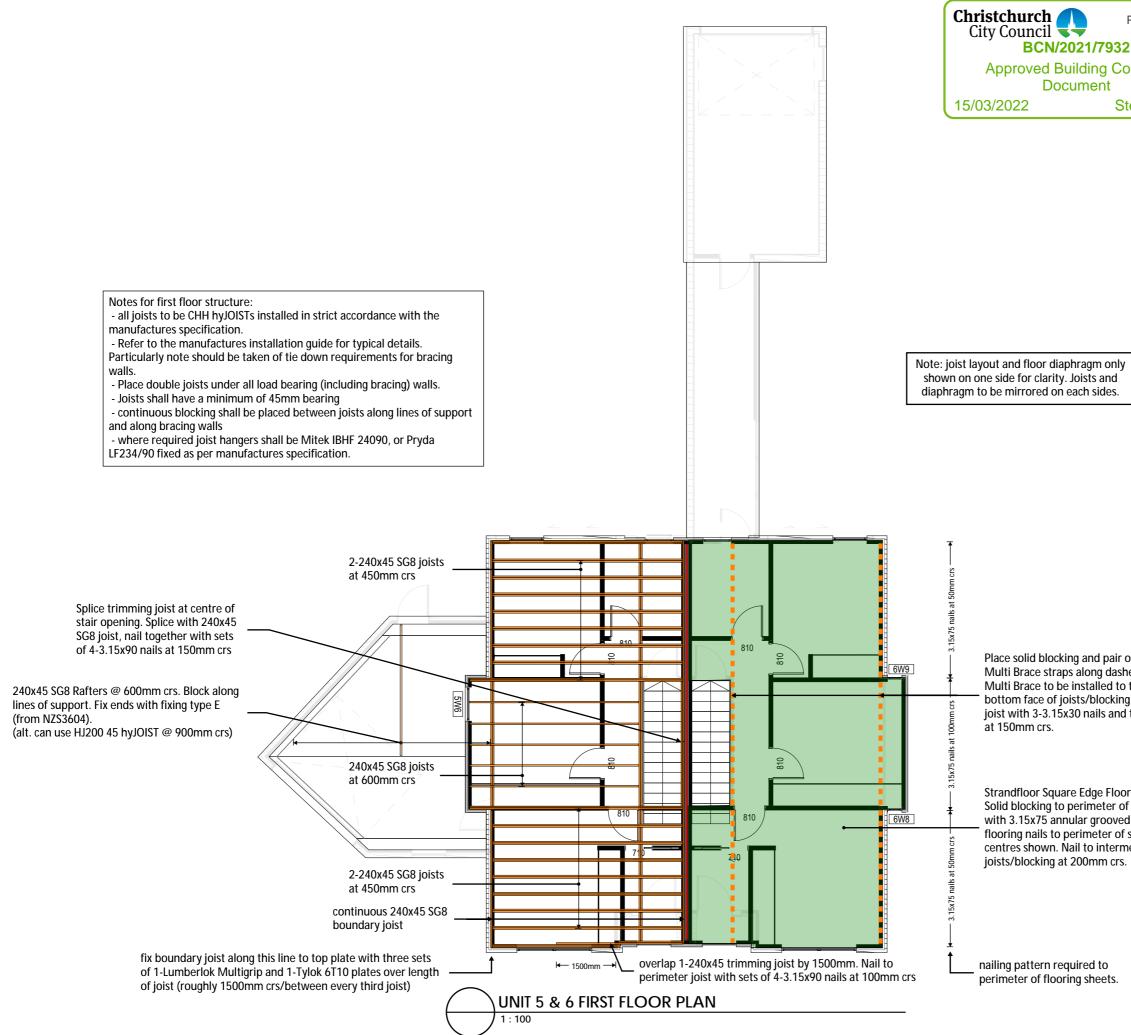
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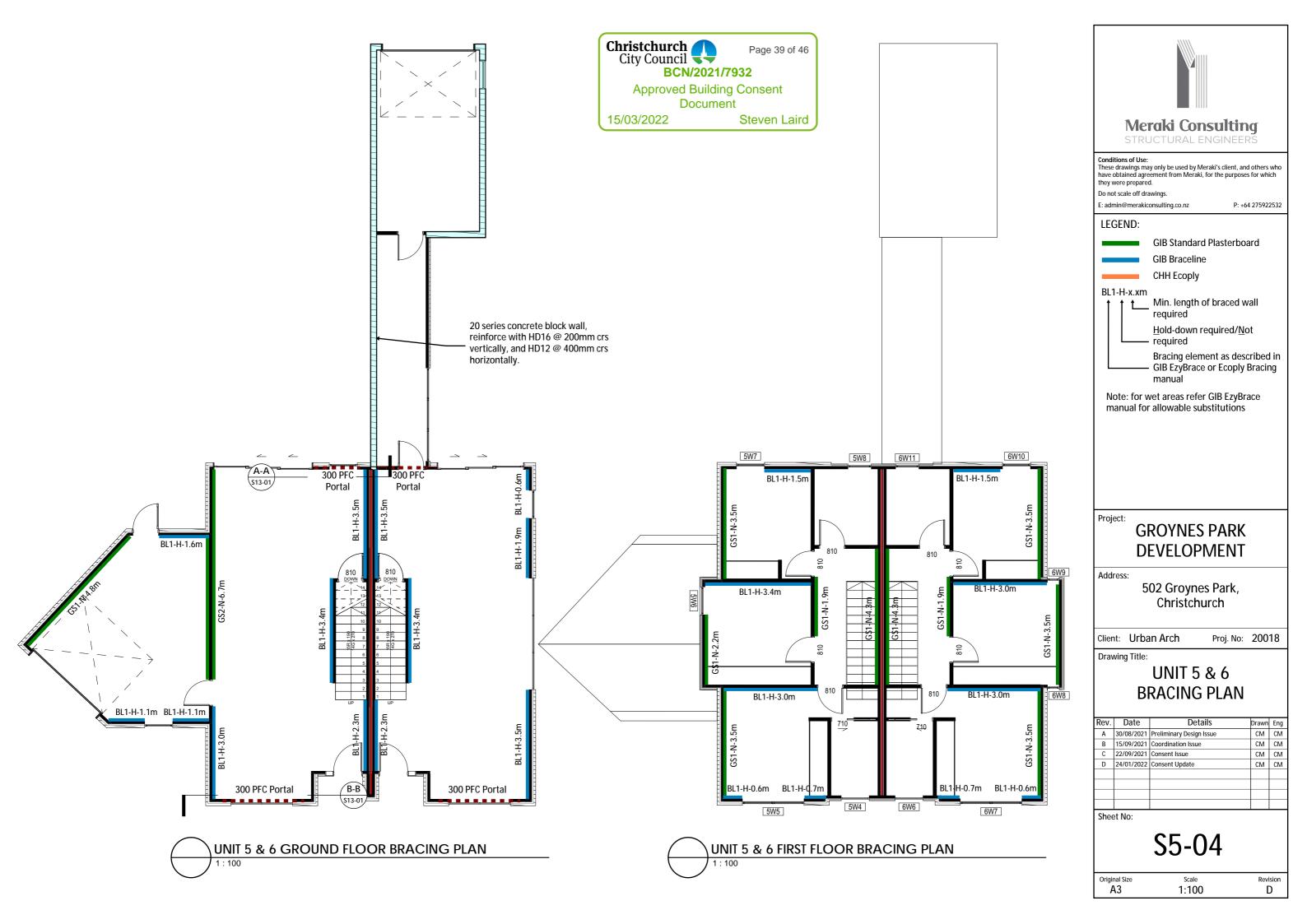
