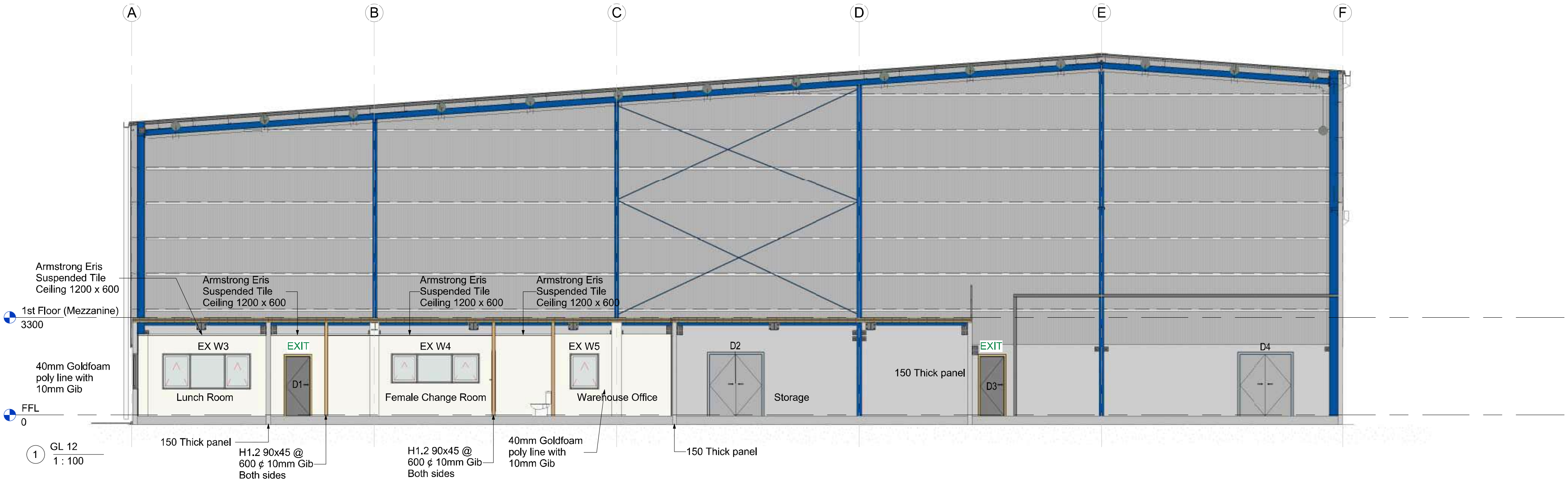

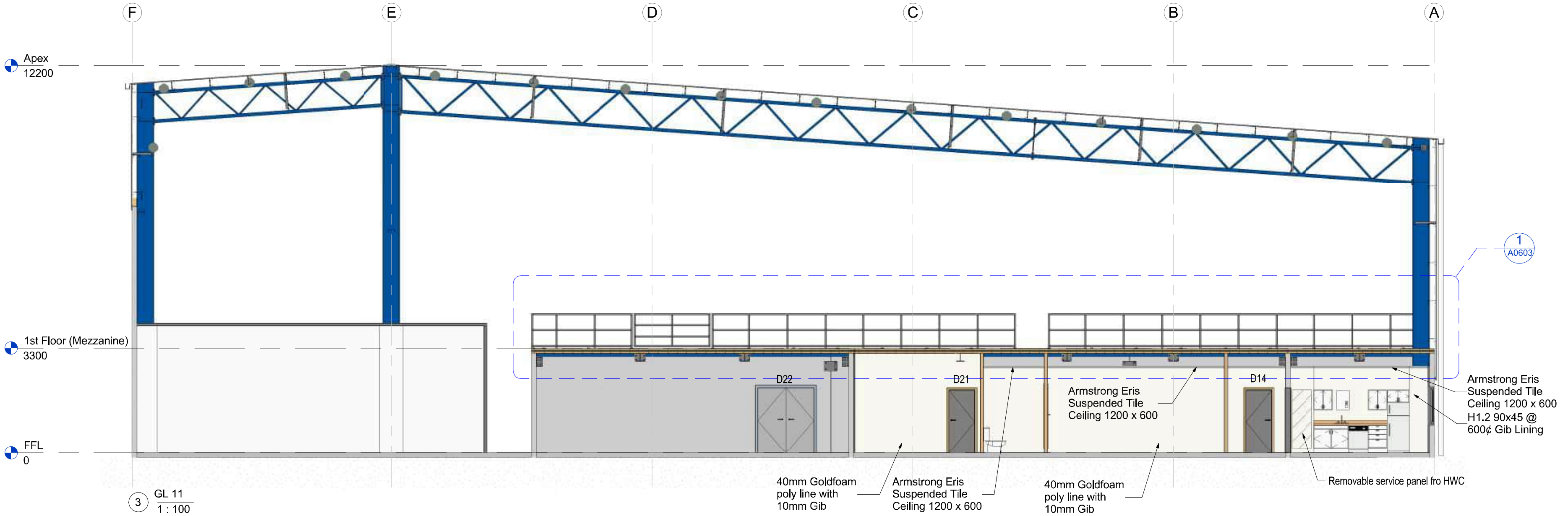

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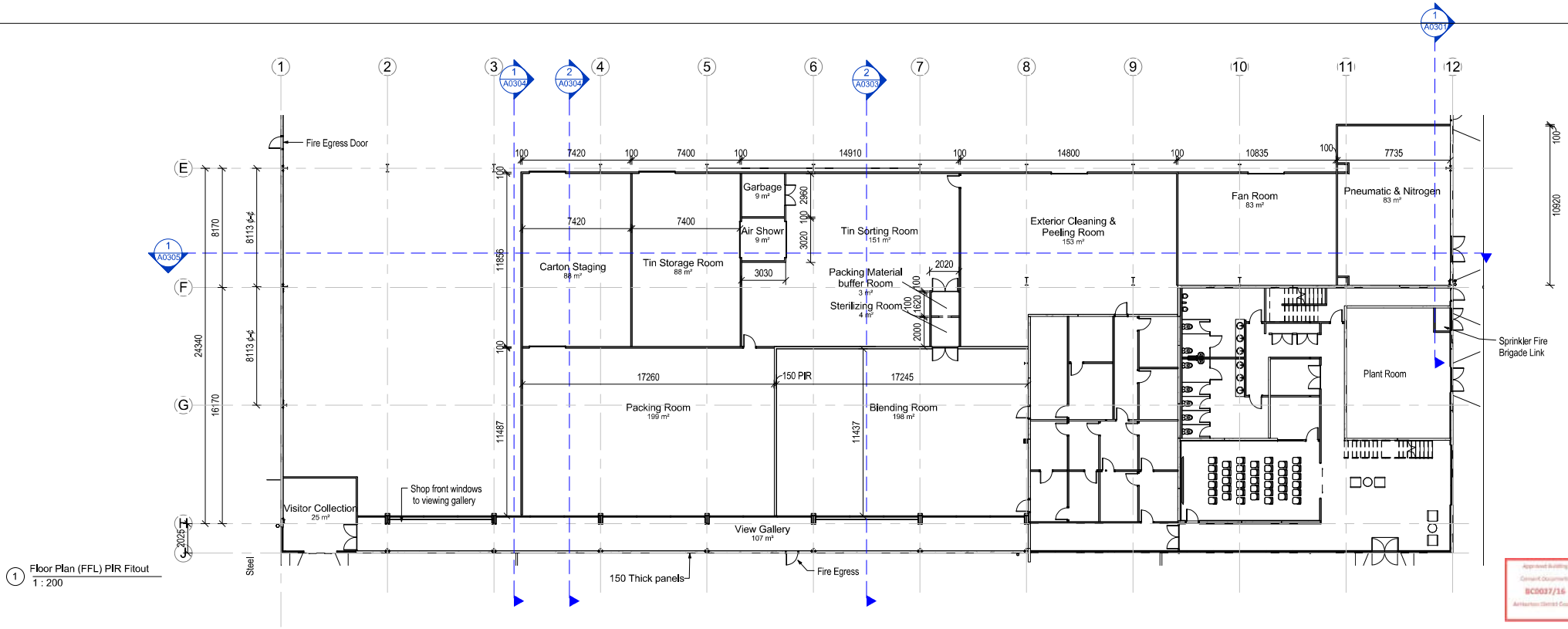
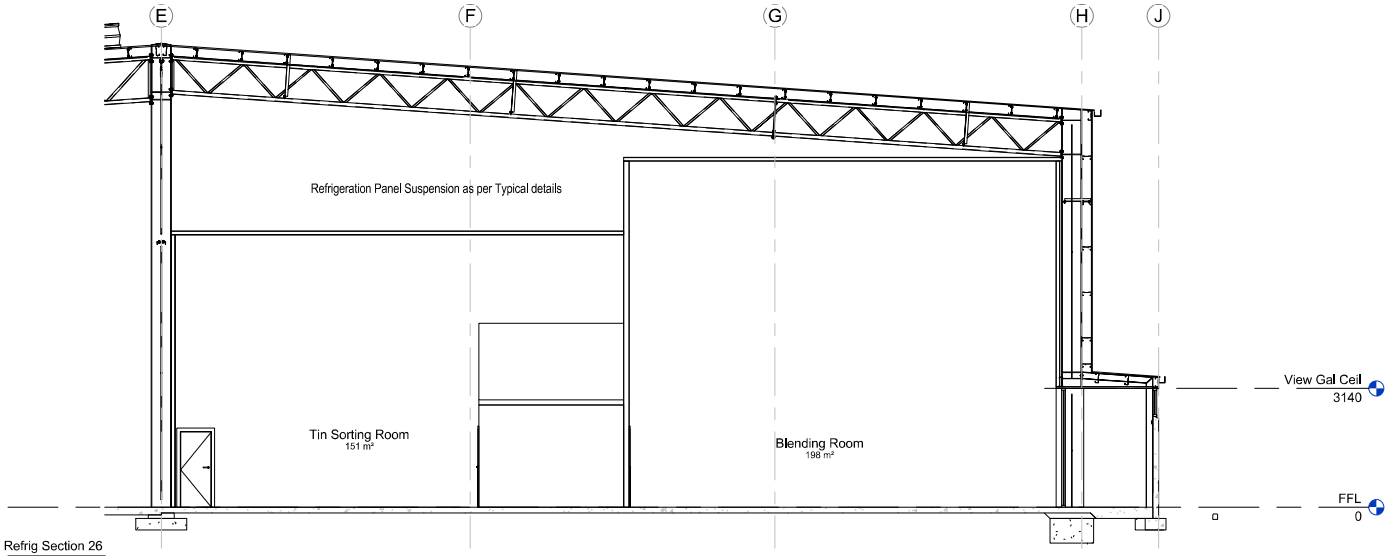
						Cross Sections Please note: All dimensions to be verified on site	A0301 Paper size: A2



