

STEEL BUILDINGS WHO CAN? TOTALSPAN!

SPECIFIC DESIGN

Gable Range Producer Statement and Structural Details

(IL2, Habitable, Lined*, Closed)

CLIENT:

Nathan Tritt 300 Homewood Road Otane 4277

BUILDING:

TRS Project Ref: 1550193

Location: Lat: -39.935776 Lng: 176.6435971

Wind Speed: Vdes Θ : 40.95 m/s Snow Loading: Sg = None Span: 7.000m Length: 12.000m Knee Height: 2.700m Bay Size: 2x6.000m

Roof Details: 15° pitch, 7 Rib 0.35mm

Cladding Details: 7 Rib 0.35mm Downpipe Size: 80mm Dia PVC

Floor Type: Concrete Slab (No Calculations)

Area: 84.000m²

INDEX:

- 1 Contents
- 2 Producer Statement / Specifications
- 3 Durability Statement
- 4 Site Plan
- 5-8 Engineering Tables
- 9 Foundation Details SD-F01
- 10 Foundation Details SD-F02
- 11 Foundation Details SD-F05.1
- 12 Frame Details SD-P01
- 13 Frame Details SD-P03
- 14 Frame Details SD-A01
- 15 Frame Details SD-A02
- 16 Major Openings SD-M01
- 17 Minor Door Openings SD-M05
- 18 Minor Window Openings SD-M06
- 19 Flashing Details
- 20 Flashing Detail SD-E01

APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 1 of 34
Central Hawkes Bay
District Council

*Bay 2 only to be lined with GIB on walls and ceiling. All other walls to be lined with R-board, with bridging at 1350 crs as per R-Board specifications.

NOTES:

- 1 Contractor to confirm all dimensions on site at time of construction
- 2 These drawings must not be reproduced without express permission from Spanbild New Zealand Limited.

TOTALSPAN

A Division of Spanbild New Zealand Ltd 112 Waterloo Road, Hornby P.O.Box 11-013, Christchurch Details

S P A N B I L D
DESIGN. MANUFACTURE. BUILD.

Gable Range - Design

Contents

Sheet 1 of 20





ISSUED BY: Calibre Consulting Ltd

TO: Totalspan Hawke's Bay



Central Hawke's Bay District Council

PRODUCER STATEMENT - PS1 - DESIGN

TO BE SUPPLIED TO:

Central Hawke's Bay DISTRICT COURCII

(Building Consent Authority)

Building Code Clause(s).....

APPROVED BC21000 22/02/202

Andrew Nichols GENERAL NOTES

Page 2 of 34

Central Hawkes Baw PORTANT DESIGN LIMITATIONS

District Council 1. Design limitations apply to any item or alteration not specifically stated or learly represented within the scope of these engineering specifications. This is a CAD drawing which must not be altered by manual methods, exceptions to this are:

- 1.1.1. The documentation clearly states where "generic" items can be crossed out, or the applicable detail circled to provide clarity.
- 1.1.2. Additional specific design has been carried out by a CPENG engineer with a PS1 supplied covering "part" design works for any ammedment/alterations. Alternative/Additional drawings shall be supplied or these specifications must be clearly marked up in red pen and accompanied by the PS1 engineer's signature on each drawing altered which is covered by the additional specific design,
- 1.1.3. A letter has been supplied in writing, signed by the original engineer(s) covering "minor" ammedments/alterations or clarifications to varying interpretations of the design drawings.
- able/Lined Buildings are not covered within this scope of work.

- 2.1. All work shall conform to the New Zealand Building Code 2.2.B2 Durability shall be covered by respective product/manufacturers durability statements
- LOADINGS
- 3.1. Buildings are designed to AS/NZS 1170
- 3.1.1. Refer Schedule for Windspeed, Vdesθ in m/s.
- 3.1.2. Refer Schedule for Ground Snow Load if applicable in kPa.
- 3.1.3. The roofing is not designed for point loads of 1.1kN, these are Surfaces (including transparent surface) over which supports (e.g., boards or ladders) are required to be laid to support actions incidental to maintenance (e.g., people).
- 3.1.4. Earthquake loads, except for "near fault" locations due to the light-weight structure are not critical for unlined. Importance Level 1 & 2 standard structures with cladding as specified below only.
- 3.1.5. Habitable/Lined or Importance Level 3 and greater structures require specific design engineering in addition to this specification covering the scope of works. (Importance Level 2 structures have been designed to resist "structural damage" deflections only).
- 3.1.6. Any loads exceeding the above shall require specific design engineering in addition to this specification covering the scope of works.

4 FOUNDATIONS

- 4.1. Ground shall have a safe bearing capacity of at least 75kPa (225kPa
- 4.1.1. This is achieved by meeting "good ground", safe bearing capacity of at least 100kPa in accordance with NZS 3604 (i.e. exceeds the above) OR;
- 4.1.2. Safe bearing capacity of at least 75kPa by Site Specific Geo-Technical Report (as NZS 3604 has no means of determining a minimum safe bearing of 75kPa).

5. CONCRETE

- 5.1.Designed to NZS 3101
- 5.2. Remove vegetation and loose material from the building footprint, backfill with compacted hard-fill if required and lay sand blinding to the underside of the concrete slab. Ensure the surface of the slab will be at least 100mm above the highest level of cleared ground around the slab.
- 5.3. Concrete shall have a maximum aggregate size of 20mm and minimum 20MPa compression strength at 28 days.
- 5.4. Refer Foundation Details for further details.
- 5.5.Lesser Ductile Mesh is allowed to be used for Importance Level 1 structures only
- 5.5.1. Refer NZS 3101 Clause 5.3.2.7 (a)

6. STEELWORK & COMPONENTS

- 6.1. All Steelwork & Components shall (where applicable) conform to:
- 6.1.1. AS/NZS 4600 Cold-formed steel structures
- 6.1.2. AS/NZS 1252 High strength steel bolts with associated nuts and .
- 6.1.3. AS/NZS 1365 Tolerances for flat-rolled steel products
- 6.1.4. AS/NZS 4505:2013 Garage doors and other large access doors 6.1.5. AS 1110 - ISO metric hexagon bolts and screws
- 6.1.6. AS 1112 ISO metric hexagon nuts...
- 6.1.7. AS 1397 Continuous hot-dip metallic coated steel sheet and strip 6.1.8. AS 1580 - Paints and related materials - Methods of test
- 6.1.9. AS 3566 Self-drilling screws for the building and construction industries
- 6.1.10.

SPECIFICATIONS

6.1.11. IFI-114(Imperial) / IFI-505(Metric) - Break Mandrel Blind Rivets

7. CLADDING

Steel only. Alternative claddings (excluding glass reinforced panel), require an independent specific design certificate for the scope of work.

- 7.2. Fixing pattern as per E2/AS1 or NZ MRM NZ Metal Roof and Wall Cladding Code of Practice.
- 7.3. Flashings shall be fixed as per manufacturers recommendations/instructions.

8. SERVICES

- 8.1.Penetrations through framing members
- 8.1.1. Typical hole diameter(s) shall not exceed 29mm (1 1/2 inch)
- 8.1.1.1. A single 44mm (1 ³/₄ inch) hole per C150, C250 or C300 section only is allowed to accommodate an up to 40mm waste water pipe
- Distance between holes along the section shall be no less than 8.1.2. 1000mm
- Holes shall be located: 8.1.3.
- 8.1.3.1. Central in the web, (within the centre 1/3 of the web depth)
- At least 200mm from the end of a member
- 8.1.4. Rubber grommets to be applied to un-swaged service holes
- 8.1.5. Larger and more frequently spaced holes are allowed, however please consult with an engineer first for written approval to ensure compliance with AS/NZS 4600.



© Copyright 2017 Spanbild NZ Ltd. All rights reserved.

Nathan Tritt 300 Homewood Road Otane 4277 0272031205

Gable Range - Design

Producer Statement / Specifications

Sheet 2 of 20

IN RESPECT OF: 7m span x 12m IL2 Habitable, Unlined portal building; DL=50yrs

(Description of Building Work) AT: 300 Homewood Road, Otane, 4277, New Zealand LOT: 2 DP: 344960 SO: We have been engaged by the owner/developer referred to above to provide Structural Design (Extent of Engagement) ✓ All or ☐ Part only (as specified in the attachment to this statement), of the proposed building work. The design carried out by us has been prepared in accordance with: Compliance Documents issued by the Ministry of Business, Innovation & Employment. B1/VM1, B1/VM4 or (verification method / acceptable solution) Alternative solution as per the attached schedule..... The proposed building work covered by this producer statement is described on the drawings titled Gable Range and numbered Sheets 1-2, 5-18 together with the specification, and other documents set out in the schedule attached to this statement. On behalf of the Design Firm, and subject to: (i) Site verification of the following design assumptions. good ground as per NZS3604, with UBC reduced to 225kPa. (ii) All proprietary products meeting their performance specification requirements; I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b), the persons who have undertaken the design have the necessary competency to do so. I also recommend the following level of construction monitoring/observation: CM1 CM2 CM3 CM4 CM5 (Engineering Categories) or as per agreement with owner/developer (Architectural) I, John McCurran am:

CPEng 48451 # □Reg Arch # I am a member of : ▼ Engineering New Zealand □NZIA and hold the following qualifications: BE.(civil)...... The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000* The Design Firm is a member of ACENZ: ON BEHALF OF Calibre Consulting Ltd Date 18 January 2021 Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the

PRODUCER STATEMENT PS1 October 2013 (reissued October 2017)

Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building

Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000*

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.

THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, ENGINEERING NEW ZEALZND AND NZIA

MANUFACTURERS STATEMENT - DURABILITY

Cladding

To satisfy the requirements of Clause B2:"Durability" of the NZBC and to ensure the cladding material meets a 15-year durability life and a 50 year intended working life (design life), the following provisions must apply:

Cladding Range of Product and Use

Coating Type: Zinc/Aluminium & Painted (Coloured Steel).

Steel thickness range: 0.35mm - 0.55mm BMT

• Steel grade range: G300 - G550

· Application: Standard Totalspan Roof and Wall Cladding

Profile: Totalspan 7 Rib, Totalspan 6 Rib, Totalspan Corrugate

Requirements, Limitations and Exclusions

- Fixing and installation of the cladding must be done exactly in accordance with Totalspan Buildings instructions and specifications.
- Normal and regular maintenance must be carried out on the exterior surface of the cladding and the following guide must be followed to ensure the durability requirements are met.

Regular Maintenance

- · Normal Maintenance to be completed in accordance with Durability Acceptable Solution B2/AS 2.1.3
- Corrosion Zones B and C.. (*Reference NZS 3604:2011 Corrosion Zone Figure 4.2)

Rain-washing only required on exposed (open to airborne salts and rain wetting) material. Sheltered (open to airborne salts, but not rain washed) or protected areas such as under spouting, top-cladding sheets and tops of doors require washing every 3 months.

 Sea Spray Zone D (Includes all off-shore islands, the area within 500m of the coastline of New Zealand, and those areas shown in white - *Reference NZS 3604:2011 Figure 4.2) and areas of Geothermal Activity (*Reference NZS 3604:2011 4.2.4 (c)).

Rain-washing only required on exposed (open to airborne salts and rain wetting) areas. Sheltered (open to airborne salts, but not rain washed) and protected areas such as under spouting, top cladding and tops of doors require washing down every month and whenever corrosive salts are present.

Extended Maintenance, Painting or Repainting

Extended Durability

Once the metallic coating or the paint system has weathered away, signs of red rust for bare material or signs of the metallic coating for painted material, painting of the entire surface is required to extend the life of the product. Paint manufacturers recommendations are to be followed for surface preparation and paint type to be used.

Evident Corrosion

- Areas that show signs of white or red rust/corrosion (typically in unwashed areas) require cleaning back with a stiff brush and cleaner to remove all dust, surface contaminants and corrosion products and present a sound substrate for painting. Priming of the surface and application of two coats of paint as per the Paint Manufacturer's recommendations is then required.
- Particular attention needs to be paid to laps (side, end, flashing etc) where earlier corrosion may start due to moisture and dirt entrapment.

If evident corrosion is not treated quickly rapid deterioration of the sheet may occur which could result in perforation. At this stage replacement of the affected sheet is the best option.

Steel Framing

To satisfy the requirements of Clause B2:"Durability" of the NZBC and to ensure the structural framing material meets a 50-year durability life the following provisions must apply:

Steel Framing Range of Product and Use

Coating Type: Galvanised

Steel thickness range: 0.75mm – 2.4mm BMT

• Steel grade range: G450 – G550

· Application: Standard Totalspan Purlins, Girts, Portal Frames, Door Jambs, Wall Uprights, Bridging

• Profile: C Sections – 80x40, 150x64, 220x64, 250x85

Z Sections - 100x53, 150x65

Tophat Sections - 100x163, 120x170, 150x183

Awnings/Garaports attached to Base Buildings

 Where sections are exposed to or located in salt marine, corrosive industrial or unusually high corrosive environments the below Regular Maintenance must be adhered to.

Please contact the manufacturer for specialist advice if unsure of requirements. This also applies to all Steelwork that is exposed to the wind but is protected from the rain located in an open sided structure such as carports, awnings or structures closed in on one side only.

Maintenance is necessary when the Galvanised coating ceases to provide sacrificial protection to the steel base, or where the appearance is no longer aesthetically acceptable. Rust staining or the growth of rust spots usually indicates the breakdown of Galvanised coating. At the first sign of breakdown, the surface should be treated with an appropriate maintenance coating system. All maintenance should be carried out in accordance with AS/NZS 2312: 2002 (Incorporating Amendment No. 1) [c] and New Zealand Steelwork Corrosion Coatings Guide (HERA Report R4-133) [d].

Regular inspections of the steel work and maintenance at the first signs of a problem will extend the durability of the sections. If any of the structure components show signs of corrosion during normal maintenance these are also easily accessible and simple to replace.