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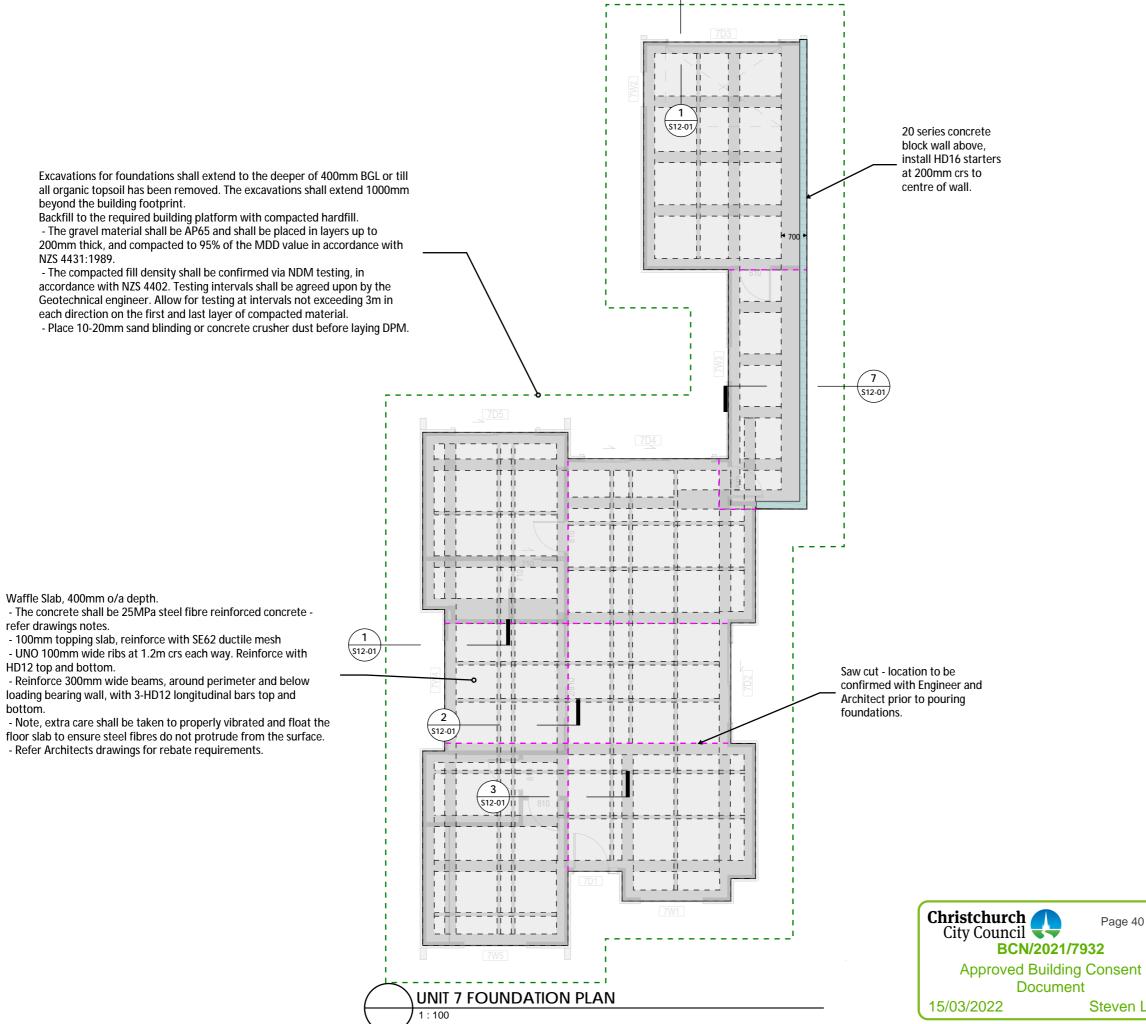


e 37 of 46 ent en Laird	Conditions of Use: These