1 Floor Plan (FFL) PIR Fitout
1 : 200



2 Refrig Section 26
1 : 100

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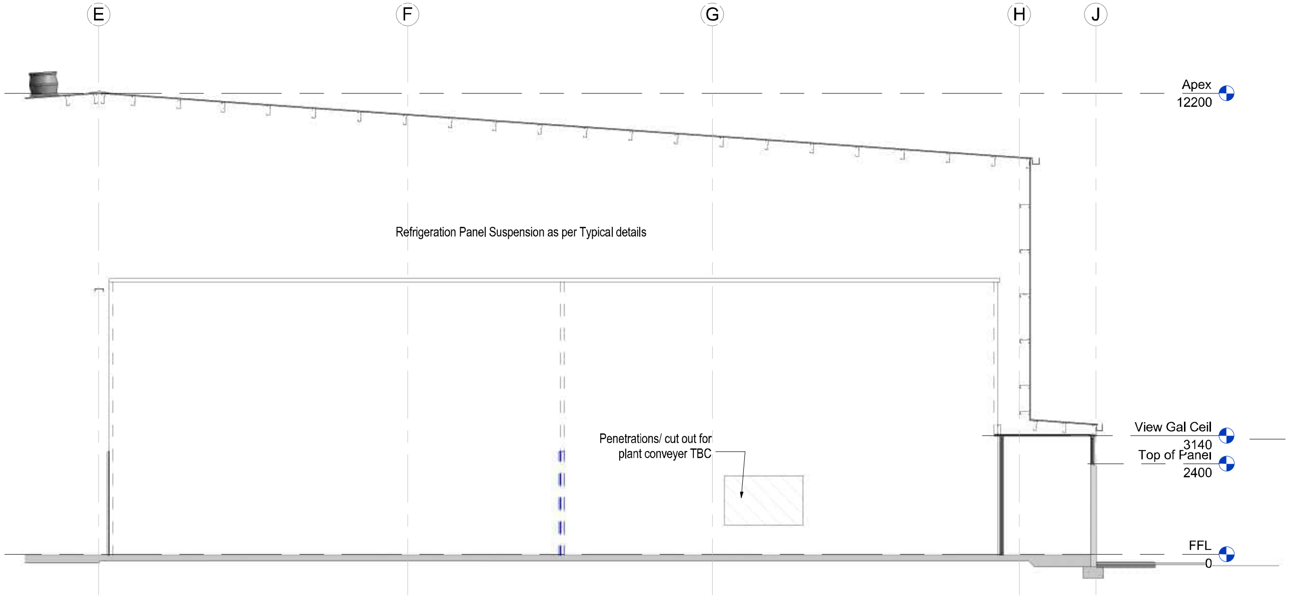
NZ Dairy Collaborative Group

Infant Formula Blending Plant

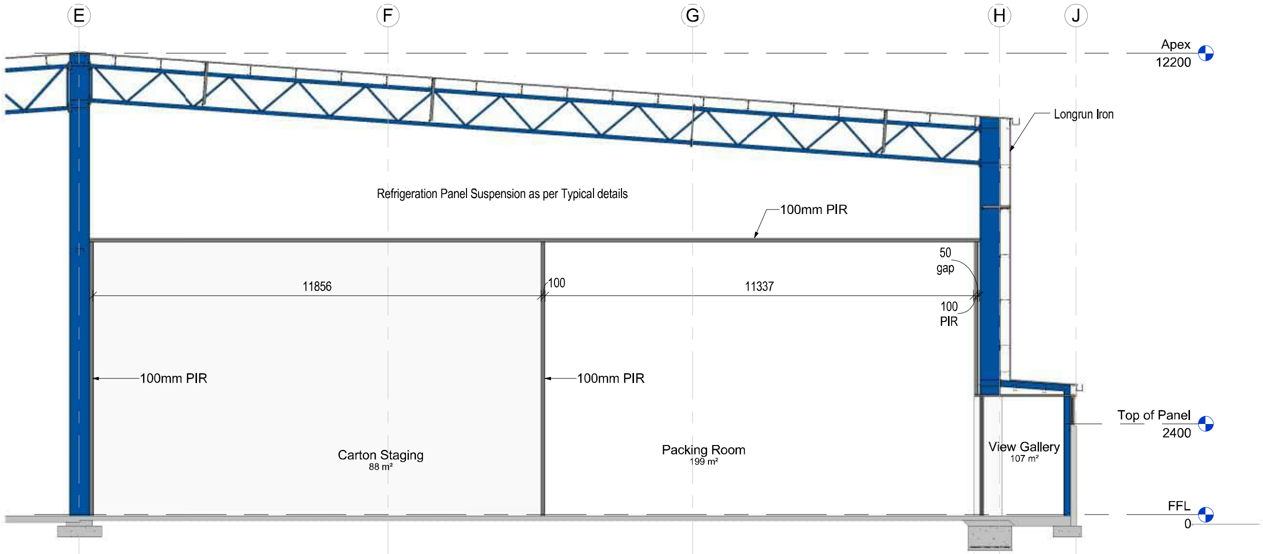
9 Ashford Ave., Ashburton

Rev#	Amendments	Date

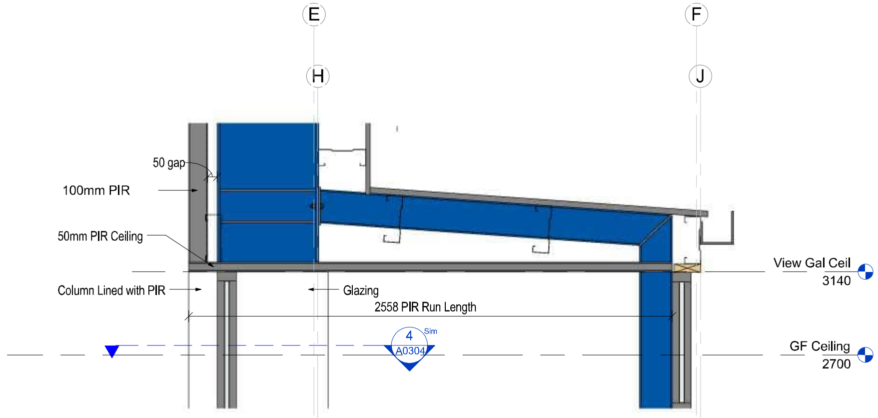
SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	B.Holloway	DATE	23/01/16
APPROVED BY		REV	
Refrig Fitout Plan and Sections			A0303
Please note: All dimensions to be verified on site		Paper size:	A2



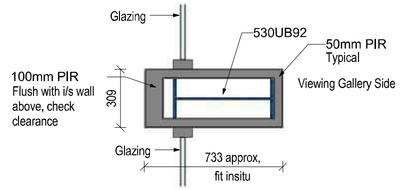
1 Refrig Gridline 1
1 : 100



2 Refrig Gridline 4
1 : 100



3 Viewing Gallery Ceiling
1 : 20



4 530UB92 Lining
1 : 20

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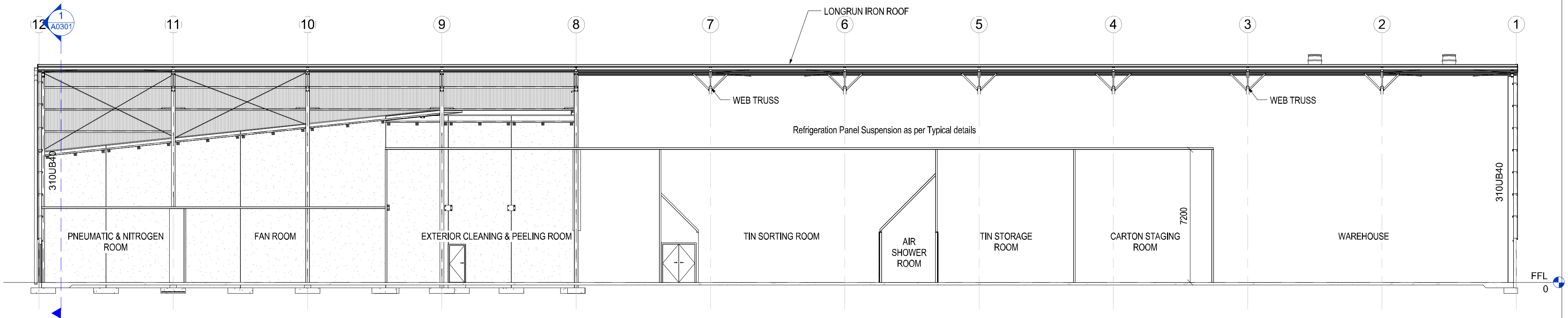
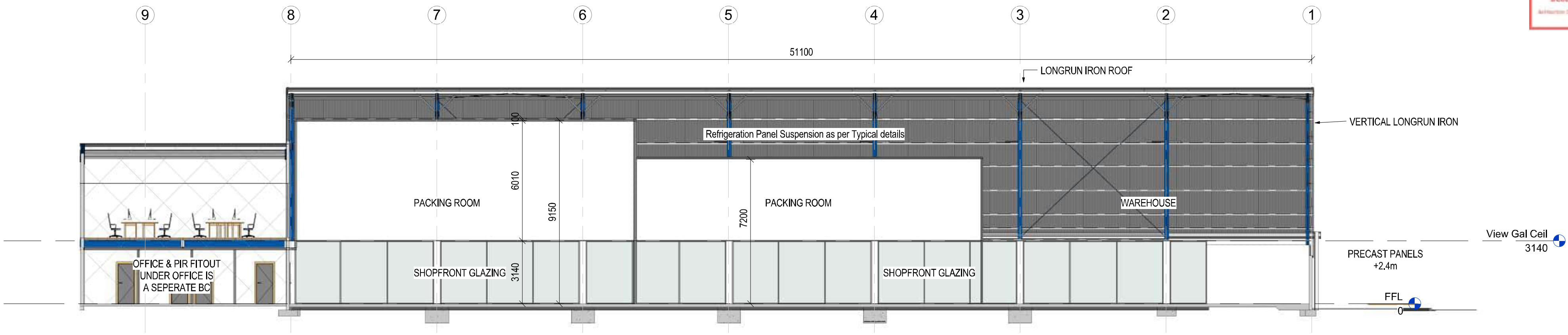
NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

Rev#	Amendments	Date

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	B.Holloway	DATE	23/01/16
APPROVED BY		REV	
Refrig Fitout Sections		A0304	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Refrig Gridline D
1 : 150