Regular Maintenance

• Normal Maintenance to be completed in accordance with Durability - Acceptable Solution B2/AS 2.1.3 Corrosion Zones B and C. (*Reference NZS 3604:2011 Corrosion Zone Figure 4.2)

Rain-washing only required on exposed (open to airborne salts and rain wetting) material. Sheltered (open to airborne salts, but not rain washed)or protected areas such as under spouting. top-cladding sheets and tops of doors require washing every 3 months.

 Sea Spray Zone D (Includes all off-shore islands, the area within 500m of the coastline of New Zealand, and those areas shown in white - *Reference NZS 3604:2011 Figure 4.2) and areas of Geothermal Activity (*Reference NZS 3604:2011 4.2.4 (c)).

Rain-washing only required on exposed (open to airborne salts and rain wetting) areas Sheltered (open to airborne salts, but not rain washed) and protected areas such as under spouting, top cladding and tops of doors require washing down every month and whenever corrosive salts are present.

References

- NZBC Compliance Document Clause B2 Durability
- 2. NZS 3604, Clause 4, Durability*
- * Totalspan Buildings acknowledges and understands that NZS 3604 is a Timber Framed Building standard. Totalspan Buildings has used NZS 3604 as a reference only to identify Corrosion Zones, Sea Spray Zones and areas of Thermal activity.

Totalspan Buildings 112 Waterloo Rd Sockburn CHRISTCHURCH

APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 3 of 34
Central Hawkes Bay
District Council



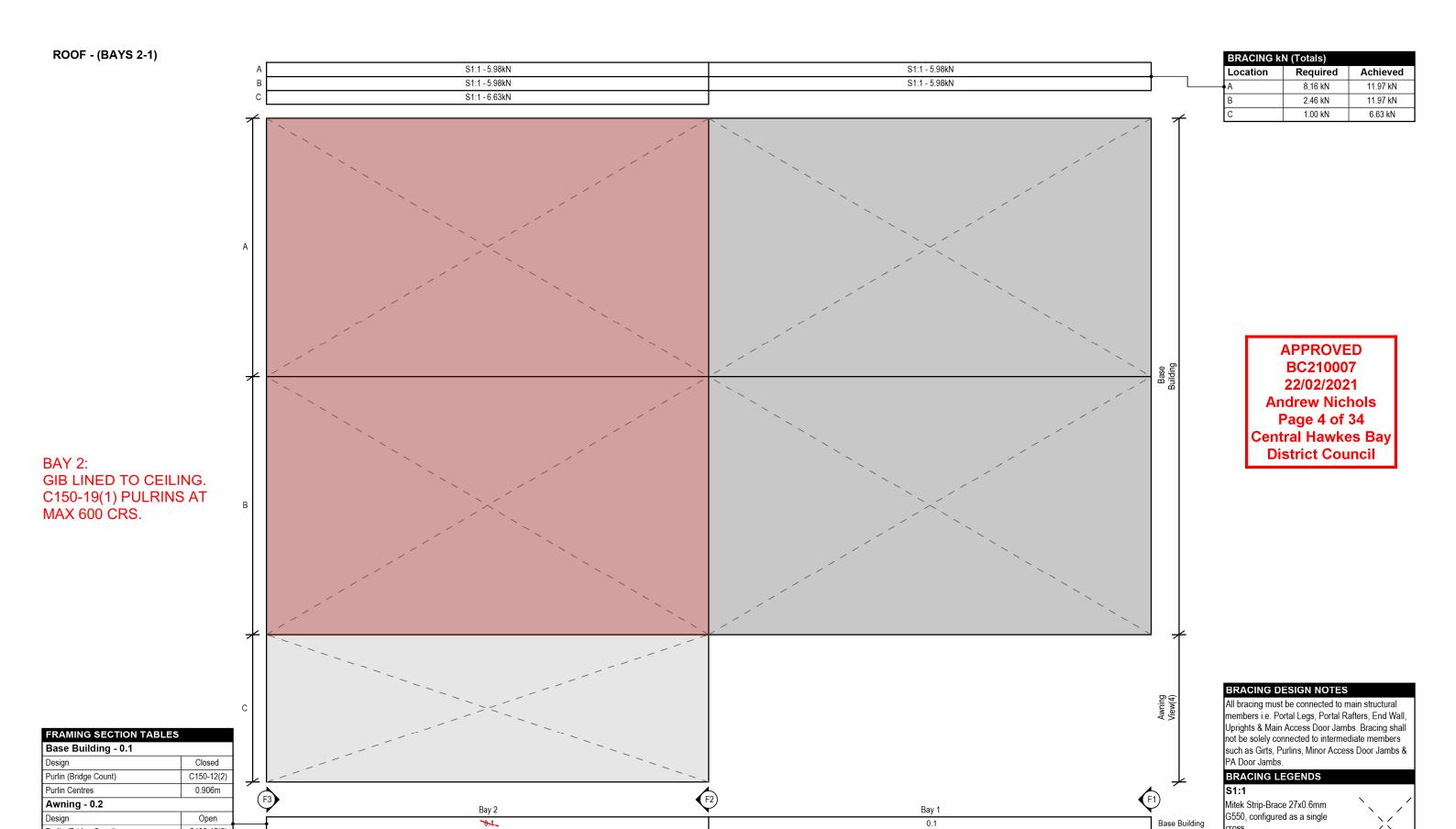
© Copyright 2017 Spanbild NZ Ltd. All rights reserved.

Nathan Tritt 300 Homewood Road Otane 4277 0272031205

Gable Range

Durability Statement

Sheet 3 of 20





Purlin (Bridge Count)

Purlin Centres

C100-15(2)

0.669m



0.2

Project Ref: 1550193

© Copyright 2017 Spanbild NZ Ltd. All rights reserved.

Nathan Tritt 300 Homewood Road Otane 4277 0272031205 Gable Range - Design

Engineering Tables

Sheet 5 of 20

Awning (View 4)

BRACING kN (Totals)
Required 11.75 kN
Achieved (Failed) 12.50 kN
Transferred to Opposite Wall 5.31 kN

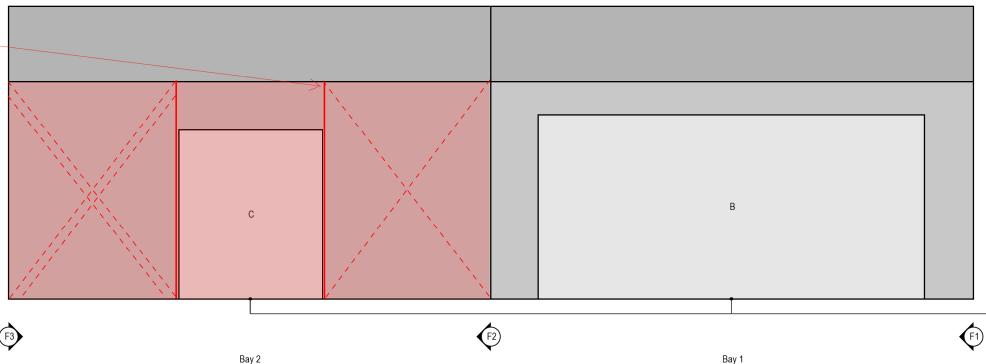
VIEW 4 - BUILDING SIDE (BAYS 2-1)

EXTEND C10015 JAMBS FROM SLAB TO KNEE HEIGHT.

> BAY 2 LINED WITH GIB, GIRTS TO BE C80-75(1) AT 600 CRS.



FRAMING SECTION TABLES	
Base Building - 4.1	
Design	Closed
Girt (Bridge Count)	C100-15(2)
Girt Centres	0.600m



BRACING kN (Totals)	
Required	11.75 kN
Achieved	12.50 kN
Transferred to Opposite Wall	5.31 kN

B150-10

B150-10

C100-15

OPENING SECTION TABLES

Opening - B

Opening - C

Jambs & Head Beam

Head Beam

VIEWS 2 1

APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 5 of 34
Central Hawkes Bay
District Council



4.1

Project Ref: 1550193

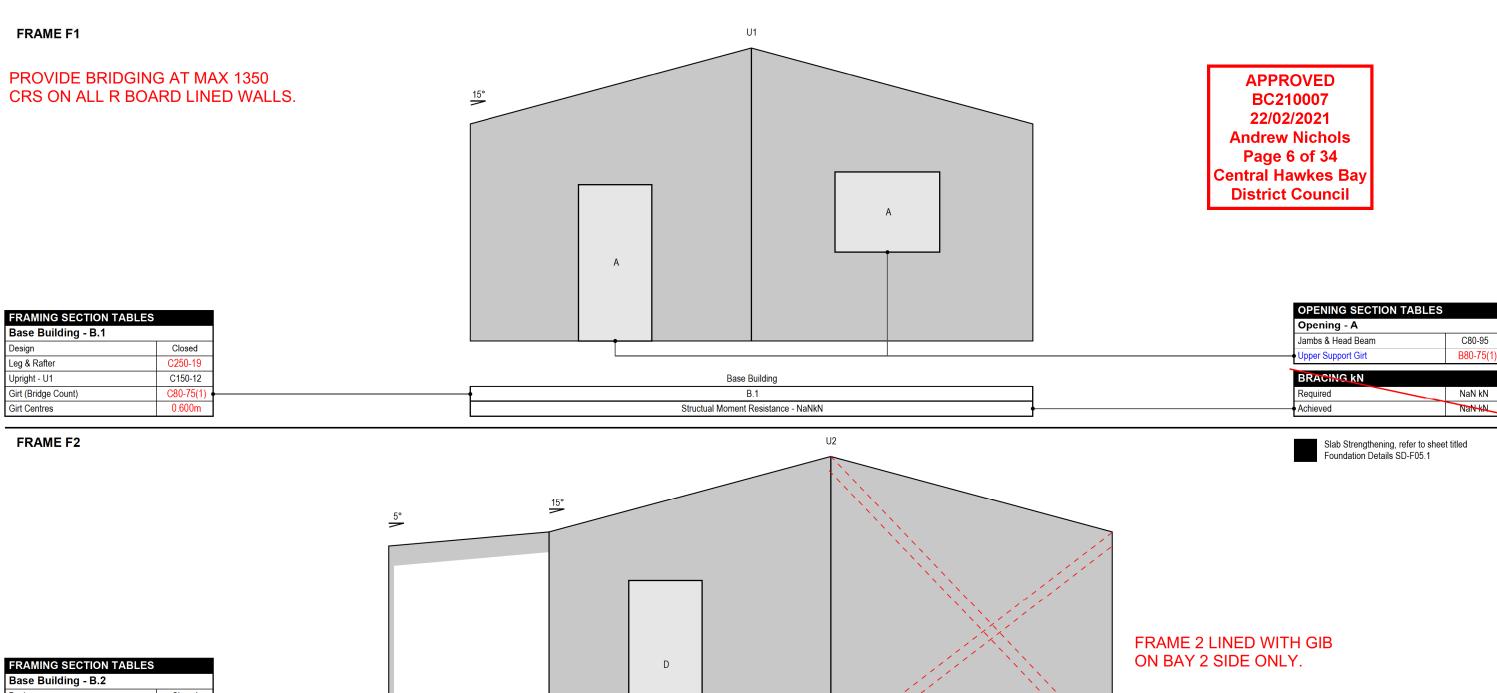
4.1

© Copyright 2017 Spanbild NZ Ltd. All rights reserved.

Nathan Tritt 300 Homewood Road Otane 4277 0272031205 Gable Range - Design

Engineering Tables

Sheet 6 of 20



FRAMING SECTION TABLES	
Base Building - B.2	
Design	Closed
Leg & Rafter	C250-19
Upright - U2	C100-15
Girt (Bridge Count)	C80-75
Girt Centres	0.600m
Awning - A.1	
Design	Open
Rafter	C250-15
Post	SHS65-16

Awning Base Building
A.1 B.2

 OPENING SECTION TABLES

 Opening - D

 Jambs & Head Beam
 C80-75

 Upper Support Girt
 B80-75(1)





Project Ref: 1550193

© Copyright 2017 Spanbild NZ Ltd. All rights reserved.

Nathan Tritt 300 Homewood Road Otane 4277 0272031205 Gable Range - Design

Engineering Tables

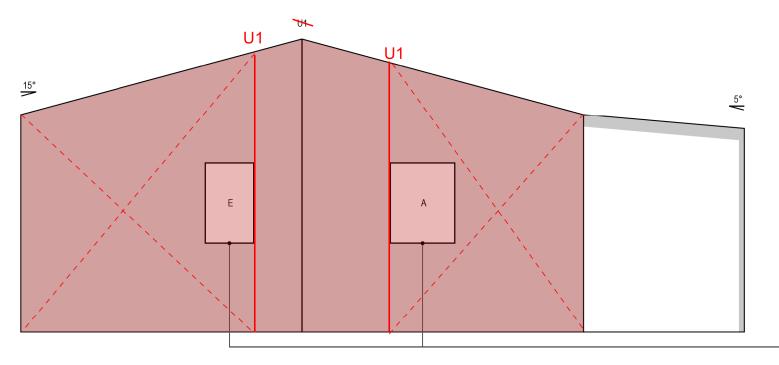
Sheet 7 of 20

FRAME F3

PROVIDE BRIDGING AT MAX 1350 CRS ON ALL R BOARD LINED WALLS.

FRAME 3 LINED WITH GIB.