drawings may only be used by Meraki's client, and others who have obtained agreement from Meraki, for the purposes for which they were prepared. Do not scale off drawings. E: admin@merakiconsulting.co.nz P: r64 275922532
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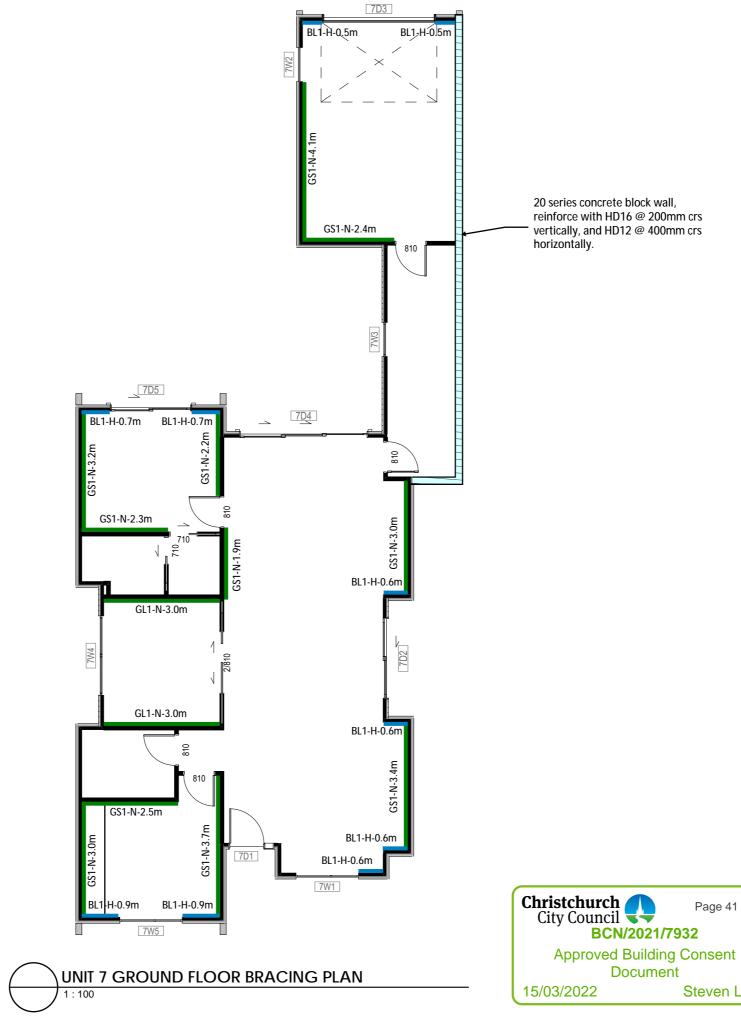
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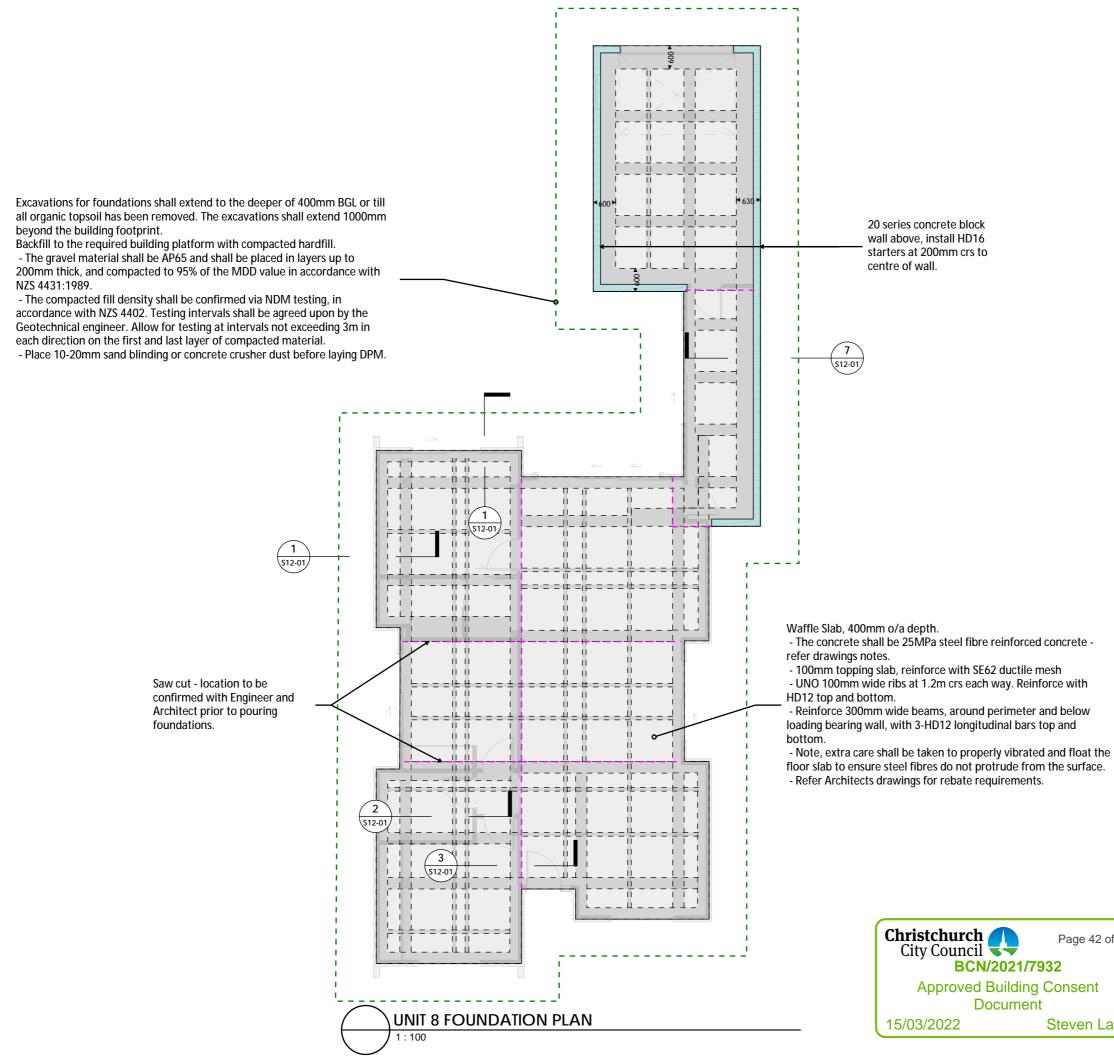