2 Refrig Gridline E
1 : 150

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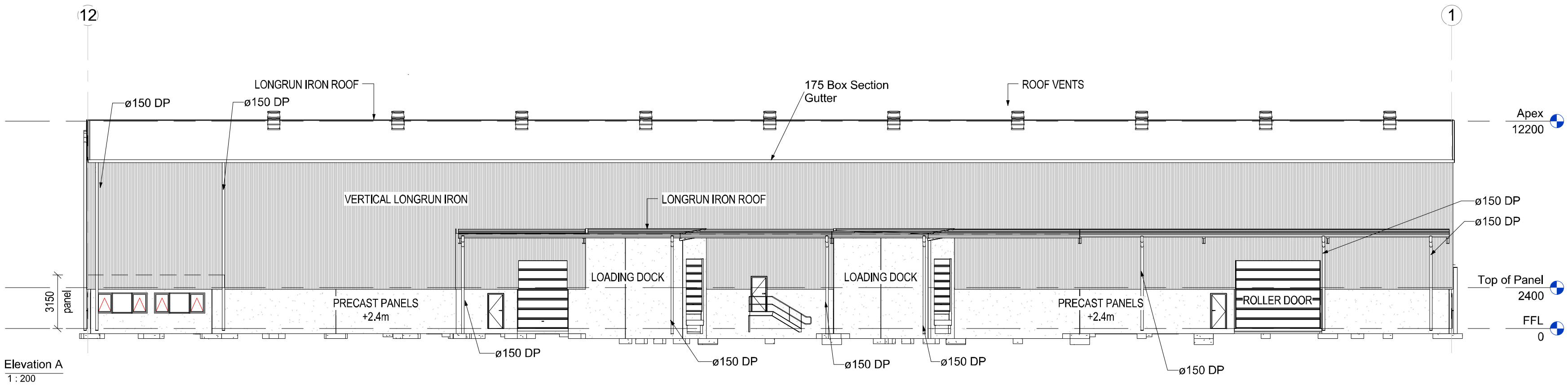
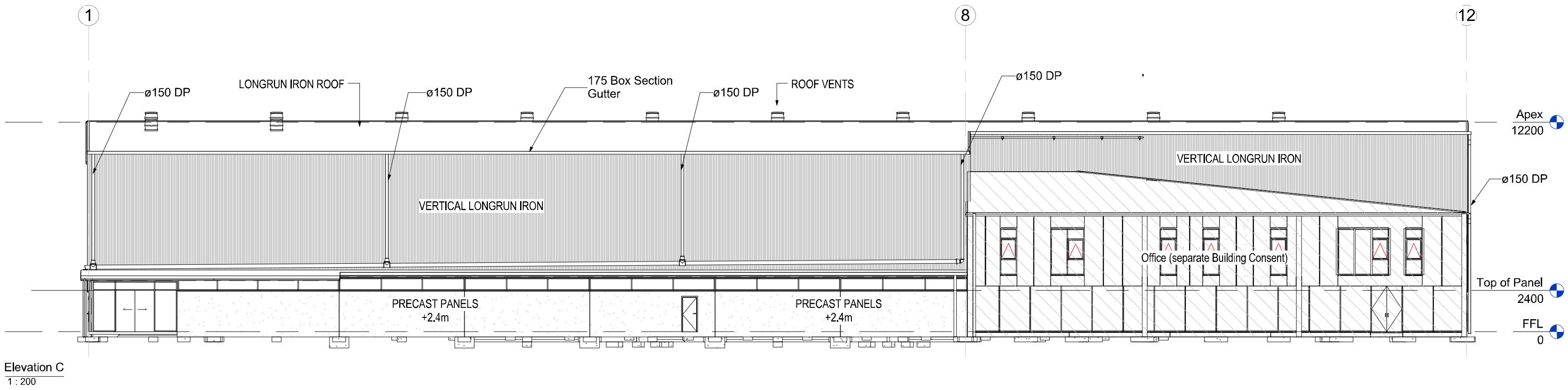
9 Ashford Ave., Ashburton

Rev#	Amendments	Date

SCALE	1 : 150 @ A2	JOB #	12412
DRAWN BY	B.Holloway	DATE	23/01/16
APPROVED BY		REV	
Refrig Fitout Sections			A0305
Please note: All dimensions to be verified on site		Paper size:	A2



Elevation A
1 : 200



Elevation C
1 : 200

BC0037/16

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NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

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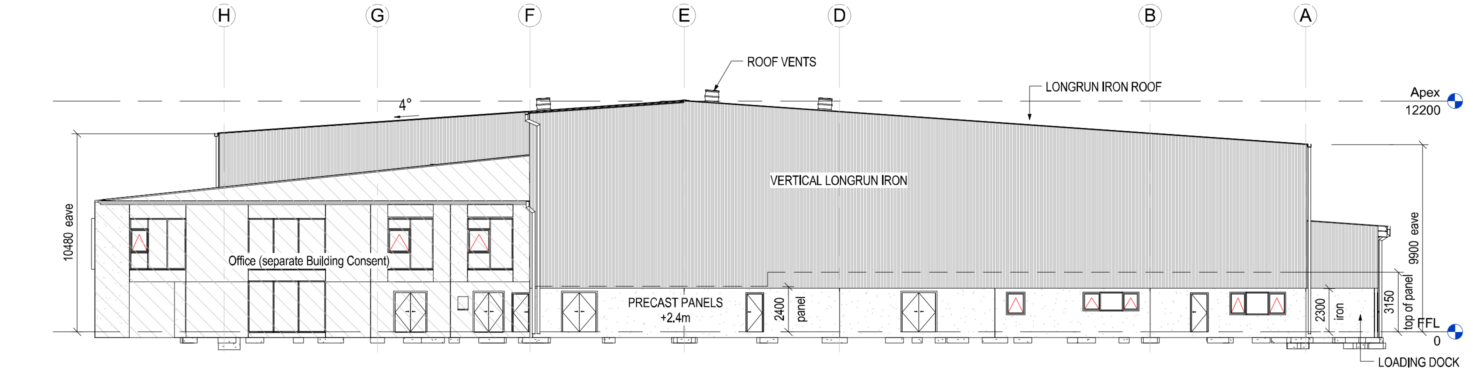
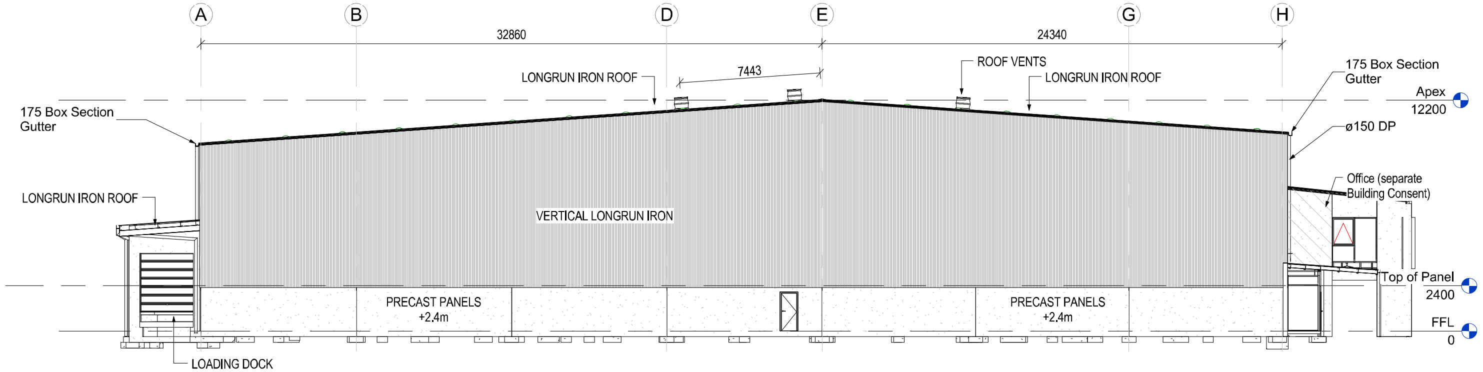
Rev#	Amendments	Date

SCALE	1 : 200 @ A2	JOB #	12412
DRAWN BY	M Valentine	DATE	23/01/16
APPROVED BY	A. Cloake	REV	
Elevations A and C			A0400
Please note: All dimensions to be verified on site			Paper size: A2

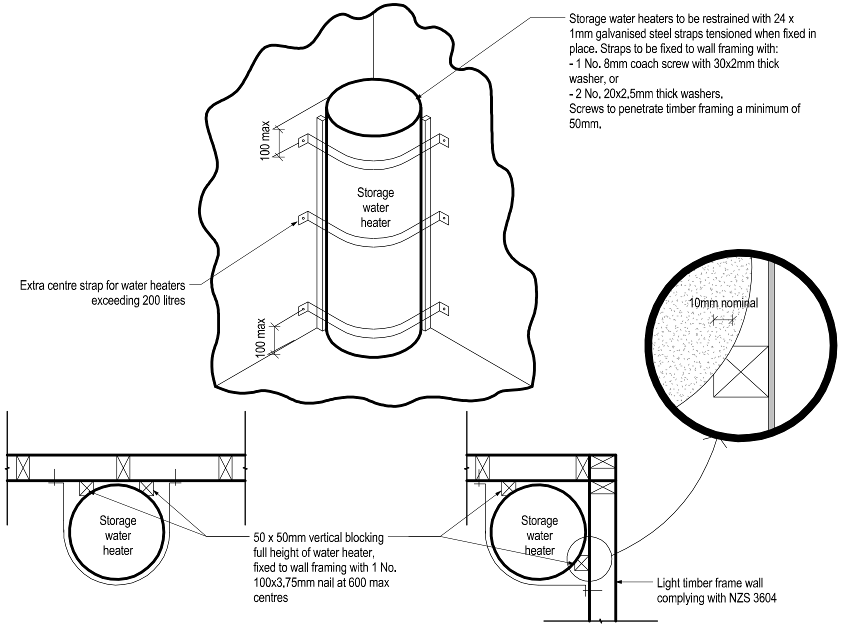


Elevation B
1 : 200

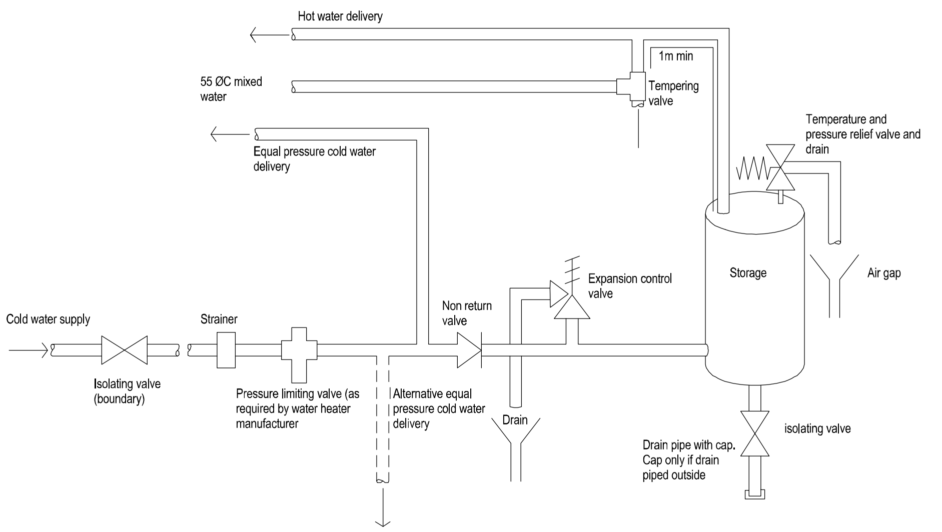


Elevation D
1 : 200

THOMPSON CONSTRUCTION & ENGINEERING	PROJECT	Rev#	Amendments	Date	SCALE 1 : 200 @ A2 / JOB # 12412
Thompson Engineering 2002 Ltd | PO Box 2081, Washdyke - Timaru | 9b Meadows Road - Timaru | www.thompsonengineering.co.nz | design@thompsonengineering.co.nz	NZ Dairy Collaborative Group Infant Formula Blending Plant 9 Ashford Ave., Ashburton				DRAWN BY M Valentine / DATE 23/01/16
	Arch				APPROVED BY A. Cloake / REV
	All Drawings property of Thompson Engineering 2002 Ltd				Elevations B and D / A0401
					Please note: All dimensions to be verified on site / Paper size: A2