FRAMING SECTION TABLES				
Base Building - B.1				
Design	Closed			
Leg & Rafter	C150-19			
Upright - U1	C150-10			
Girt (Bridge Count)	C80-75			
Girt Centres	0.600m			
Awning - A.2				
Design	Open			
Rafter	C150-10			
Post	SHS65-16			



OPENING SECTION TABLES					
Opening - A					
Jambs & Head Beam	C80-75				
Upper Support Girt	B80-75				
Opening - E					
Jambs, Head Beam & Sill	C80-75				
Upper & Lower Support Girt	B80-75				

ODENING SECTION TABLES

Base Building	Awning
B.1	A.2
Structual Moment Resistance - NaNkN	

BRACING KN

Required NaN kN

Achieved NaN kN

APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 7 of 34
Central Hawkes Bay
District Council





Project Ref: 1550193

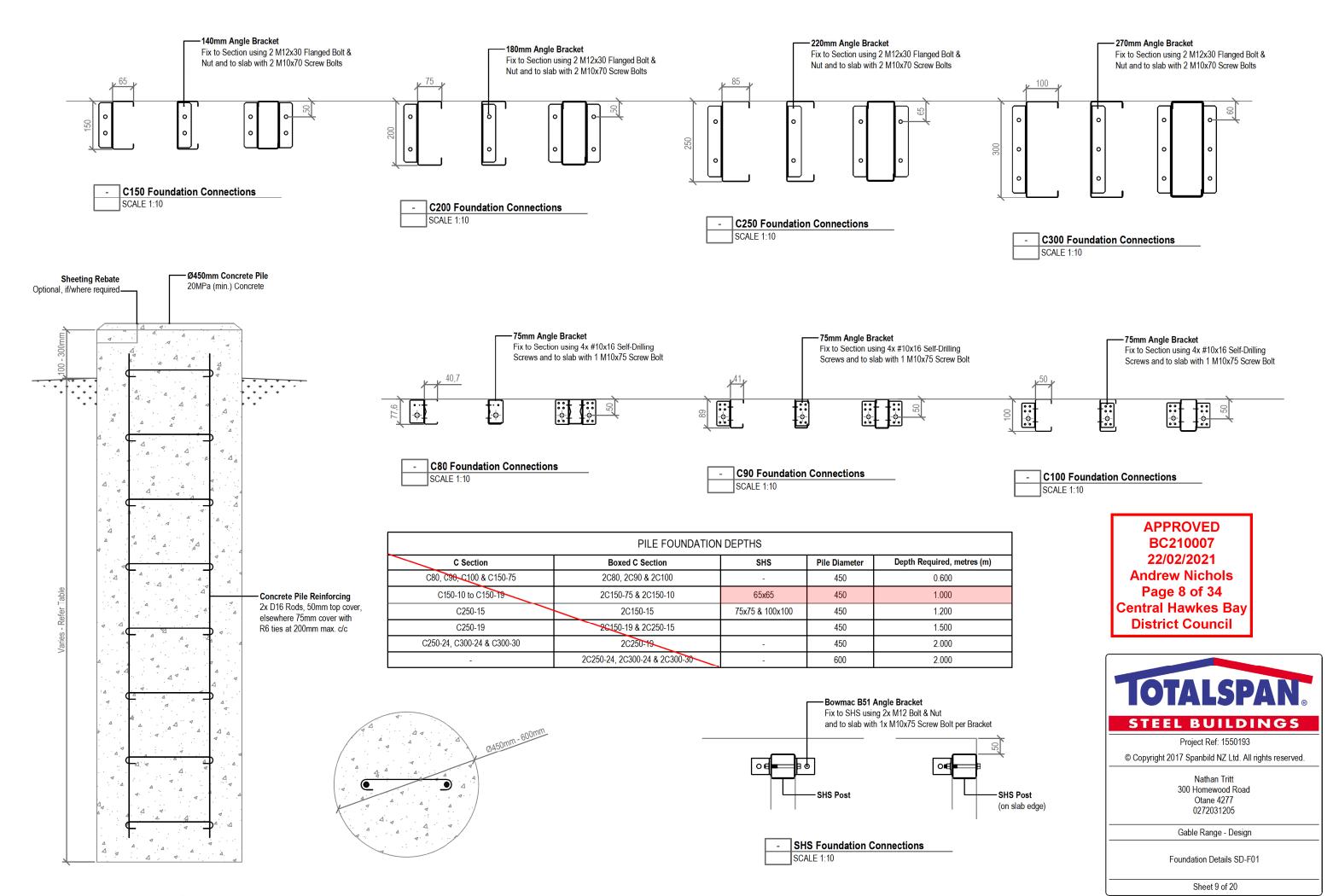
© Copyright 2017 Spanbild NZ Ltd. All rights reserved.

Nathan Tritt 300 Homewood Road Otane 4277 0272031205

Gable Range - Design

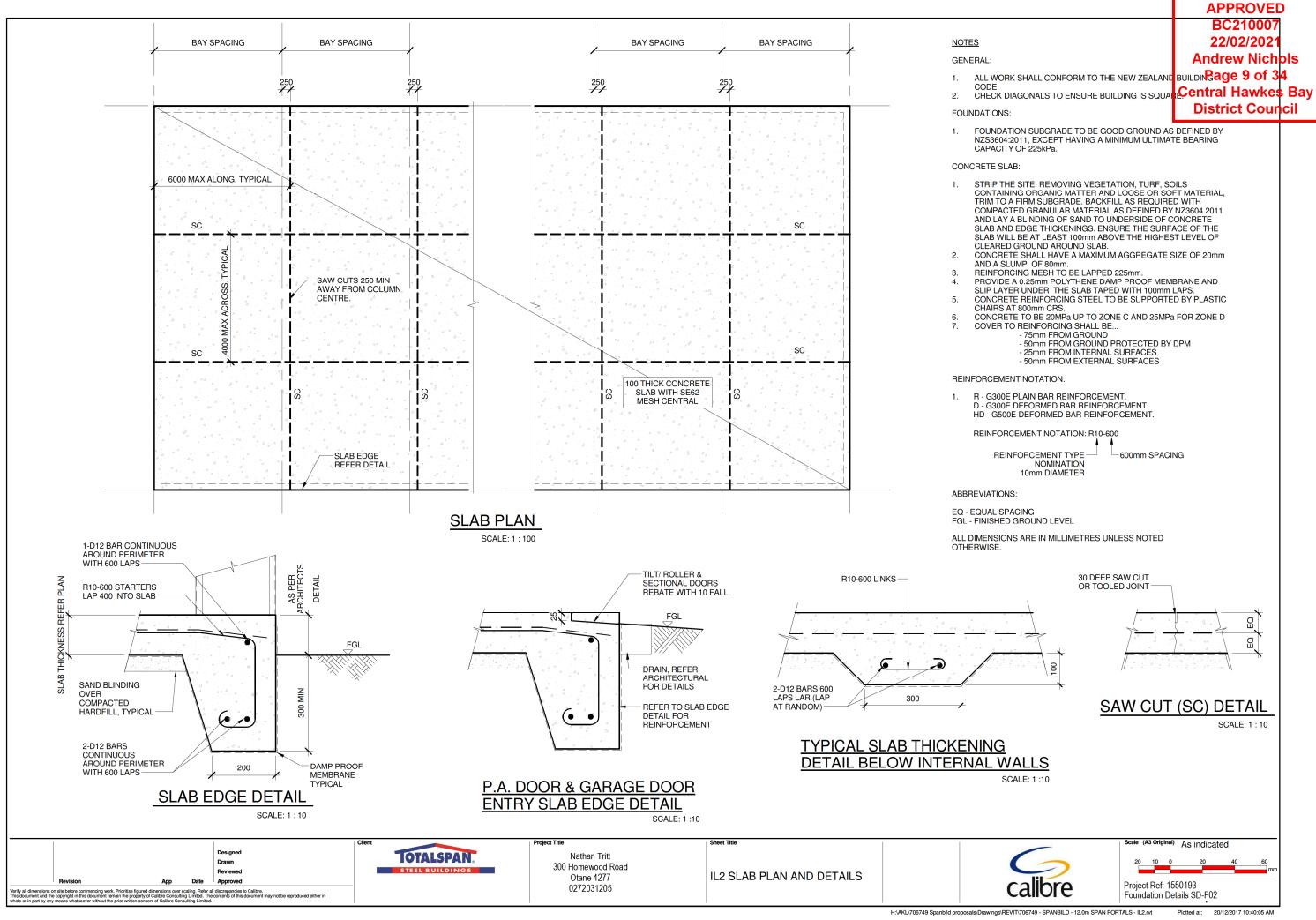
Engineering Tables

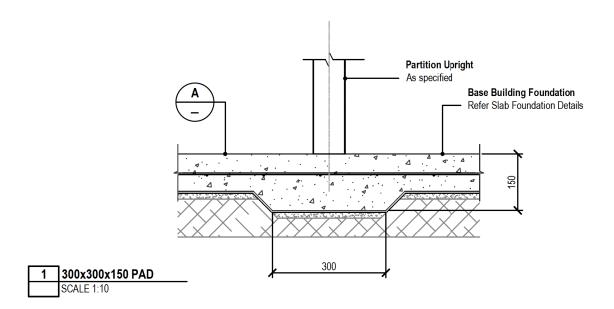
Sheet 8 of 20

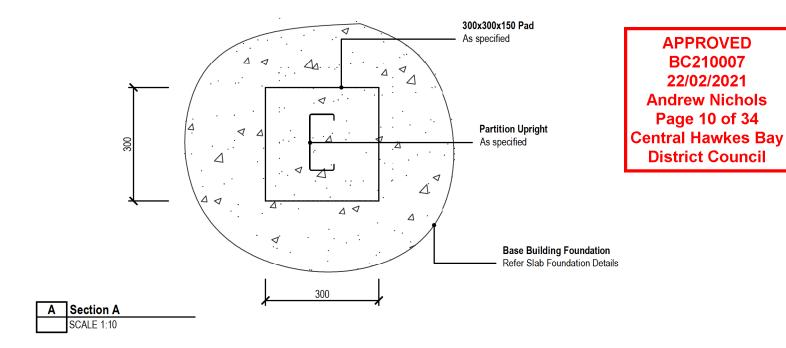


3 PORTAL FOUNDATION DETAIL

SCALE 1:10









Project Ref: 1550193

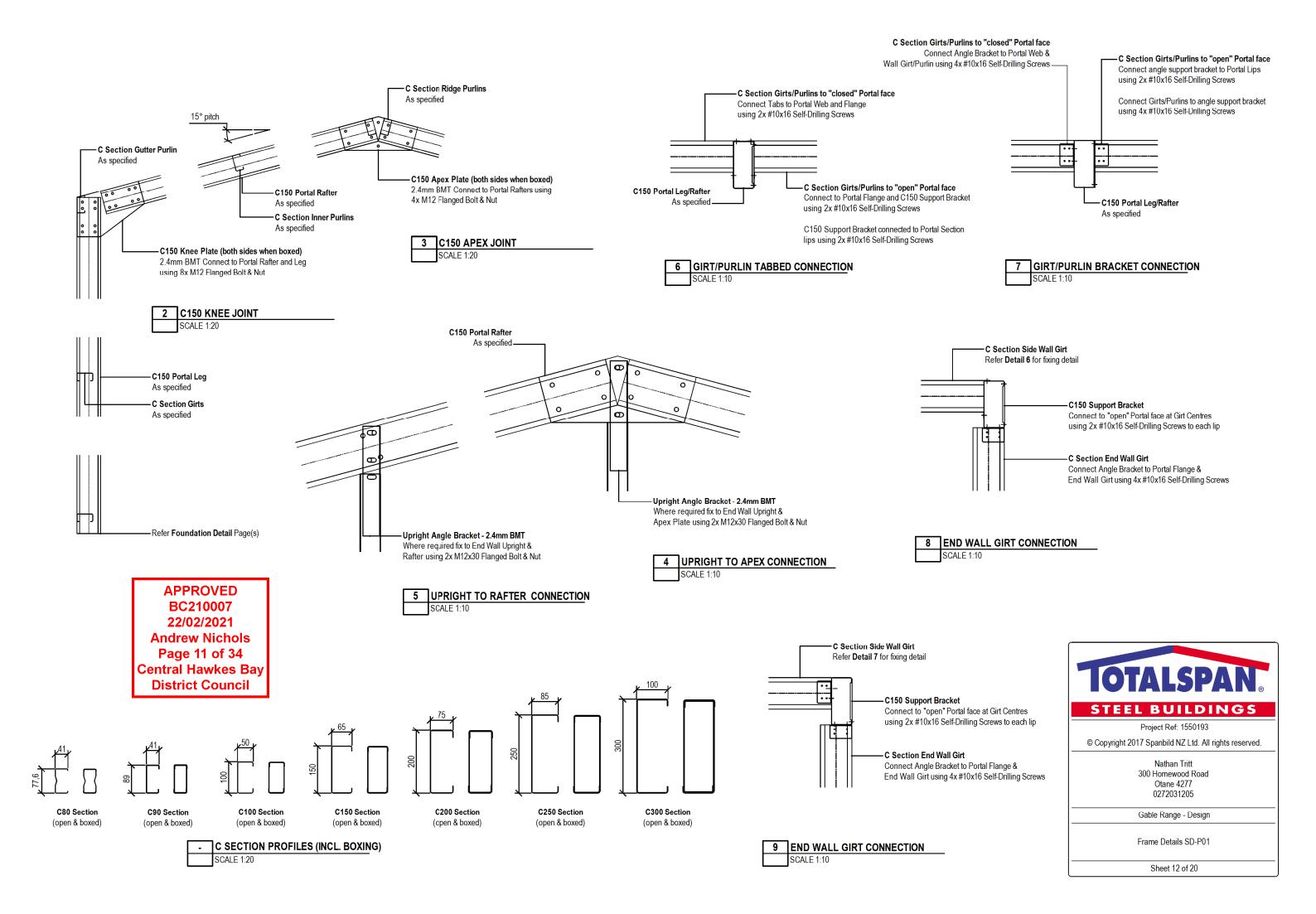
© Copyright 2017 Spanbild NZ Ltd. All rights reserved.