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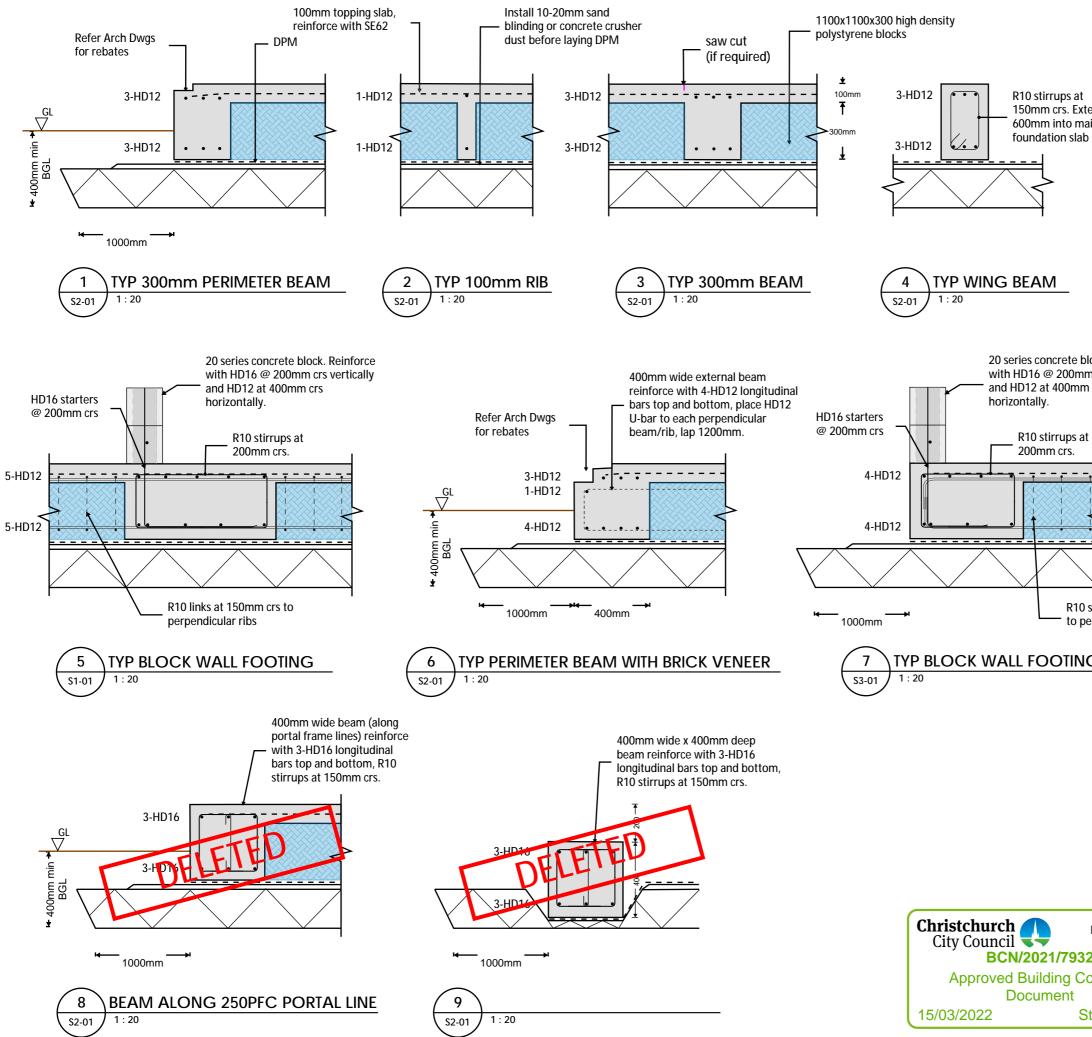
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