1 HWC restraint
1 : 10



2 HWC (unvented)
1 : 10

PLUMBING LEGEND

FIXTURE	PIPE SIZE	GRADIENT
WC	100Ø	1:60
Vanities	65Ø	1:40
Wash Trough	40Ø	1:40
Shower	40Ø	1:40
Sink	65Ø	1:40
Urinal	50Ø	1:20
Foul Drain	100Ø	1:60
Stormwater	as per plan	as per plan

sewer
water
stormwater

All fixtures to be back vented or to approval of inspector on-site

Internal plumbing to ASNZ 3500.2.2003

Refer to TM Consulants civil plans for plumbing and drainge for details

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NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

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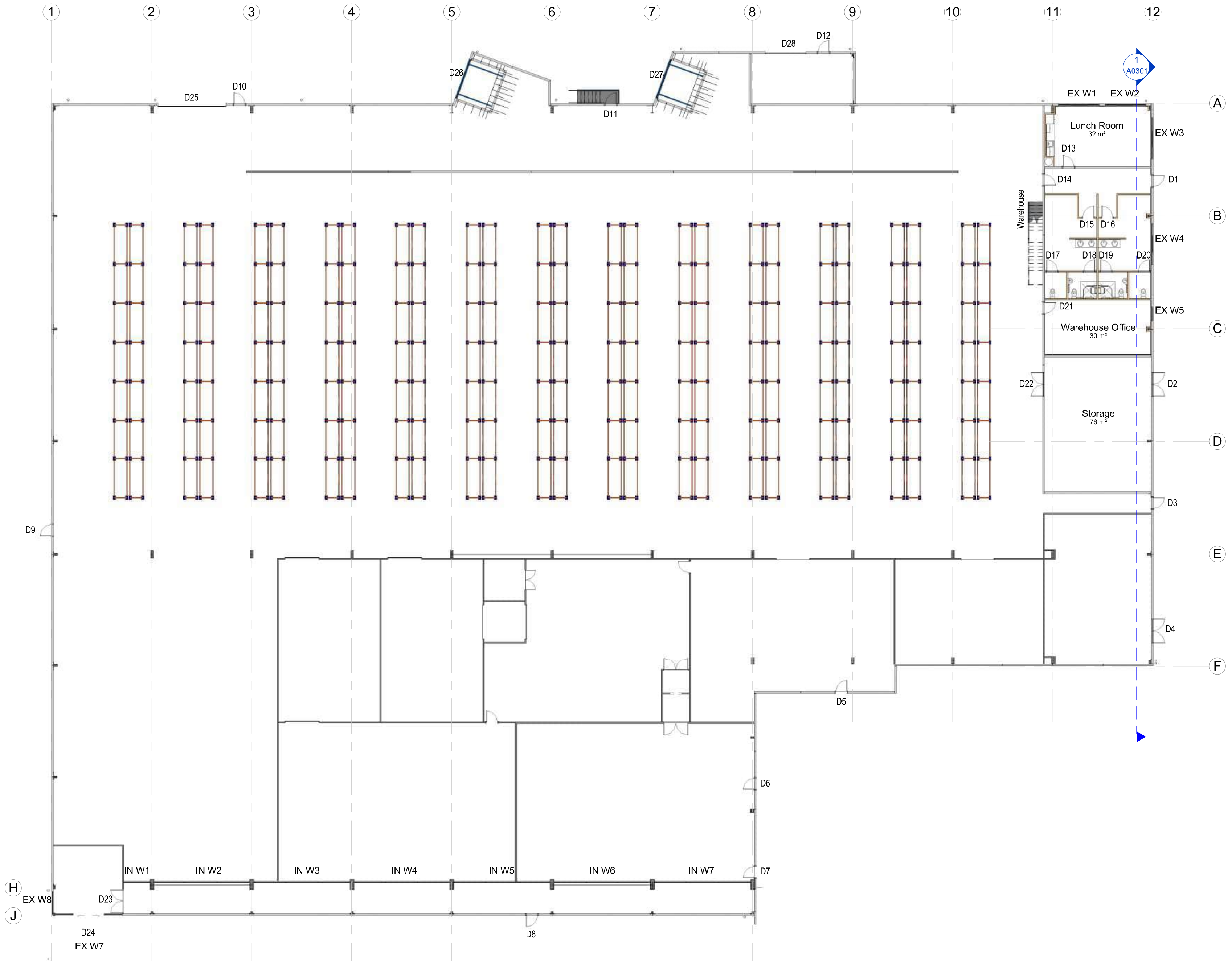
Rev#	Amendments	Date

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY		REV	
Plumbing Ground Floor		A0500	
Please note: All dimensions to be verified on site		Paper size: A2	



Ground floor Door plan
1 : 200

Door Schedule

Mark	Type	Width	Rough Height
D1	810 leaf in precast panel External	810	2000
D2	810 Double leaf in precast panel External	1760	2070
D3	810 leaf in precast panel External	810	2000
D4	810 Double leaf in precast panel External	1760	2070
D5	810 leaf in precast panel External	810	2000
D6	810 leaf in precast panel External	810	2000
D7	810 leaf in precast panel External	810	2000
D8	810 leaf in precast panel External	810	2000
D9	810 leaf in precast panel External	810	2000
D10	810 leaf in precast panel External	810	2000
D11	810 leaf in precast panel External	810	2000
D12	810 leaf in precast panel External	810	2000
D13	810 leaf in precast panel Internal	810	2000
D14	810 leaf in precast panel Internal	810	2000
D15	810x1980 leaf in timber frame	810	1980
D16	810x1980 leaf in timber frame	810	1980
D17	810x1980 leaf in timber frame	810	1980
D18	810x1980 leaf in timber frame	810	1980
D19	810x1980 leaf in timber frame	810	1980
D20	810x1980 leaf in timber frame	810	1980
D21	810 leaf in precast panel Internal	810	2000
D22	810 Double leaf in precast panel Internal	1760	2070
D23	810 Double leaf in freezer panel	1760	2070
D24	Double Doors (Sliding)	2225	2400
D25	4m h x 5m w Roller Door	5000	4000
D26	3.1m h x 3m w Roller Door	3000	3100
D27	3.1m h x 3m w Roller Door	3000	3100
D28	4m h x 3m w Roller Door	3000	4000

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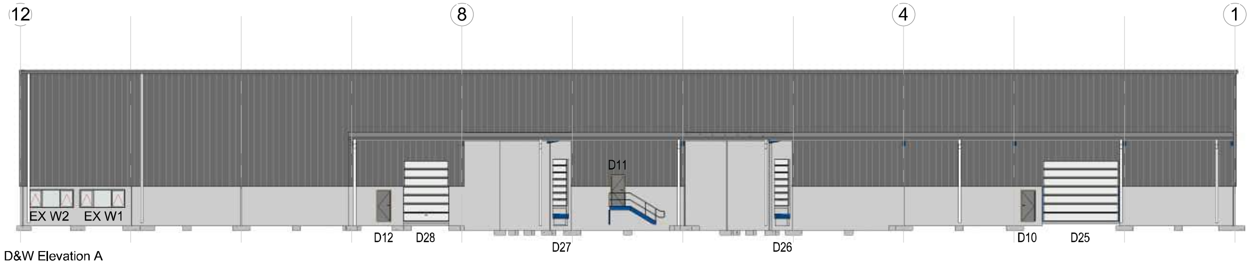
Rev#	Amendments	Date

SCALE 1 : 200 @ A2
JOB # 12412
DRAWN BY C. White
DATE 23/01/16
APPROVED BY A. Cloake
REV
D W Ground Floor Plan
A0600
Please note: All dimensions to be verified on site
Paper size: A2



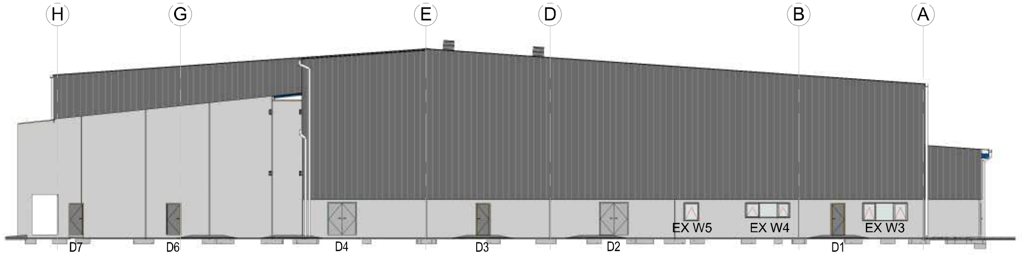
7 D&W Elevation A
1 : 250

D & W Schedule NOTE:

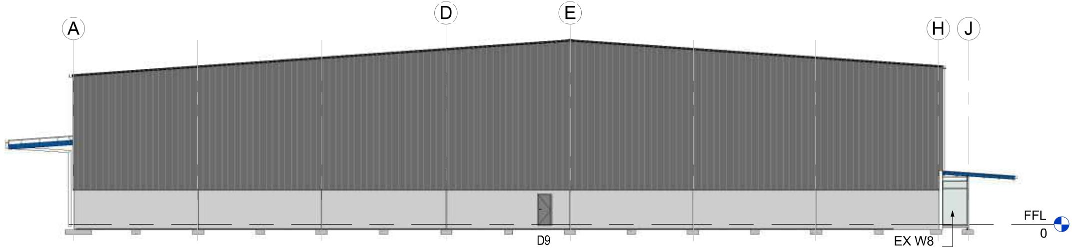
The main contractor is to ensure all door and window opening dimensions are checked prior to the manufacturer of any doors or windows,
refer to the floor plans and elevations for positions.
Glazing within 1500mm above the FFL is to be grade A safety glass in accordance with table 3.1, glazing greater than 1500 of the floor level to be annealed glass NZS 4223;part 4 & part 3