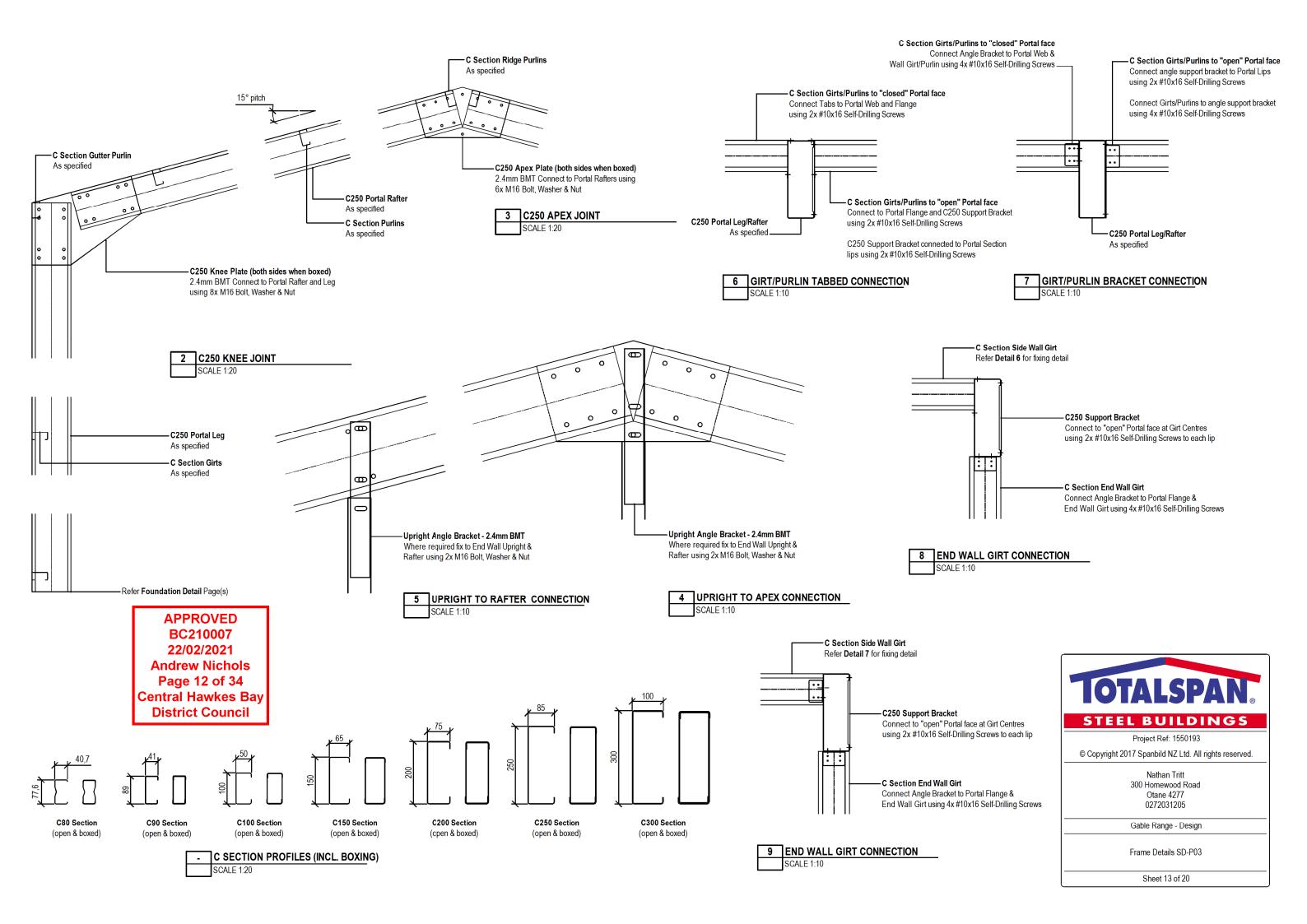
Nathan Tritt 300 Homewood Road Otane 4277 0272031205

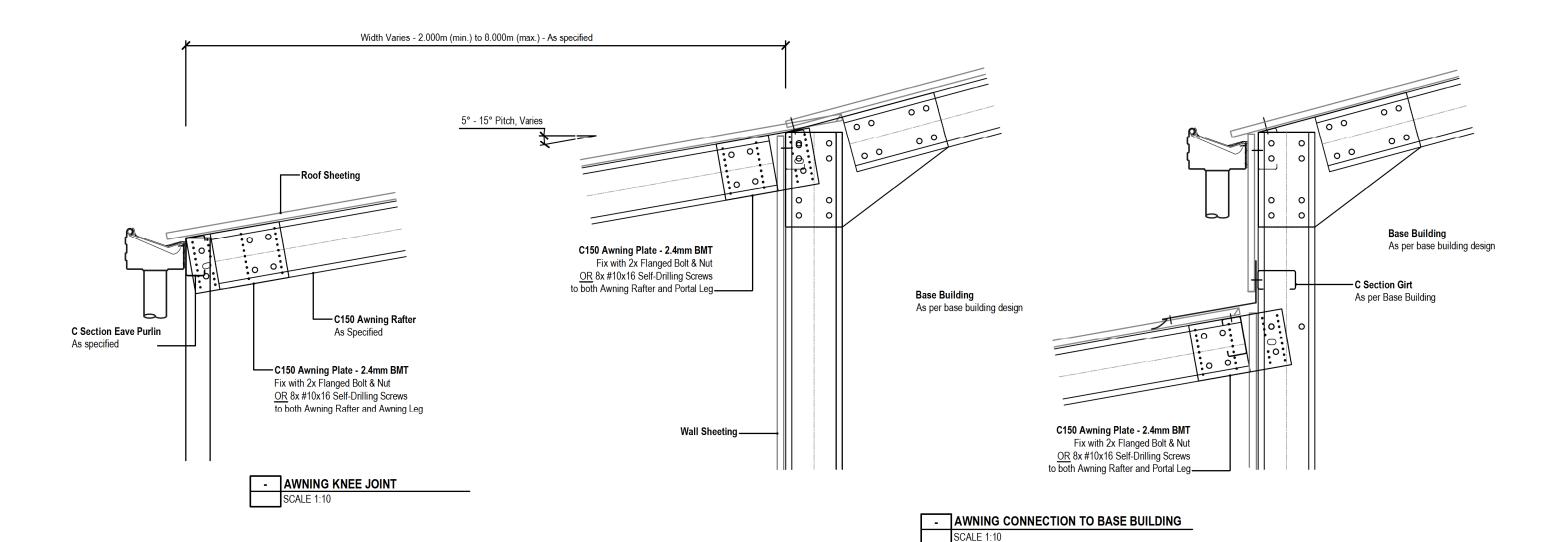
Gable Range - Design

Foundation Details SD-F05.1

Sheet 11 of 20







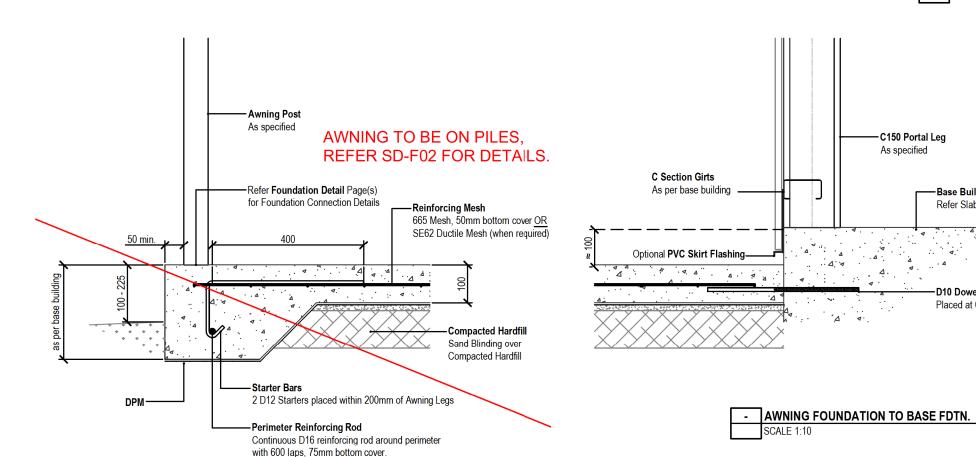
-C150 Portal Leg As specified

-Base Building Foundation

Placed at 600mm max. c/c

D10 Dowels

Refer Slab Foundation Details



AWNING FOUNDATION DETAIL

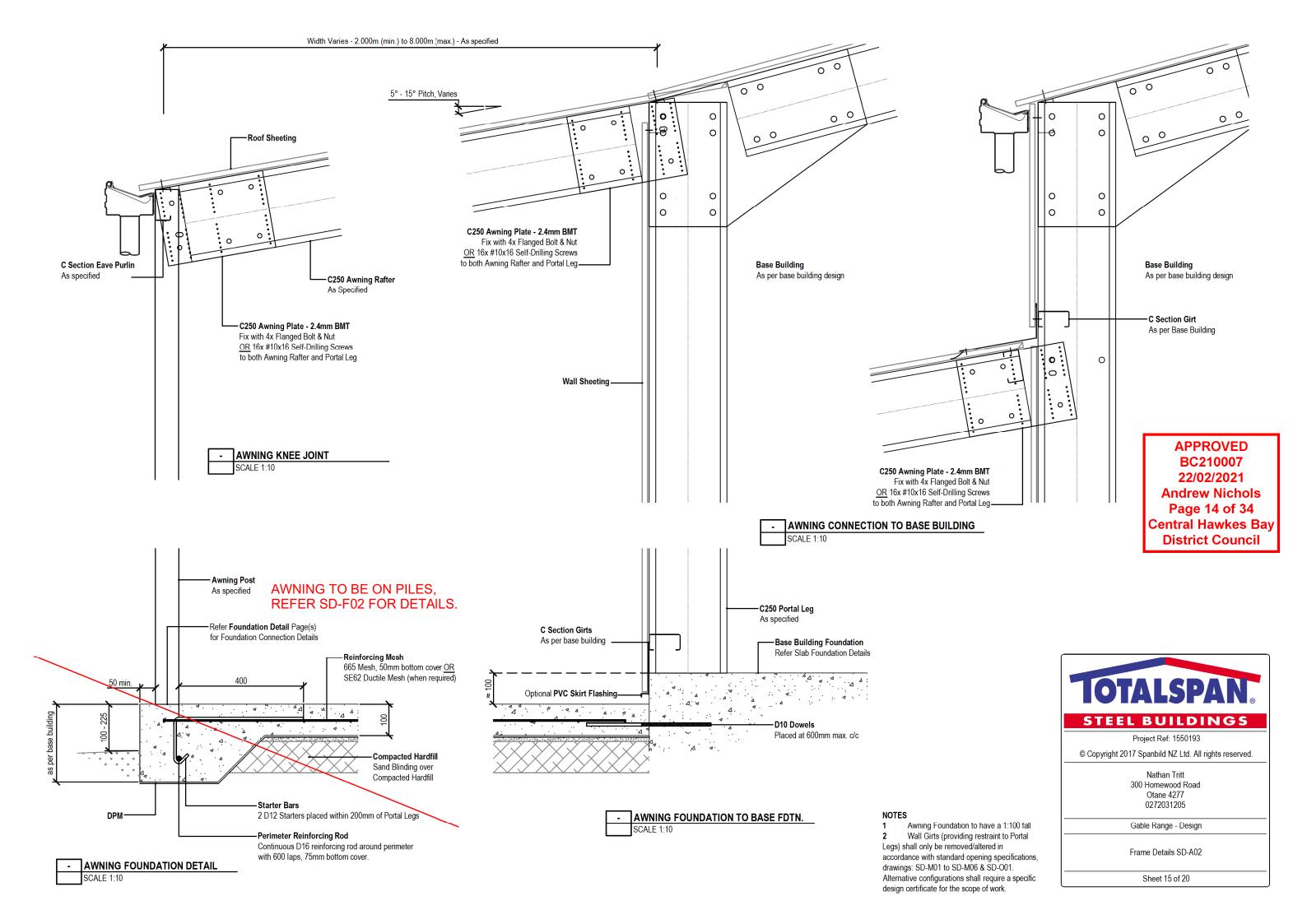
SCALE 1:10

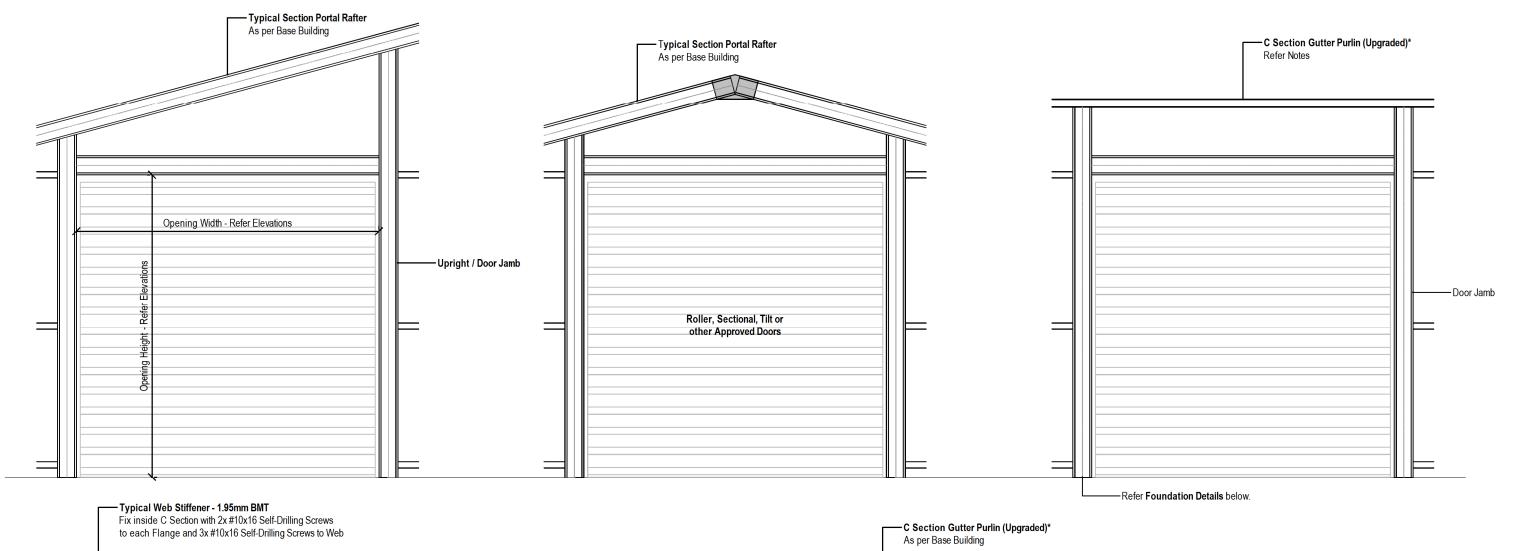
APPROVED BC210007 22/02/2021 **Andrew Nichols** Page 13 of 34 Central Hawkes Bay **District Council**

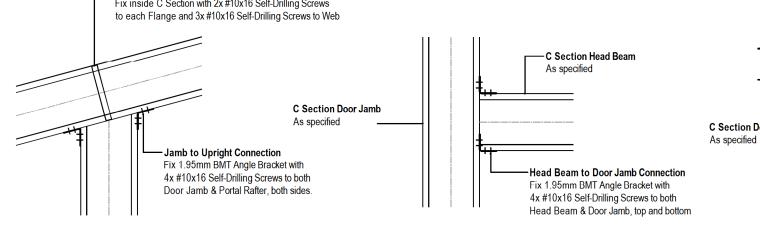


NOTES

Awning Foundation to have a 1:100 fall Wall Girts (providing restraint to Portal Legs) shall only be removed/altered in accordance with standard opening specifications, drawings: SD-M01 to SD-M06 & SD-O01. Alternative configurations shall require a specific design certificate for the scope of work.