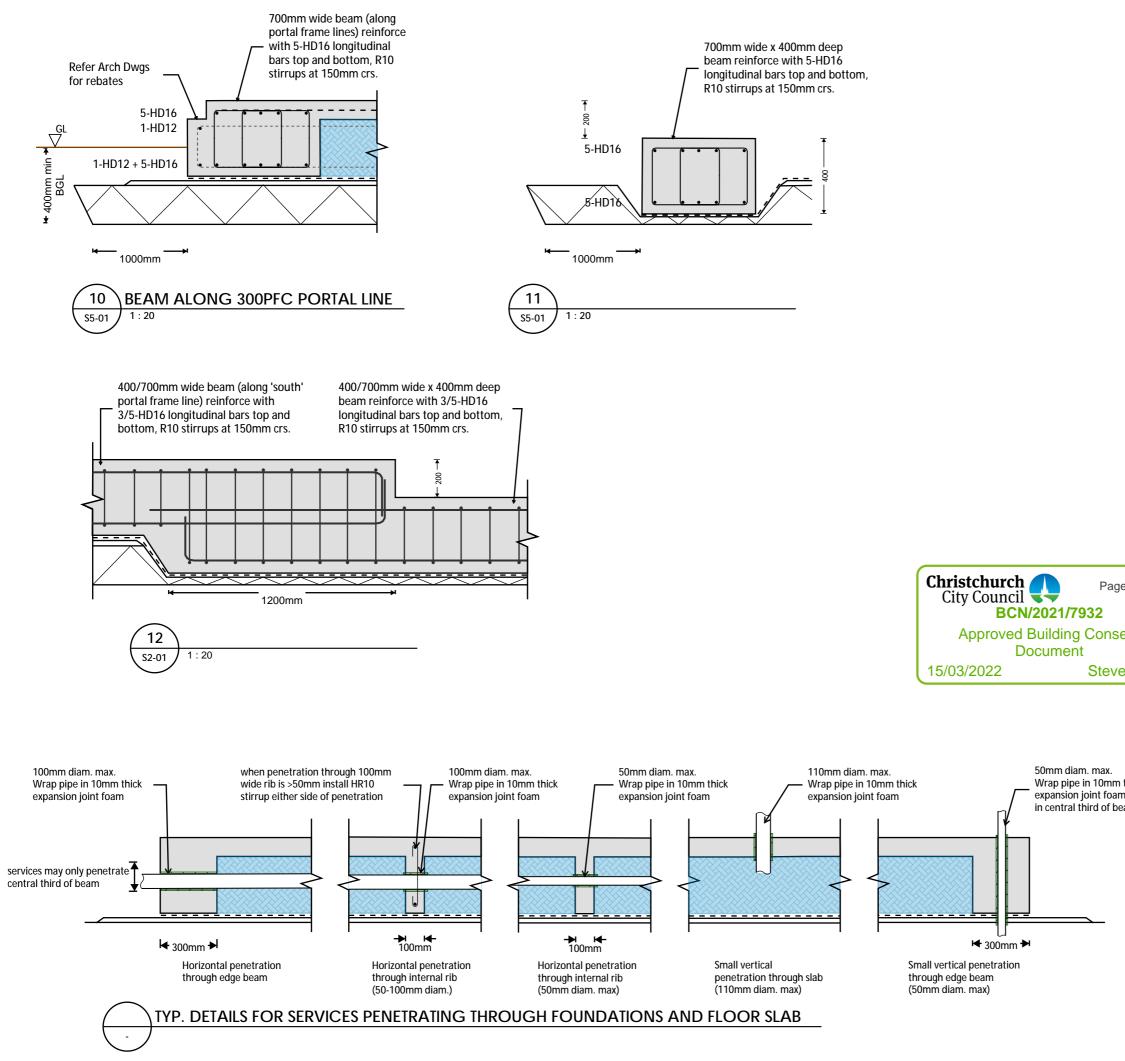
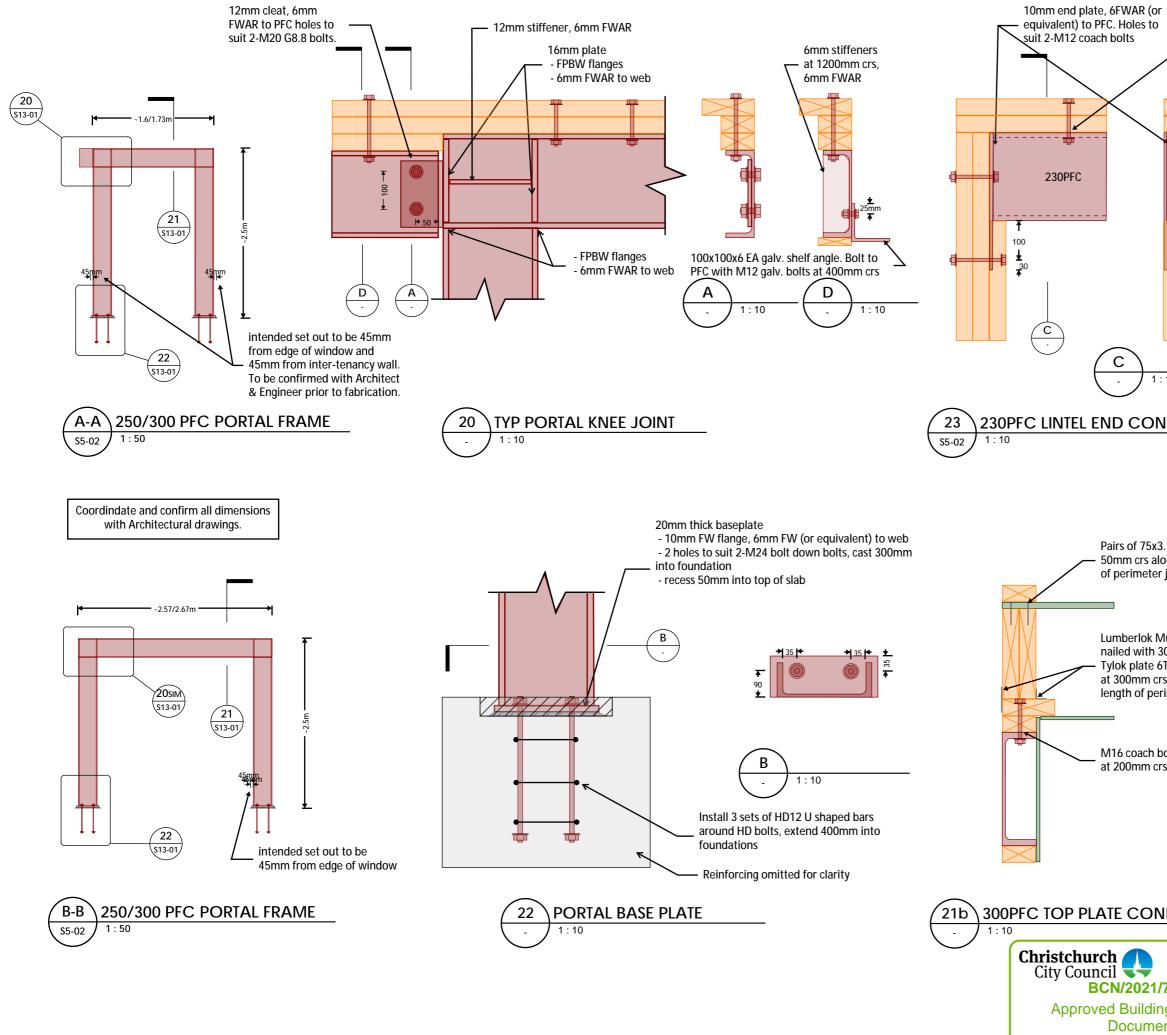


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