External Window Schedule

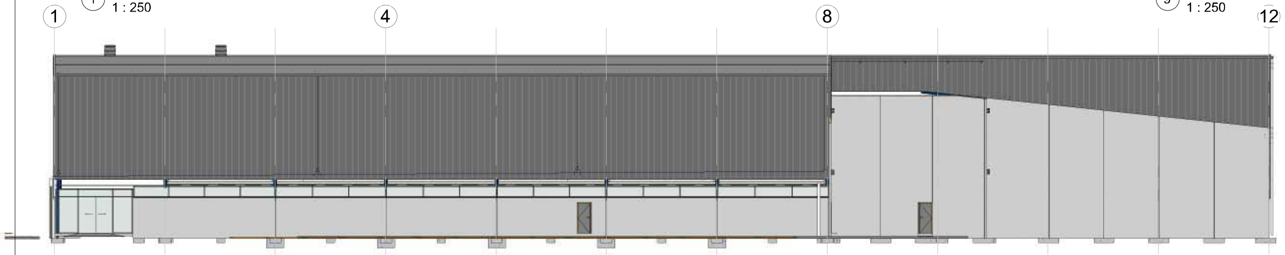
Mark	Type	Unconnected Height	Length	Area
EX W1	Soverign Series Double Glazed	1200	2980	3.58 m²
EX W2	Soverign Series Double Glazed	1200	2980	3.58 m²
EX W3	Soverign Series Double Glazed	1200	2982	3.58 m²
EX W4	Soverign Series Double Glazed	1000	2982	2.98 m²
EX W5	Soverign Series Double Glazed	1200	1000	1.2 m²
EX W6	Commercial Series	736	46080	33.86 m²
EX W7	Commercial Series	2936	4950	14.39 m²
EX W8	Commercial Series	2936	1675	4.92 m²
Grand total: 8				68.08 m²



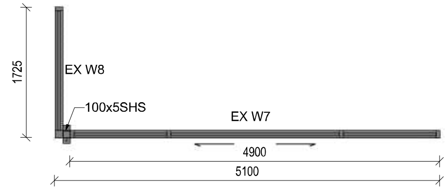
1 D&W Elevation B
1 : 250



9 D&W Elevation D
1 : 250

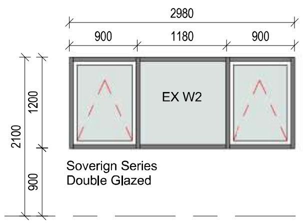


8 D&W Elevation C
1 : 250

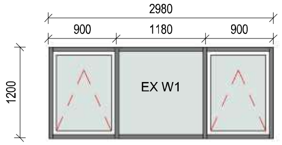


13 EX W7 & 8 Plan
1 : 50

BC0037/16



Soverign Series
Double Glazed



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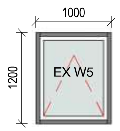
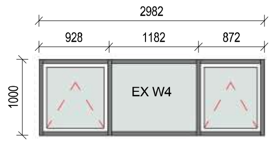
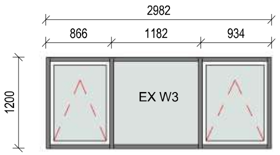
Double Glazed



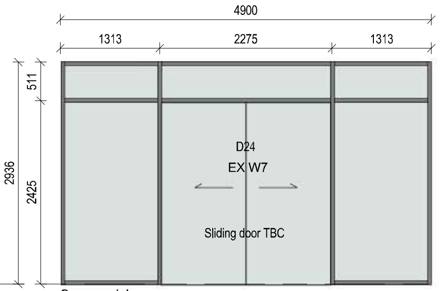
Soverign Series
Double Glazed



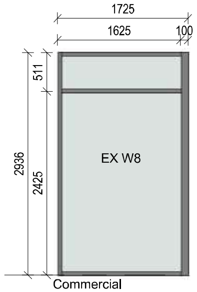
Soverign Series
Double Glazed
Obscure Glass (Toilets)



Soverign Series
Double Glazed

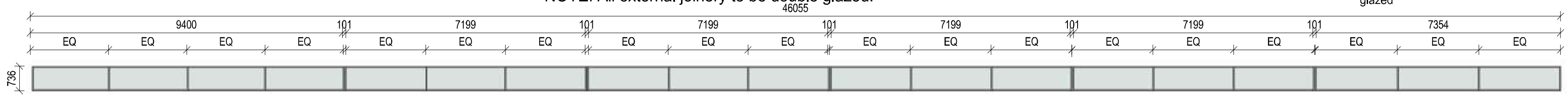


Commercial
Series double
glazed



Commercial
Series double
glazed

NOTE: All external joinery to be double glazed.



10 EX W6
1 : 100

Commercial
Series double
glazed

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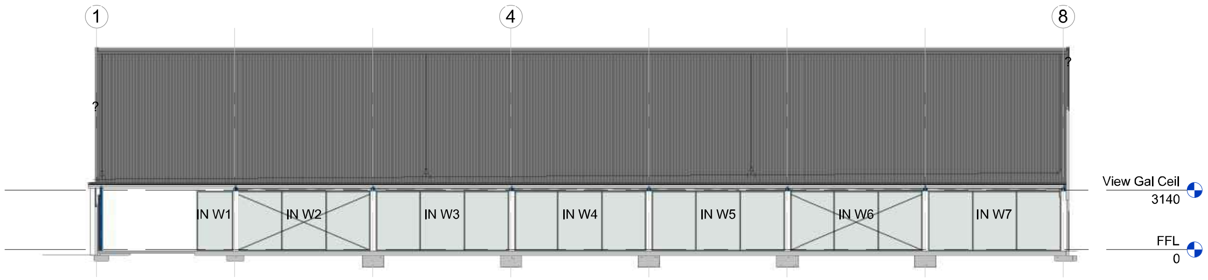
PROJECT	NZ Dairy Collaborative Group Infant Formula Blending Plant 9 Ashford Ave., Ashburton
	Arch
Rev#	
Amendments	
Date	
SCALE	As indicated@ A2
JOB #	12412
DRAWN BY	C. White
DATE	23/01/16
APPROVED BY	A. Cloake
REV	
	D W External
	A0601
Paper size:	A2

Please note: All dimensions to be verified on site



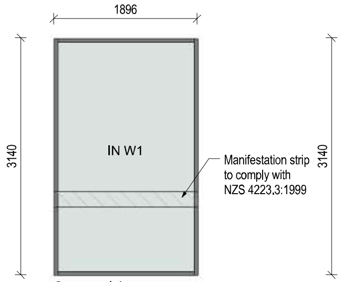
Internal window elevations
1 : 200

D & W Schedule NOTE:

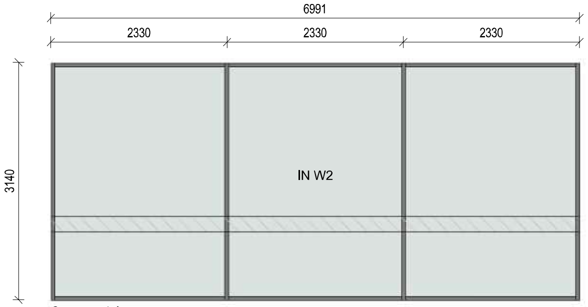
The main contractor is to ensure all door and window opening dimensions are checked prior to the manufacturer of any doors or windows,
refer to the floor plans and elevations for positions,
Glazing within 1500mm above the FFL is to be grade A safety glass in accordance with table 3.1, glazing greater than 1500 of the floor level to be annealed glass NZS 4223:part 4 & part 3

Internal Window Schedule

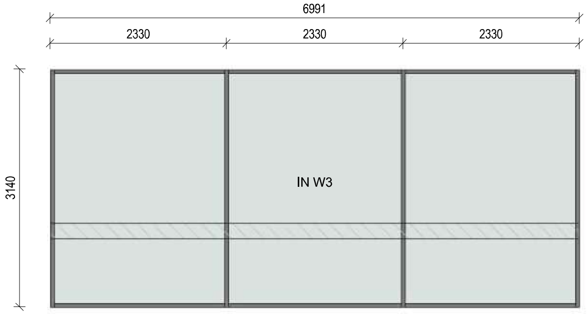
Mark	Type	Unconnected Height	Length	Area
IN W1	Commercial Series single glazed	3140	1971	5.95 m²
IN W2	Commercial Series single glazed	3140	7041	21.95 m²
IN W3	Commercial Series single glazed	3140	7041	21.95 m²
IN W4	Commercial Series single glazed	3140	7041	21.95 m²
IN W5	Commercial Series single glazed	3140	7041	21.95 m²
IN W6	Commercial Series single glazed	3140	7041	21.95 m²
IN W7	Commercial Series single glazed	3140	7041	21.95 m²
Grand total: 7				137.66 m²



Commercial Series, single or double glazed (TBC)



Commercial Series, single or double glazed (TBC)



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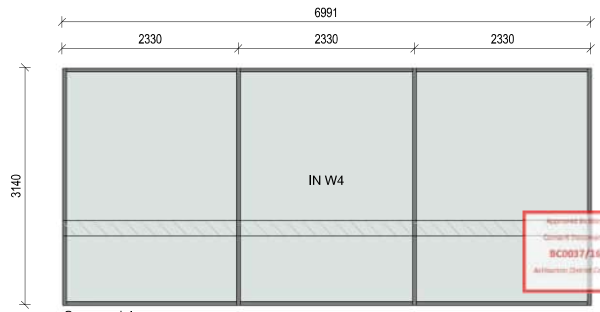

Commercial Series, single or double glazed (TBC)