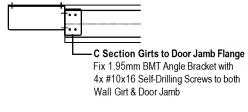






C Section Gutter Purlin (Upgraded)*
As per Base Building

Door Jamb to Gutter Purlin Connection
Fix 1.95mm BMT Angle Bracket with
4x #10x16 Self-Drilling Screws to both
Door Jamb & Gutter Purlin



- GIRT TO DOOR JAMB CONNECTION
SCALE 1:10

- DOOR JAMB/UPRIGHT TO RAFTER CONNECTION
SCALE 1:10

- HEAD BEAM TO DOOR JAMB CONNECTION
SCALE 1:10

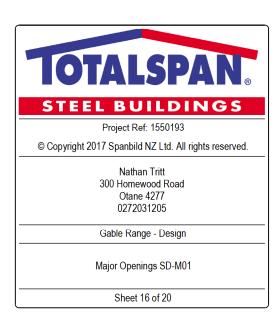
- HEAD BEAM TO GUTTER PURLIN CONNECTION
SCALE 1:10

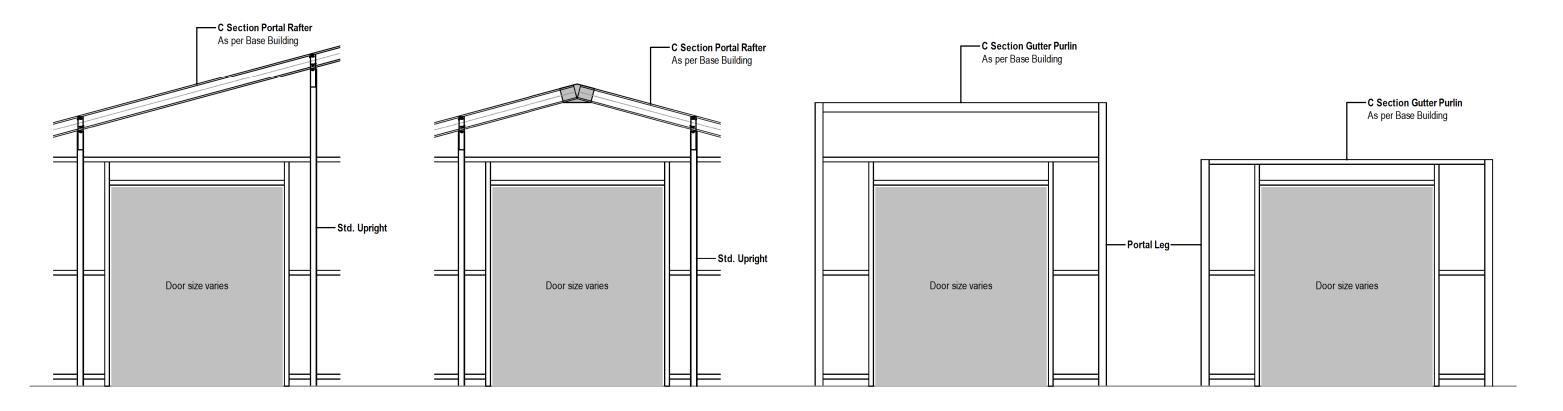
0 0

C150 Section Door Jambs (open or boxed options)

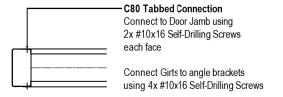
- C150 Jamb to Foundation Connections
SCALE 1:10

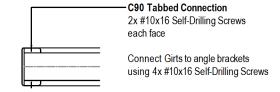
APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 15 of 34
Central Hawkes Bay
District Council





APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 16 of 34
Central Hawkes Bay
District Council

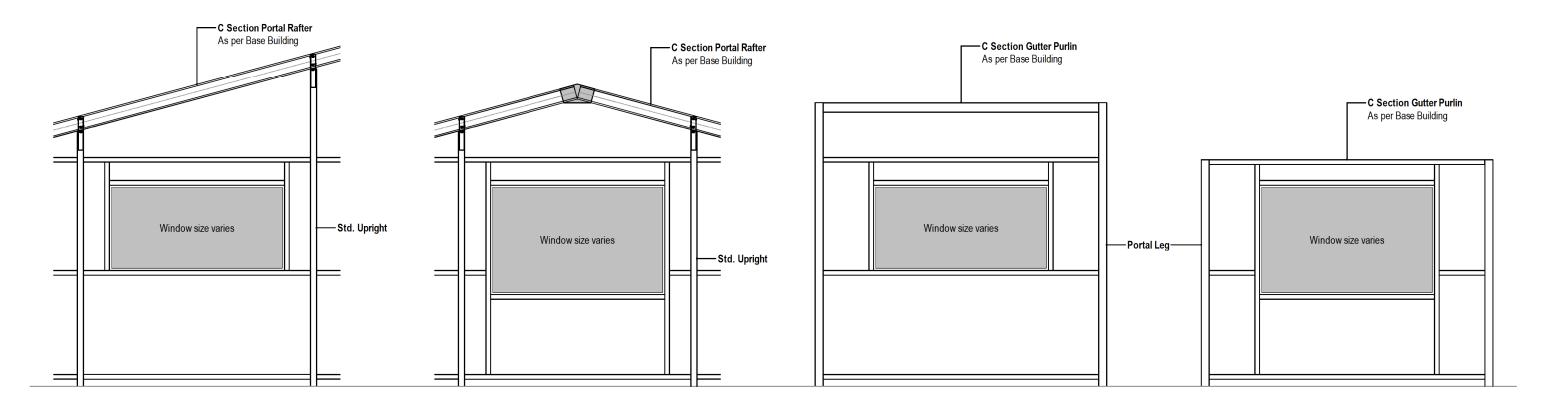




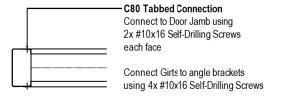
	-	C SECTION TABBED CONNECTION
1		SCALE 1:10

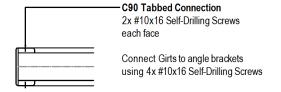
- C SECTION NOTCHED CONNECTION
SCALE 1:10





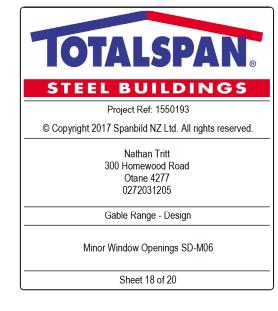
APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 17 of 34
Central Hawkes Bay
District Council





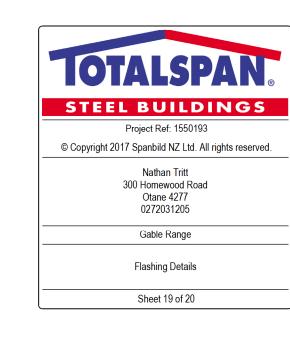


- C SECTION NOTCHED CONNECTION
SCALE 1:10



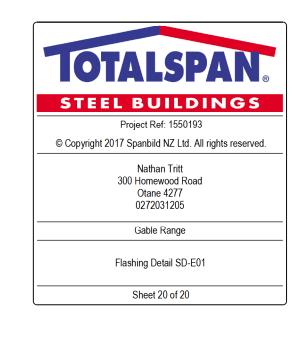
APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 18 of 34
Central Hawkes Bay
District Council

PAGE INTENTIONALLY LEFT BLANK

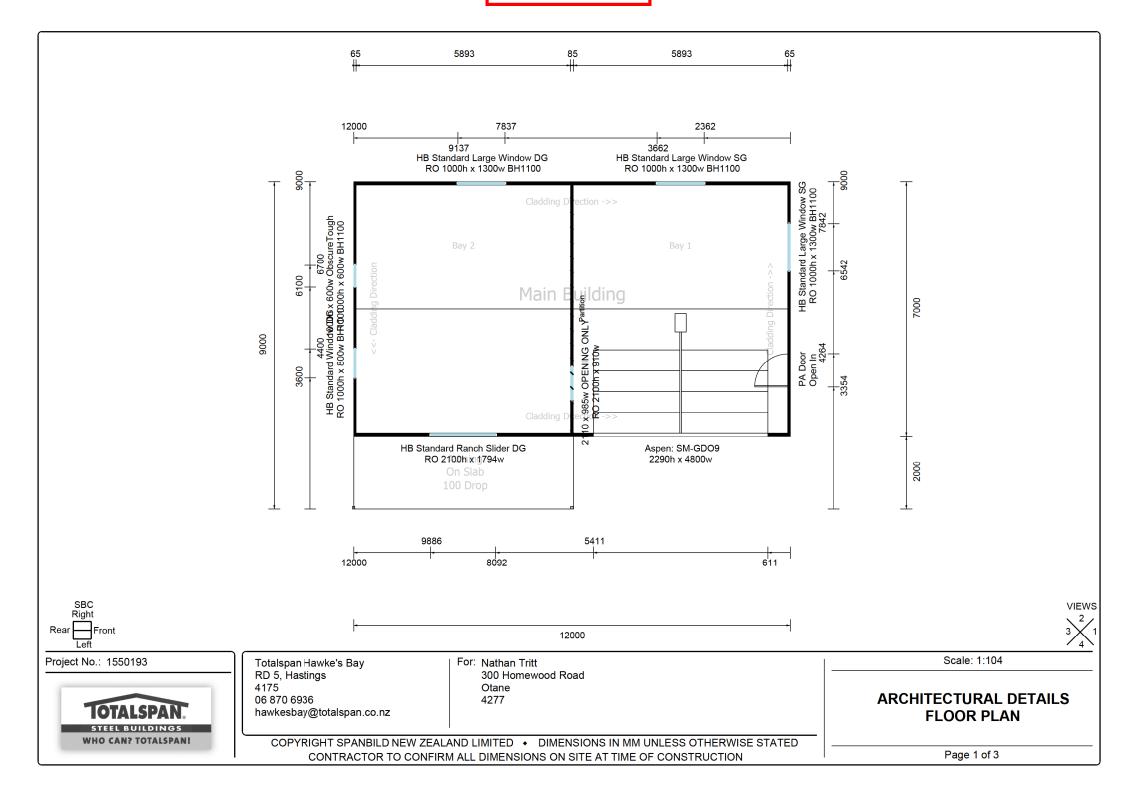


PAGE INTENTIONALLY LEFT BLANK

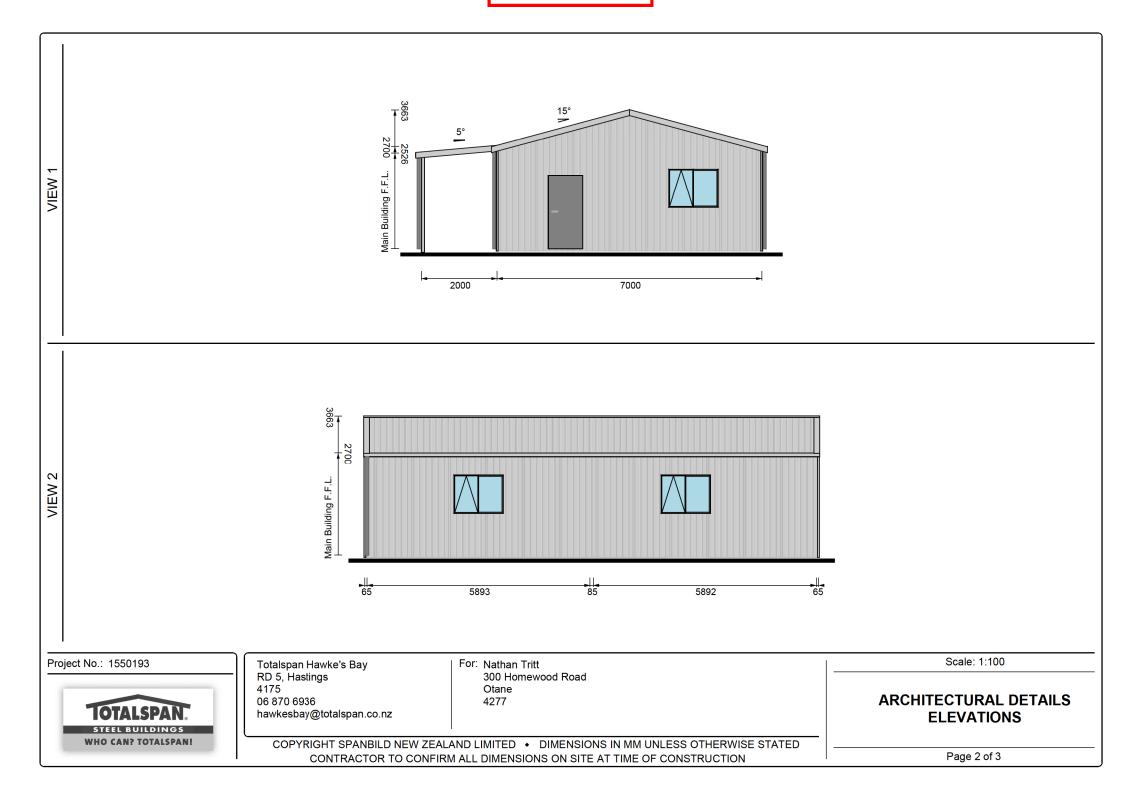
APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 19 of 34
Central Hawkes Bay
District Council