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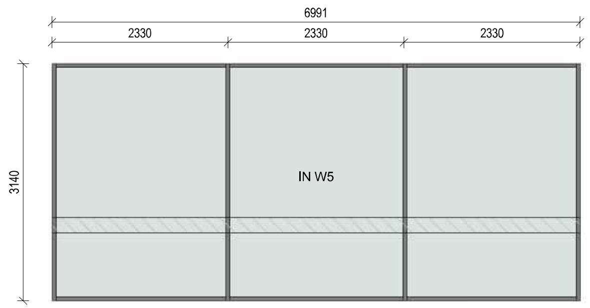
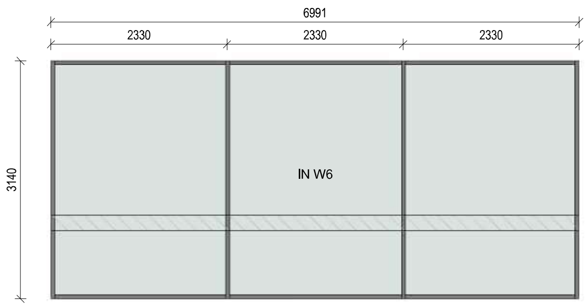
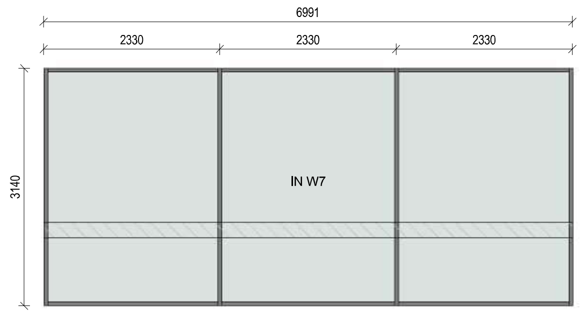


Commercial Series, single or double glazed (TBC)



Commercial Series, single or double glazed (TBC)



Commercial Series, single or double glazed (TBC)

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PROJECT

Arch

NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

Rev#	Amendments	Date

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY	A. Cloake	REV	
D W Internal		A0602	

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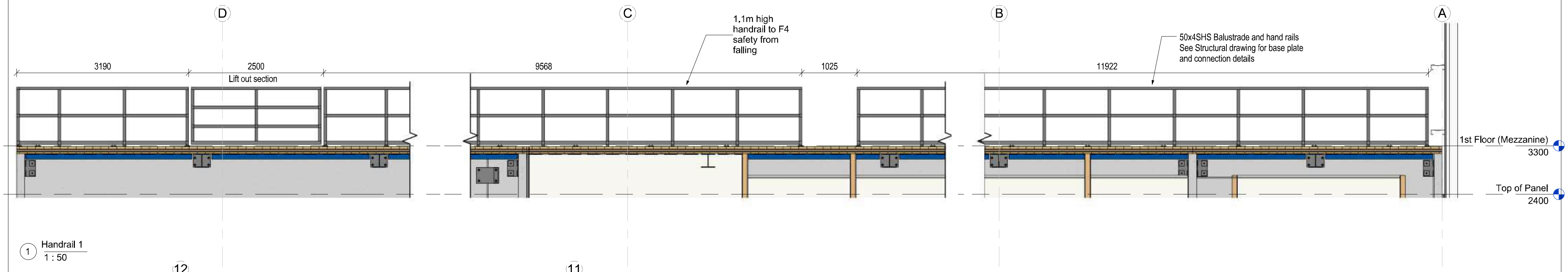
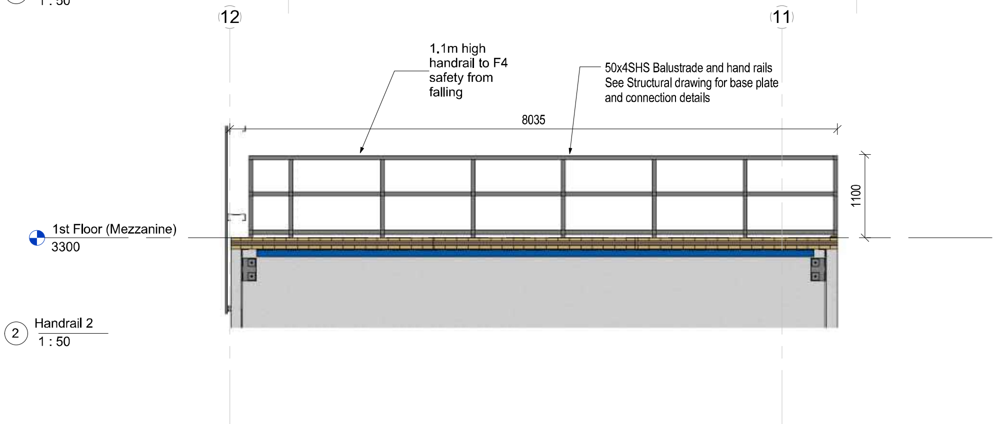


Handrail 1
1 : 50



Handrail 2
1 : 50

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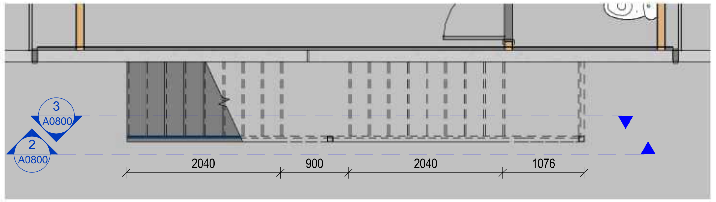
9 Ashford Ave., Ashburton

Rev#	Amendments	Date

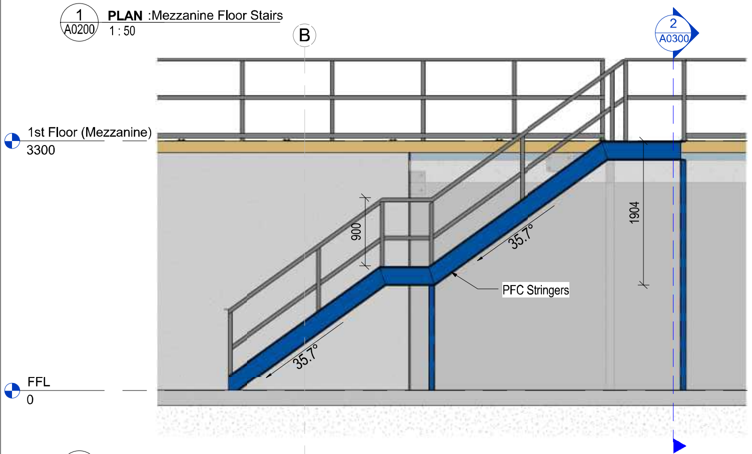
SCALE	1 : 50 @ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY	A. Cloake	REV	
Balustrades		A0603	
Please note: All dimensions to be verified on site		Paper size: A2	

BC0037/16

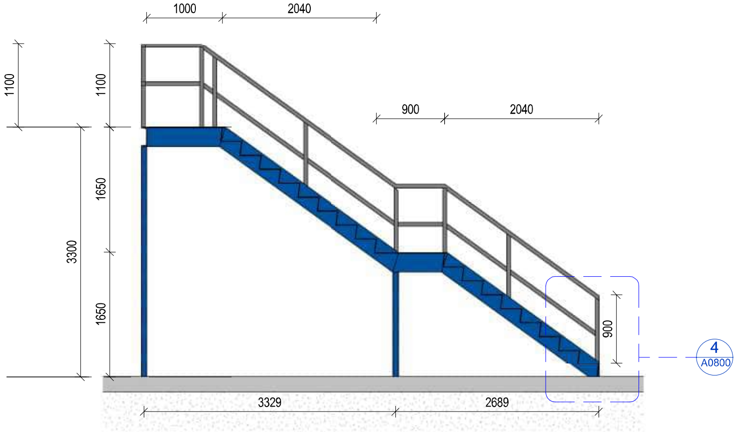
Document Set ID: 1681108
Version: 1, Version Date: 26/03/2026



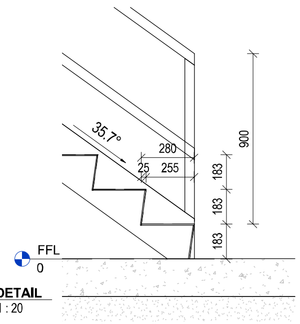
1 A0200 **PLAN** :Mezzanine Floor Stairs
1 : 50



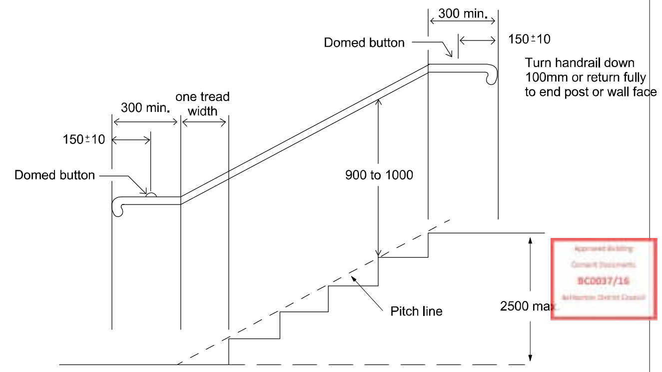
2 A0800 **DETAIL** :Mezzanine Floor Stairs
1 : 50



3 A0300 **SECTION**
1 : 50



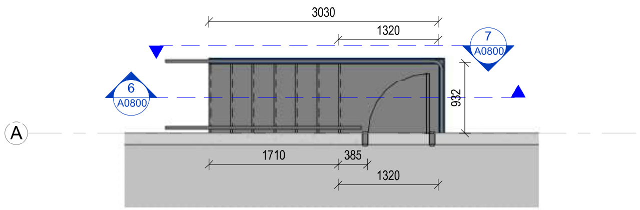
4 A0800 **DETAIL**
1 : 20



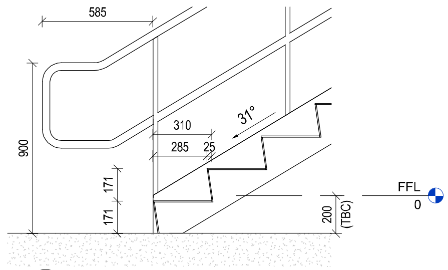
NOTE:
(1) The dimensions indicating the heights of handrails are taken from the nosing of the tread to the top of the handrail.

(2) The 300mm extension is not required where the handrail is continuous, e.g. on the inside of an intermediate landing.