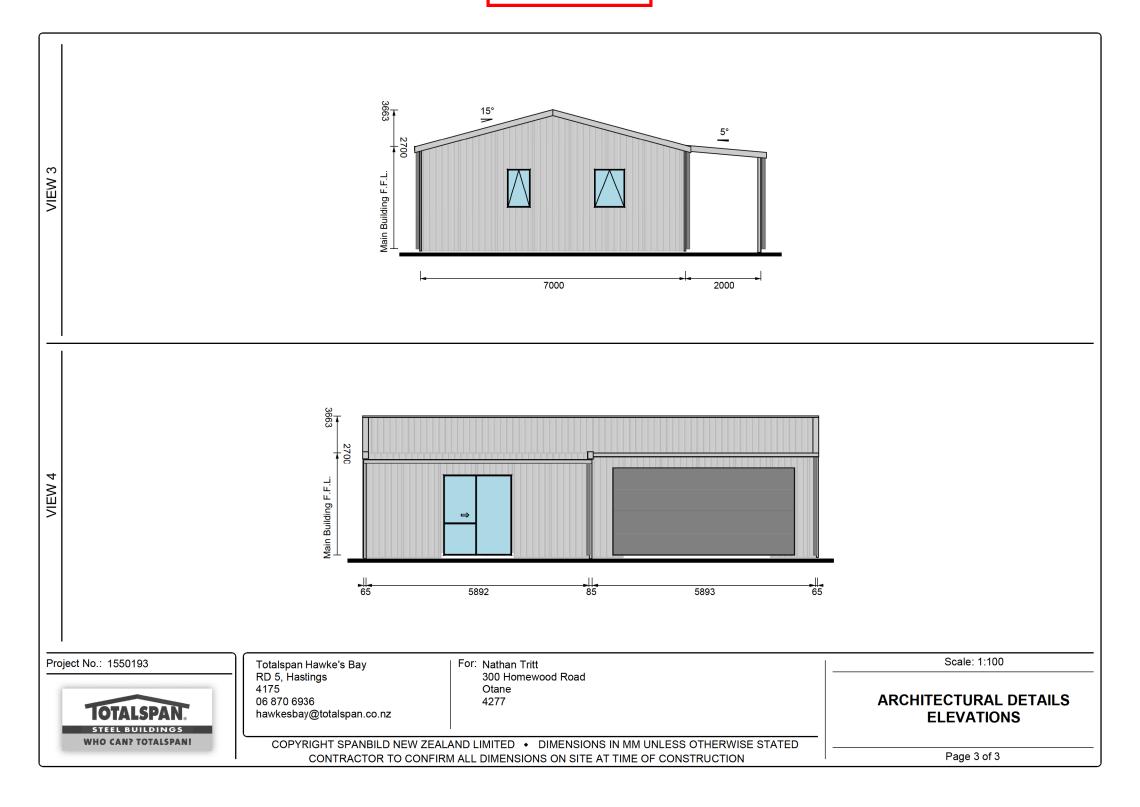
APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 20 of 34
Central Hawkes Bay
District Council

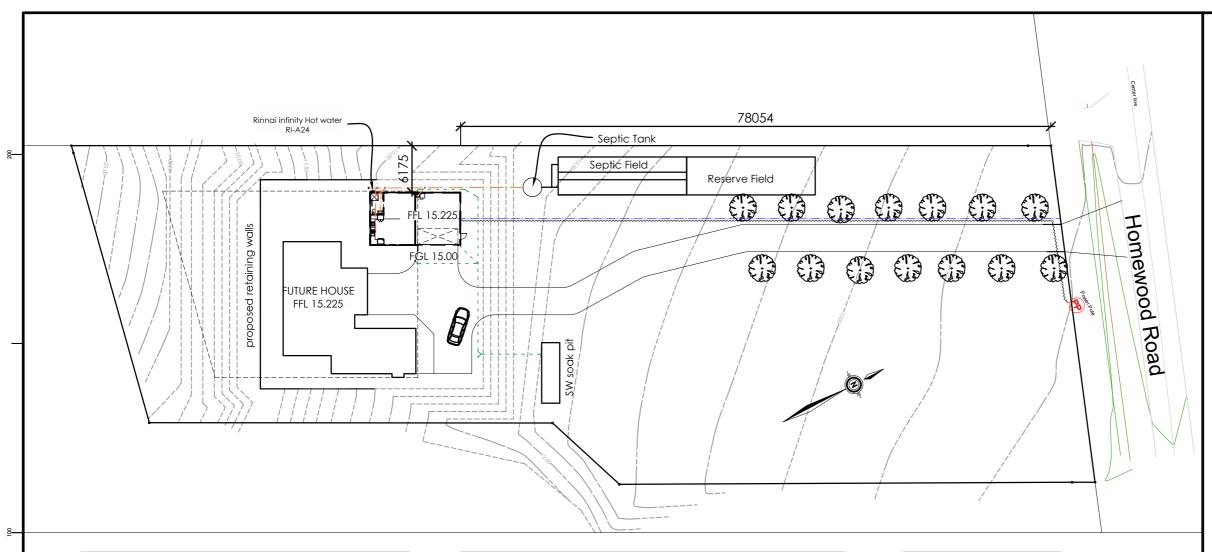


APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 21 of 34
Central Hawkes Bay
District Council



APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 22 of 34
Central Hawkes Bay
District Council





ALL BUILDING LEVELS TO BE CONFIRMED ON SITE.

- FINISHED FLOOR LEVEL MUST BE A MINIMUM OF 225mm ABOVE UNSEALED GROUND & 150mm ABOVE PERMANENT PAVING WHERE THE STEP DOWN HEIGHT AT ANY EXTERNAL DOOR EXCEEDS 190mm, A CONCRETE STEP OR STEPS IS TO BE CONSTRUCTED WITH A MAXIMUM RISE OF 190mm AND A MIN TREAD OF 280mm

TEMPORARY SITE FENCING

Temporary site fencing to be constructed around the building site to stop public access. An acceptable fence may be constructed with galvanised chain link netting having a max sized grid of 50mm x 50mm. Post spacing shall be a maximum of 2.5 m, and the gap between the bottom of the fence and ground no greater than 100 mm. NZBC F5 AS/1

Wind Zone: Extra High Earthquake Zone: Zone 3 Exposure Zone: Zone B Subsoil classification: Class D District Plan Zone: Residential Building Category: IV Residential Floor Loadings: 2kPa



APPROVED BC210007 22/02/2021 **Andrew Nichols** Page 23 of 34 Central Hawkes Bay **District Council**

pak design

ARCHITECTURAL DESIGNERS 8 Connolly Place, Milson, Palmerston North 4414 P: 06 350 3902 C:027 204 9423 E:office@pakdesign.co.nz W:www.pakdesign.co.nz COPYRIGHT © ALL RIGHTS RESERVED

TRITT Sleepout

300 Homewood Rd, Waipawa

CONTENTS:

L101	Location & Site Plans	R1
L102	Floor Finishes Plan	R1
L103	Drainage Plan	R1
L104	Roof Drainage Plan	R1
L105	Electrical Layout	R1

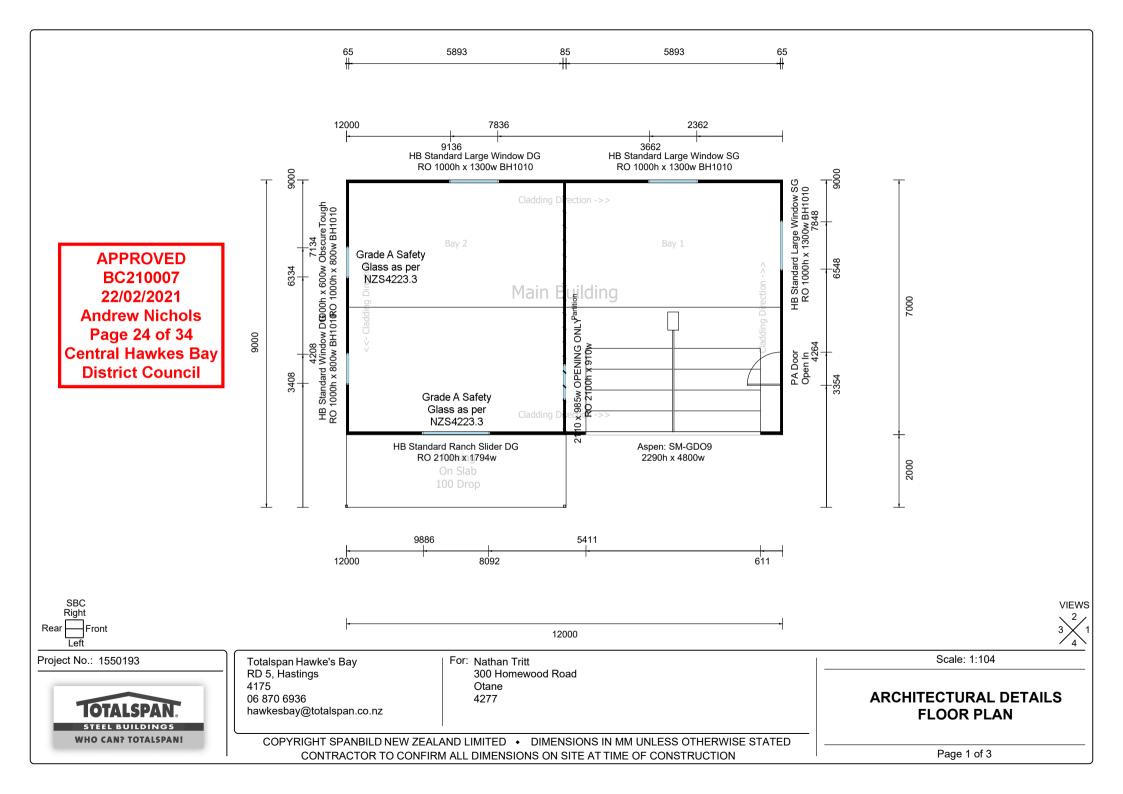
REV	DATE	AMENDMENT	
	16.12.20	CONSENT ISSUE	

DRAWING TITLE:

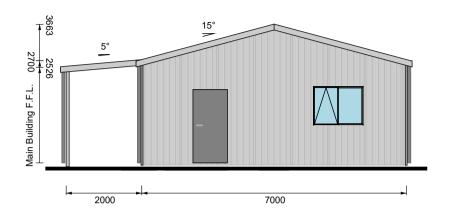
Location & Site Plan

DATE:	16-Dec-20	JOB #:	20030
DESIGNED:	MCJ	DRAWN:	MCJ
ISSUE:	Consent	CHECKED:	MCJ
SCALE: A3 @ 1:5	500	DRAWING #	: REV:
A3 @ 1.0	000	L101	R1

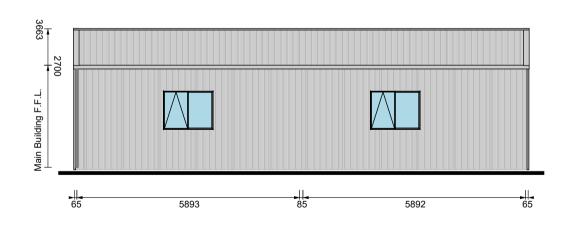
1) ALL DIMENSIONS TO BE CONFIRMED ON SITE BY CONTRACTOR BEFORE MANUFACTURE / CONSTRUCTION, DO NOT SCALE OFF DRAWINGS, NOTIFY DESIGNER IMMEDIATELY OF ANY DISCREPANCIES.
2) THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH ALL SPECIFICATIONS, ENGINEER & SUB-CONSULTANCE DOCUMENTATION & TRADE RELATED PUBLICATIONS, CONSTRUCT IN ACCORDANCE , WITH THE NEW ZEALAND BUILDING CODE & OTHER STATUTORY, REGULATORY DOCUMENTS & TERRITORIAL AUTHORITY REQUIREMENTS.



APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 25 of 34
Central Hawkes Bay
District Council



RISK MATRIX									
	Ris	k se	ever	ity					
Risk factor	lo	w	m	ed	hi	gh	v-h	igh	subtotals
Wind zone	0		0		1		2	√	2
No. of storeys	0	V	1		2		4		0
Roof/wall intersection design	0		1	1	3		5		1
Eaves width	0		1		2	V	5		2
Envelope complexity	0	1	1		3		6		0
Deck design	0	1	2		4		6		0
Total risk score:								5	



RISK MATRIX									
Risk severity									
Risk factor	lo	w	m	ed	hi	gh	v-h	igh	subtotals
Wind zone	0		0		1		2	√	2
No. of storeys	0	V	1		2		4		0
Roof/wall intersection design	0		1	1	3		5		1
Eaves width	0		1		2	4	5		2
Envelope complexity	0	1	1		3		6		0
Deck design	0	1	2		4		6		0
Total risk score:								5	

Project No.: 1550193

VIEW



Totalspan Hawke's Bay RD 5, Hastings 4175 06 870 6936 hawkesbay@totalspan.co.nz For: Nathan Tritt 300 Homewood Road Otane 4277

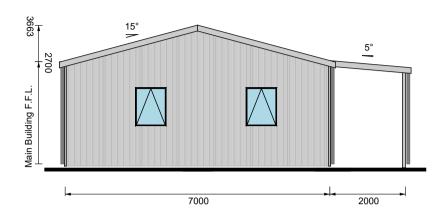
ARCHITECTURAL DETAILS ELEVATIONS

COPYRIGHT SPANBILD NEW ZEALAND LIMITED • DIMENSIONS IN MM UNLESS OTHERWISE STATED CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE AT TIME OF CONSTRUCTION

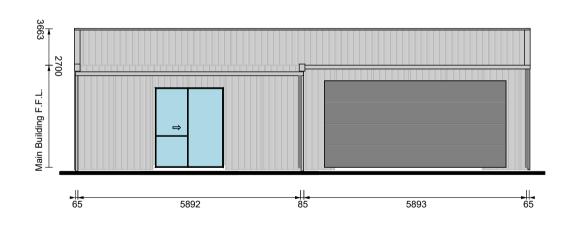
Page 2 of 3

Scale: 1:100

APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 26 of 34
Central Hawkes Bay
District Council



RISK MATRIX									
	Ris	k se	ever	ity					
Risk factor	lo	w	m	ed	hi	gh	v-h	igh	subtotals
Wind zone	0		0		1		2	√	2
No. of storeys	0	V	1		2		4		0
Roof/wall intersection design	0		1	V	3		5		1
Eaves width	0		1		2	1	5		2
Envelope complexity	0	1	1		3		6		0
Deck design	0	1	2		4		6		0
Total risk score:							5		



		RI	SK	MA	TRI	X			
	Ris	k se	ever	ity					
Risk factor	lo	w	m	ed	hi	gh	v-h	igh	subtotals
Wind zone	0		0		1		2	√	2
No. of storeys	0	V	1		2		4		0
Roof/wall intersection design	0		1	1	3		5		1
Eaves width	0		1		2	4	5		2
Envelope complexity	0	1	1		3		6		0
Deck design	0	1	2		4		6		0
	Total risk score:						5		

Project No.: 1550193

VIEW

VIEW 4



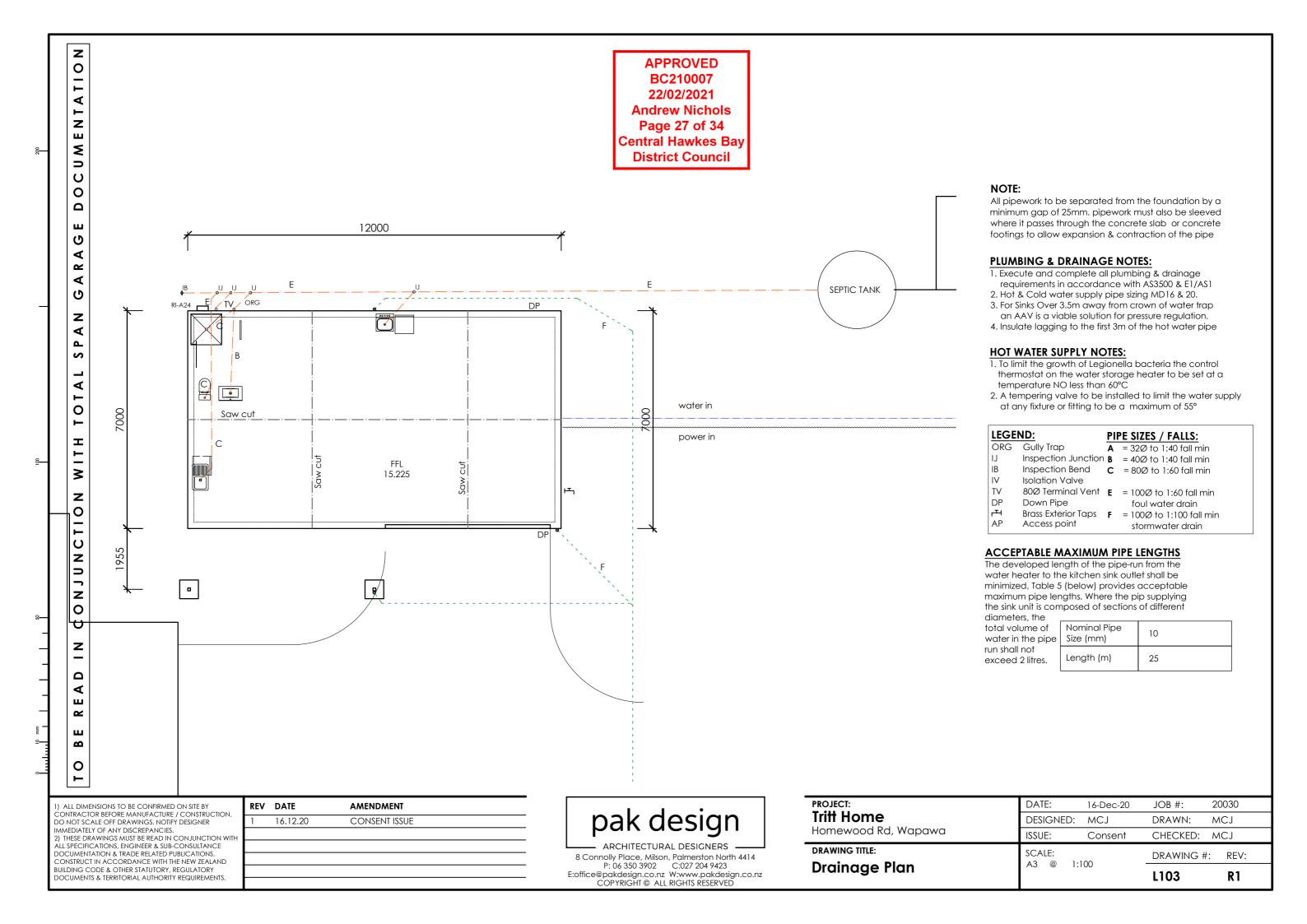
Totalspan Hawke's Bay RD 5, Hastings 4175 06 870 6936 hawkesbay@totalspan.co.nz For: Nathan Tritt 300 Homewood Road Otane 4277

ARCHITECTURAL DETAILS ELEVATIONS

COPYRIGHT SPANBILD NEW ZEALAND LIMITED • DIMENSIONS IN MM UNLESS OTHERWISE STATED CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE AT TIME OF CONSTRUCTION

Page 3 of 3

Scale: 1:100



NOTE: ALL LIGHTING TO BE CONFIRMED ON SITE BY OWNER WITH ELECTRICAL CONTRACTOR

Service of the servic

APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 28 of 34
Central Hawkes Bay
District Council

ELECTRICAL & LIGHTING LEGEND

Meter board, proprietary manufactured, zinc plated powder coated metal case or ABS plastic with glazed panel door

Flush mounted distribution board, provide board complete with all required circuit breakers & RCD protection to all necessary circuits.

 Double socket outlet PDL 600 series white cover plate (height determined on site)

Single socket outlet PDL 600 series white cover plate (height determined on site) ("RCD" Denote RCD Type socket)

Single socket outlet PDL 600 series white cover plate (height determined on site) ("RCD" = RCD socket) ("EX" = Exterior)

 $|_{USB}$ $\frac{2}{3}$ Double socket - Double USB outlet

"PH" Denotes phone / data outlet
"TV" Denotes television outlet socket
- client to organize decoders as required.

G Garage Door wall mounted control

Fibre/Telephone Demarc Point with dedicated Power Supply

Hard wired Smoke Alarm

High wall heat pump

Heat pump outdoor unit

V Mechanical vent Extract Fan run on timer linked to light switch

xw 4 Exterior Wall Mounted light

♣ LED Down Light

1500 long double fluorescent fitting with owner selected diffuser.

Soffit mounted Exterior Double Spot Light with Sensor

PDL 600 series white cover plate, white switch, 1000mm high

Contractor shall calculate & provide sufficient power cabling to meter board & distribution board to suit loadings, as necessary. Electrical contractor to provide & fit all exterior grills & cowl to range hood ducting. Confirm all final light & power point locations on site with client prior to setting out. Multiple lights are to be run in straight lines, evenly setout. Wire the following kitchen appliances: Oven, Cooktop, Refrigerator, Extraction Hood, & dish washer. provide remote isolation switches for all of the above equipment. locations for remote switches are to be confirmed on site by client, but generally cut & concealed within kitchen cabinetry. Avoid surface mounting conduits. All wiring to be concealed from view. Client to confirm: Sky, Audio, Data, Security, Surround sound system, TV Aerial installation.

1) ALL DIVERSIONS TO BE CONFIDENCE ON OUT BY
ALL DIMENSIONS TO BE CONFIRMED ON SITE BY
CONTRACTOR BEFORE MANUFACTURE / CONSTRUCTION.
DO NOT SCALE OFF DRAWINGS. NOTIFY DESIGNER
IMMEDIATELY OF ANY DISCREPANCIES.
2) THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH
ALL SPECIFICATIONS, ENGINEER & SUB-CONSULTANCE
DOCUMENTATION & TRADE RELATED PUBLICATIONS.
CONSTRUCT IN ACCORDANCE WITH THE NEW ZEALAND
BUILDING CODE & OTHER STATUTORY, REGULATORY
DOCUMENTS & TERRITORIAL AUTHORITY REQUIREMENTS.

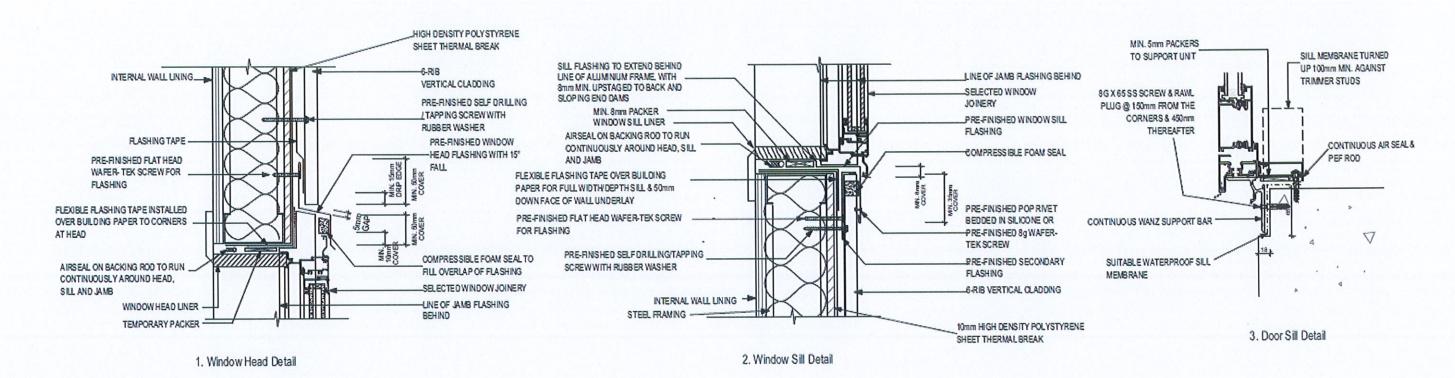
_			
REV	DATE	AMENDMENT	
1	16.12.20	CONSENT ISSUE	
1			

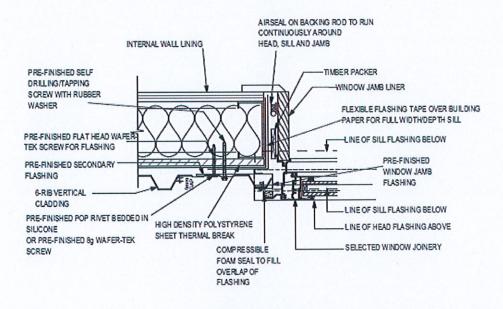
pak design

ARCHITECTURAL DESIGNERS

8 Connolly Place, Milson, Palmerston North 4414
P: 06 350 3902 C:027 204 9423
E:office@pakdesign.co.nz W:www.pakdesign.co.nz
COPYRIGHT © ALL RIGHTS RESERVED

PROJECT:	DATE:	16-Dec-20	JOB #:	20030
Tritt Home	DESIGNED:	MCJ	DRAWN:	MCJ
Homewood Rd, Wapawa	ISSUE:	Consent	CHECKED:	MCJ
DRAWING TITLE:	SCALE: A3 @ 1:100		DRAWING #	#: REV:
Electrical Layout		50	L105	R1

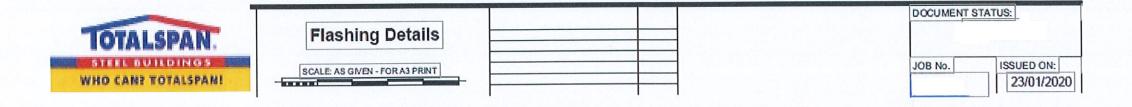


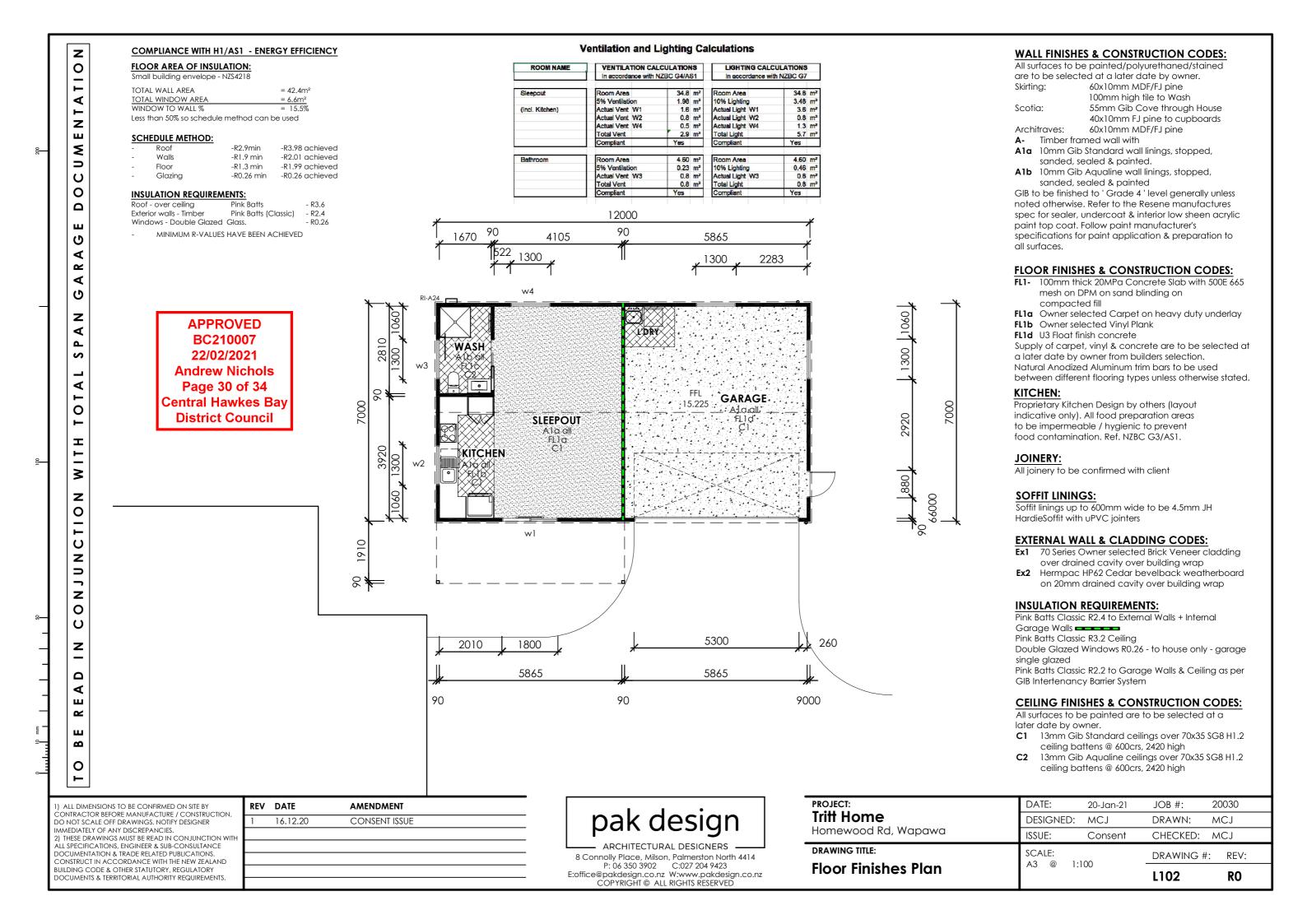


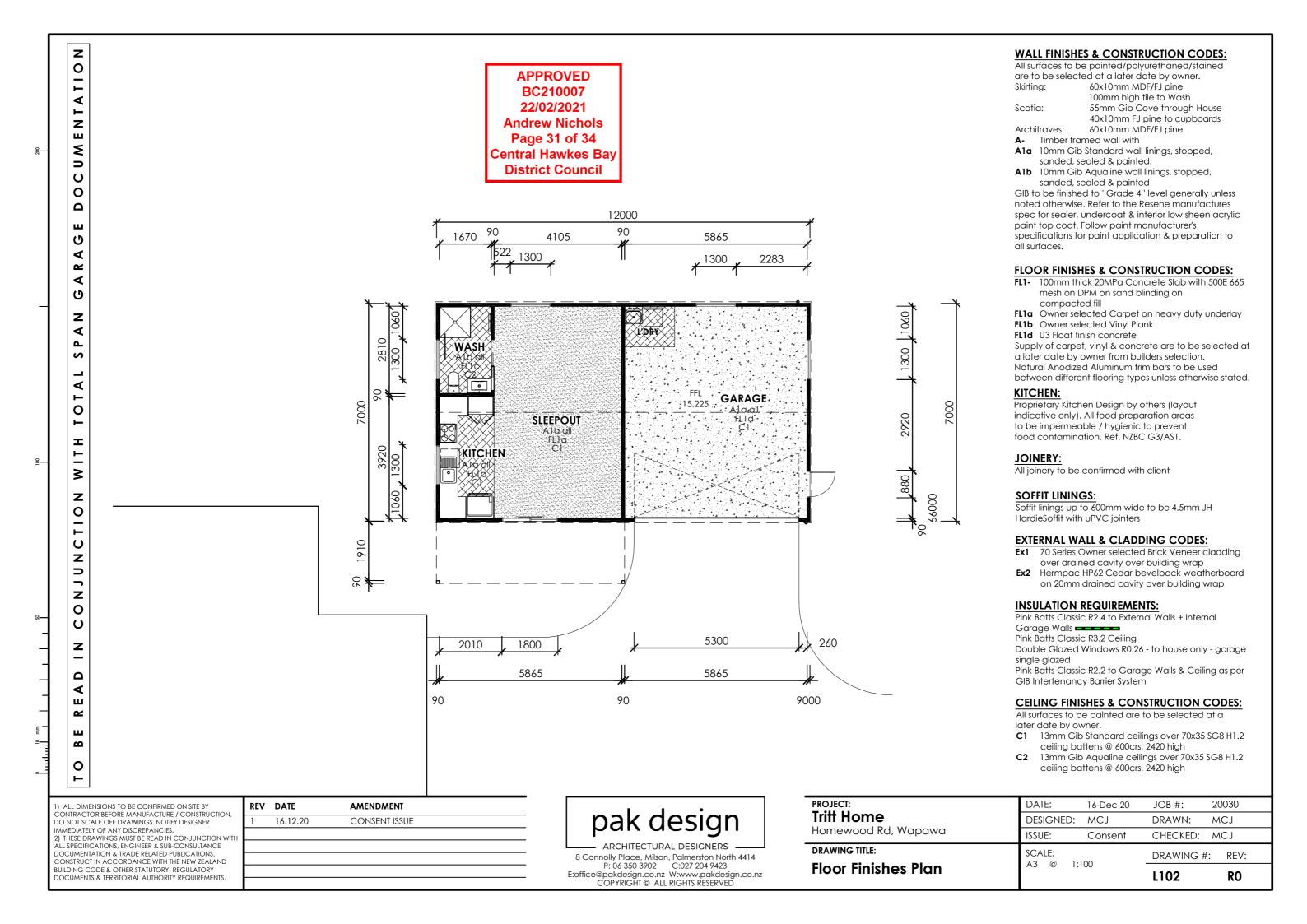
APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 29 of 34
Central Hawkes Bay
District Council

5. Window Jamb Detail

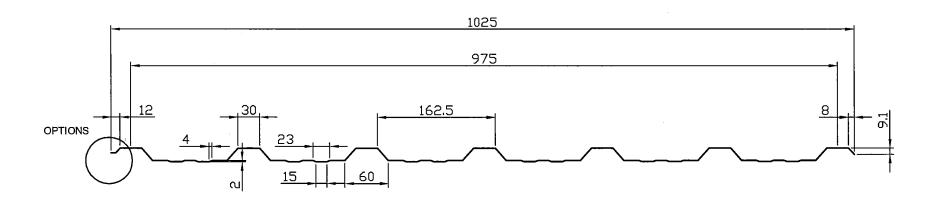
ALL EXTERIOR DOOR SILL REBATE DIMENSIONS SHALL BE CONFIRMED WITH SELECTED JOINERY MANUFACTURER BY CONTRACTOR PRIOR TO CONSTRUCTION.







DIMENSIONS IN mm UNLESS STATED. THIS IS A C.A.D. DRAWING AND MUST NOT BE ALTERED BY MANUAL METHODS.



OPTION 1. FOR PANEL SHED, 301200 &301225

OPTION 2. FOR GARAGE, 301250 &301300

OPTION 3. FOR ALL

APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 32 of 34
Central Hawkes Bay
District Council



PH: +61 (07) 3803 4044 FAX: +61 (07) 3803 2220

VERSATILE BUILDINGS LTD ENGINEERING DETAILS

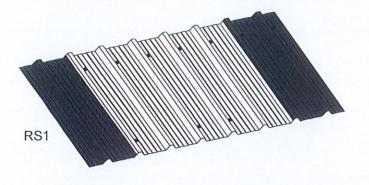
COPYRIGHT: THESE DRAWINGS MUST NOT BE REPRODUCED WITHOUT EXPRESS PERMISSION OF VERSATILE BUILDINGS LTD.

L	MATERIAL DATA .								
	SLIT	GAUGE	TENSILE	COLR.	CODE				
1	100	0.3	550	ZN	301225				
ħ	100	0.35	550	СB	301250				
1	100	0.35	550	ZN	301300				
L									
l									
•									

REVISION)	DRAWN:	DATE:
DESCRIPTION	DATE	7	PK	08/08/2018
		t	CHECKED:	SCALE:
	-		(1:5

ı	DRAWING TITLE:	_
	7 RIB	
٦	DRAWING NUMBER:	REVISION:
	ଉଲ୍ୟ ଉଉଛ	i

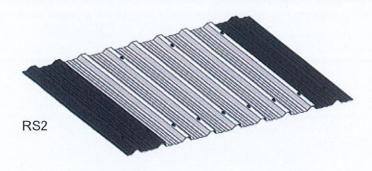
Roof Sheeting



6 Rib

The cladding for roof sheeting shall be fixed using Cladding Hex Tek #12x45 to all purlins, except the ridge purlin, and extend 50mm into the gutter.

On middle purlins tek rib on every join then miss one, place two. On gutter purlin tek every rib.



7 Rib

The cladding for roof sheeting shall be fixed with Cladding Hex Tek #12x35 to all purlins, except the ridge purlin, and extend 50mm into the gutter.

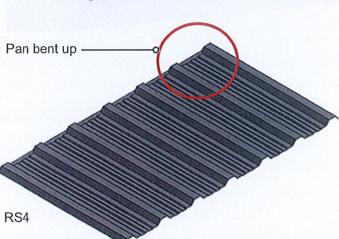
On middle purlins tek every second rib. On gutter purlins tek every rib.



Corrugate

The cladding for roof sheeting shall be fixed with Cladding Hex Tek #12x35 to all purlins, except the ridge purlin, and extend 50mm into the gutter.

On middle purlins tek on rib at every join then miss two, tek one, miss three, tek one. On gutter purlins tek every second rib.



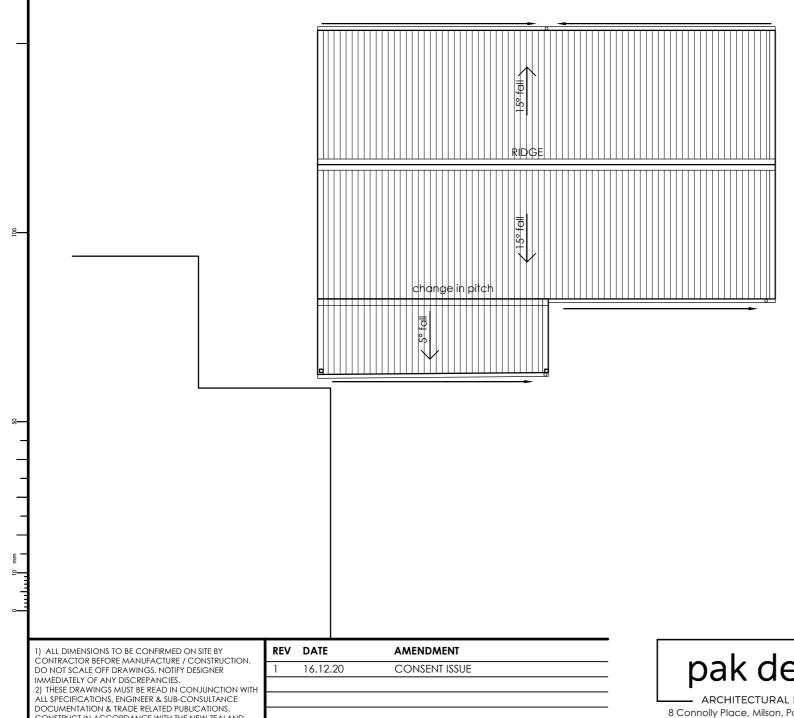
C

Pan Detail to Ridge

Roof Sheeting to have pans bent up, as shown, to ridge end. Use a crescent if no suitable bending tool is available.

APPROVED
BC210007
22/02/2021
Andrew Nichols
Page 33 of 34
Central Hawkes Bay
District Council

APPROVED BC210007 22/02/2021 **Andrew Nichols** Page 34 of 34 Central Hawkes Bay **District Council**



CONSENT ISSUE

16.12.20

CONSTRUCT IN ACCORDANCE WITH THE NEW ZEALAND BUILDING CODE & OTHER STATUTORY, REGULATORY

DOCUMENTS & TERRITORIAL AUTHORITY REQUIREMENTS.

ROOFING NOTES:

- 1. Fix Roof cladding in accordance with manufacturers specifications, render water tight all flashing at hips, valleys and ridge.
- 2. All Ridge, Valley, Barge, Eaves & Exposed Apron Flashing to be Colorcote Colorsteel 0.55BMT Unless otherwise stated.
- 3. Execute and complete all plumbing and drainage requirements in accordance with NZBC E1



RO	ROOF DRAINAGE CALCULATION							
DP#	PLAN AREA	AREA TOTAL (m²)	Roof Pitch:	15°				
dp1	o1 43 x 1.13 49	Spouting: Roofing:	125mm $\frac{1}{4}$ round profile Trapezoidal					
dp2	22 x 1.13	25	Rain Fall: Max Roof Area: Down Pipe Size: Max Down Pipe	100mm/hr				
dp3	33 x 1.13	37		80Ø Colorsteel				
l			·					
			ROOF PERIME	ETER LENGTH - 38m ±				

PROJECT: Tritt Home Homewood Rd, Wapawa	DESIG
	ISSUE
DRAWING TITLE:	SCALE

Roof Drainage Plan

	1:100 1:50	L104	R1
SCALE:	1.100	DRAWING #:	REV:
ISSUE:	Consent	CHECKED:	MCJ
DESIGNED:	: MCJ	DRAWN:	MCJ

JOB #:

20030

20-Dec-17

pak design

- ARCHITECTURAL DESIGNERS 8 Connolly Place, Milson, Palmerston North 4414 P: 06 350 3902 C:027 204 9423 E:office@pakdesign.co.nz W:www.pakdesign.co.nz COPYRIGHT © ALL RIGHTS RESERVED