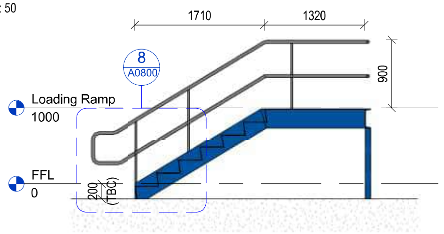
NZS 4121-2001 Figre 23 pitchline and extension of handrails
1 : 50



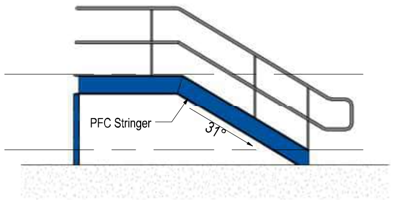
5 A0200 **PLAN** :Dock level Stairs
1 : 50



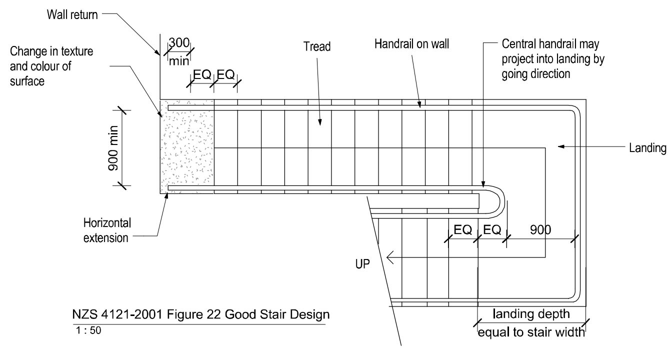
8 A0800 **DETAIL**
1 : 20



6 A0800 **SECTION** :Dock Stair
1 : 50

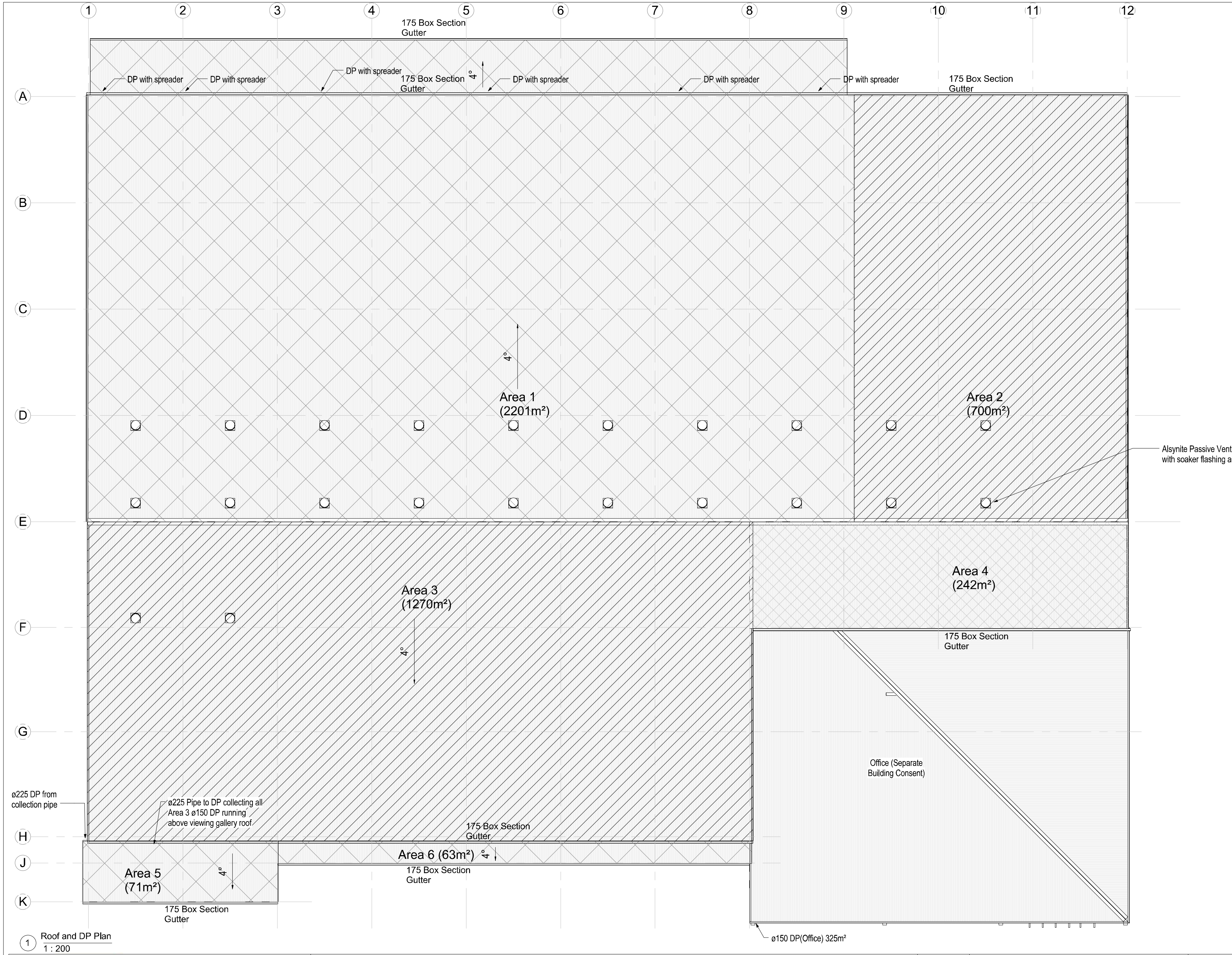


7 A0800 **SECTION**
1 : 50



NZS 4121-2001 Figure 22 Good Stair Design
1 : 50

THOMPSON CONSTRUCTION & ENGINEERING	PROJECT	NZ Dairy Collaborative Group	Rev#	Amendments	Date	SCALE As indicated@ A2	JOB # 12412
Thompson Engineering 2002 Ltd | PO Box 2081, Washdyke - Timaru | 9b Meadows Road - Timaru PH 0800 688 716 | F (03) 688 7168 | www.thompsonengineering.co.nz | design@thompsonengineering.co.nz	Arch	Infant Formula Blending Plant				DRAWN BY C. White	DATE 23/01/16
		9 Ashford Ave., Ashburton				APPROVED BY A. Cloake	REV
		All Drawings property of Thompson Engineering 2002 Ltd				Stairs and Decks	A0800
						Please note: All dimensions to be verified on site	Paper size: A2



1 Roof and DP Plan
1 : 200

DOWNPIPE SCHEDULE

Downpipe size (mm) for 0-25° pitch roof for given roof area

Minimum internal Pipe Size	Plan area of roof served by the downpipe (m²)
63mm Ø	60
74mm Ø	85
100mm Ø	155
150mm Ø	350

SURFACE AREA CATCHMENTS

Total Roof Area = 4547m²
area 1 = 2201m² - 7 x 150 Ø DP's
area 2 = 700m² - 2 x 150 Ø DP's
area 3 = 1270m² - 4 x 150 Ø DP's
area 4 = 242m² - 1 x 150 Ø DP's
area 5 = 71m² - 1 x 74Ø DP's
area 6 = 63m² - 1 x 150 Ø DP's

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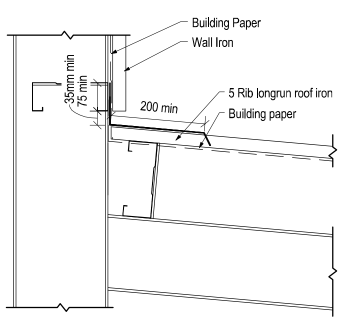
PROJECT
Arch

NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

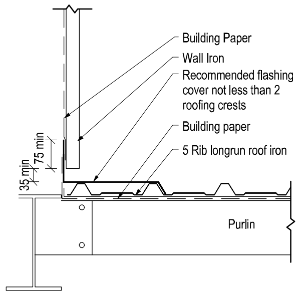
Rev#	Amendments	Date

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	B Holloway	DATE	23/01/16
APPROVED BY	A. Cloake	REV	
Roof Plan			A1300

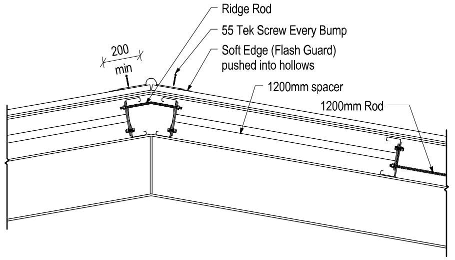
Please note: All dimensions to be verified on site
Paper size: A2



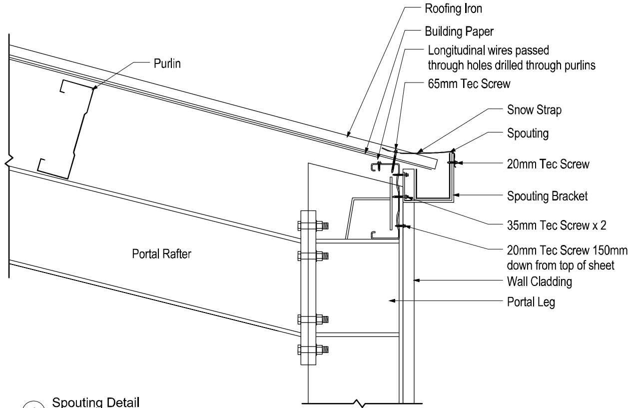
1 Apron Flashing to iron away
1 : 10



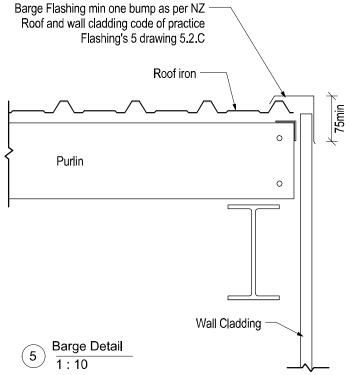
2 Apron Flashing to iron
1 : 10



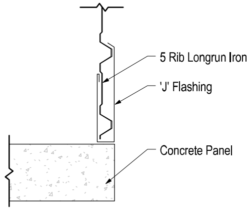
3 Ridge Flashing Detail
1 : 20



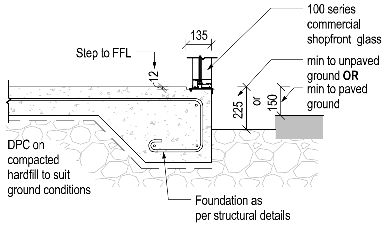
4 Spouting Detail
1 : 10



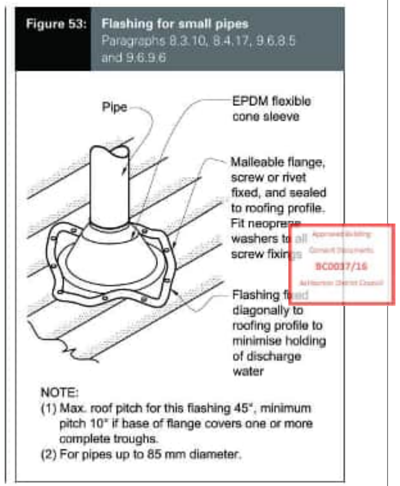
5 Barge Detail
1 : 10

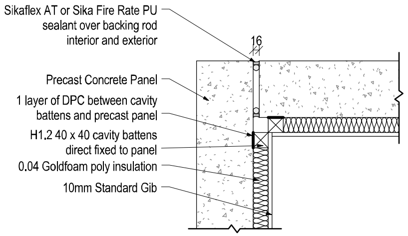


6 Cladding to Panel
1 : 10



7 Clearances to ground (std detail)
1 : 20





8 External Corner Precast Detail
1 : 10

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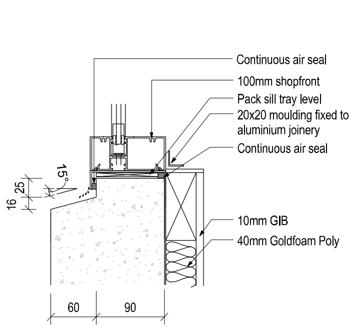
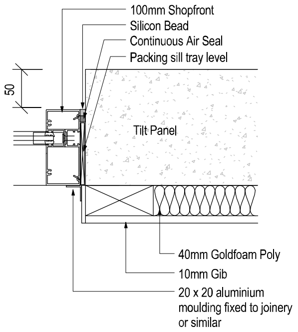
PROJECT
Arch
NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

Rev#	Amendments	Date

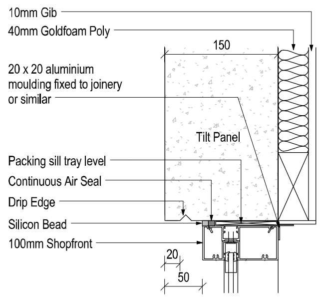
SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY	A. Cloake	REV	
Flashing Details		A1301	
Please note: All dimensions to be verified on site		Paper size: A2	



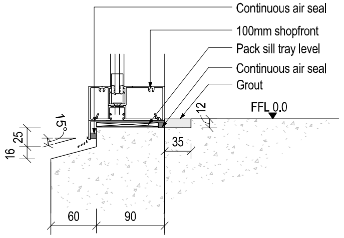
COMMERCIAL SILL DETAIL ABOVE FFL



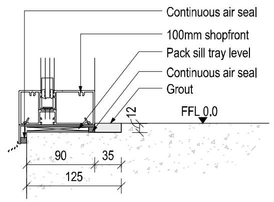
COMMERCIAL JAMB DETAIL



COMMERCIAL HEAD DETAIL

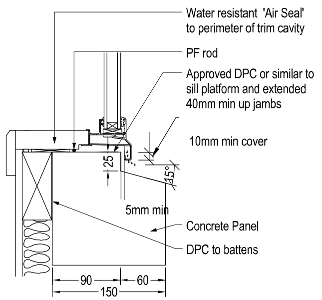


COMMERCIAL SILL DETAIL AT FFL IN PRECAST PANEL

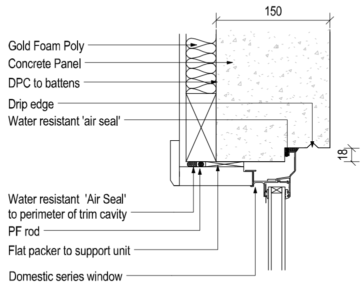


COMMERCIAL SILL DETAIL AT FFL STANDARD FOUNDATION EDGE

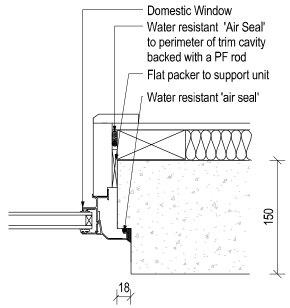
Commercial window details
1 : 5



WINDOW SILL DETAIL



DOMESTIC HEAD DETAIL



DOMESTIC JAMB DETAIL

Domestic window details
1 : 5

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PROJECT

Arch

NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

Rev#	Amendments	Date

SCALE	1 : 5 @ A2	JOB #	12412
DRAWN BY	A. Cloake	DATE	23/01/16
APPROVED BY		REV	
Flashing Details 2		A1302	
Please note: All dimensions to be verified on site		Paper size: A2	

NZBC H1 ENERGY EFFICIENCY - Small Buildings (> 300m²)

Floor Area - (to outside of external walls) 140m²

Wall Area	Glazing Area
South 20m²	South N/A (borders to factory)
East 490m²	East 17m²
West 490m²	West N/A (borders to factory)
Total Wall Area	Total Glazing Area
1000m²	17m²

Glazed Area = 0.17% of total wall area

If less than 30% then schedule method is OK

Climate Zone 3

SCHEDULE METHOD VM H1/VM1

Table 2(b) - Solid Construction (excluding solid timber) - Alternative minimum R-values for schedule method

Building Thermal Envelope Component	Minimum R-values climate zone 3 (option1)	Minimum R-values provided	
Roof	R 3.5	R 3.59	Complies
Wall	R 1.2	R 1.31	Complies
Floor	R 1.5	R 2.5	Complies
Glazing	R 0.26	R0.26	Complies

Please refer to the attached design navigator tables showing material compliance with R values

R Value of mid floor construction	
150mm thick XLAM	1.22
R 2.2 Pink Batts	2.2
Armstrong Eris Suspended Ceiling	0.17
Total R Value achieved:	3.59

Name: Floortype 1 — 2.50 m²K/W

Type: Floor: Slab floor

Slab floor

internal surface 0.09

Flooring : 50-100mm Concrete Topping Screed

R-value: 0.04

Slab Insulation

Slab floor area [m²]: 140

Perimeter length [m]: 51.8

External wall thickness [mm]: 800

Soil conductivity [W/m °C] 1.2

Underslab insulation: none — Insulation :

Piles Footings: Number: — Penetration Diameter:

Slab edge insulation: none — Insulation :

Name: Walltype 1 — 1.31 m²K/W

Type: Wall: Solid wall (concrete, masonry or other) without vented cavity, with internal insulation

Solid wall (concrete, masonry or other) without vented cavity, with internal insulation

external surface 0.03

Cladding : None (facing outside air)

R-value: 0.00

Solid Masonry : Structural Concrete 150mm

R-value: 0.09

Strapping : Timber batten, 40mm deep, 45mm wide @ 600mm centers

Strapping Area: 11.0% — *Cavity Area: 89.0%*

Thermal Break : none — 40mm Goldfoam, 30kg/m³ 1.44

R-value: 0.00 — still Airgap: none

Strapping : — *R-value: 0.00*

R-value: 0.34

Wall Lining : Gypsum plasterboard 10mm

R-value: 0.04

internal surface 0.09

Thermal Design

Thermal Resistance of CLT

NZS 4214 Table E provides thermal conductivities of materials and thermal resistances (R-values) calculated according to thickness. CLT has the same thermal performance as solid pine. The conductivity (U-Value) of Radiata Pine is 0.120 W/m2K at 12% moisture content which is the expected condition of CLT in use.

Thermal Resistance R-values (thickness in metres divided by conductivity) for XLam CLT panels are calculated as:

60mm CLT:	R 0.50
75mm CLT:	R 0.625
90mm CLT:	R 0.75
105mm CLT:	R 0.875
145mm CLT:	R 1.22
175mm CLT:	R 1.46

Approved Building Consent Documents
BC0037/16
Ashburton District Council

THOMPSON CONSTRUCTION & ENGINEERING

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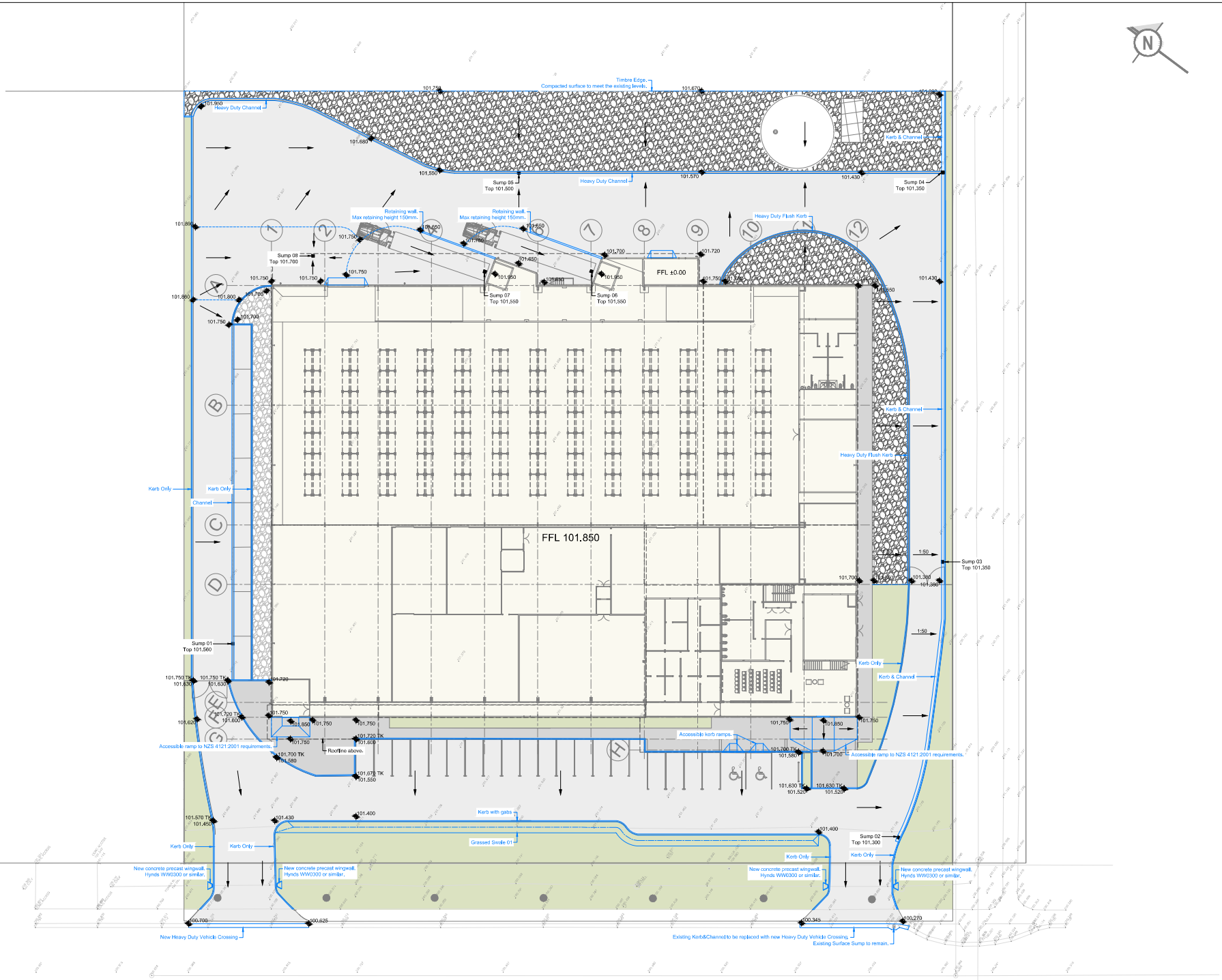
PROJECT

Arch

NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

Rev#	Amendments	Date

SCALE	1 : 100 @ A2	JOB #	12412
DRAWN BY	A. Cloake	DATE	23/01/16
APPROVED BY		REV	
H1 Compliance		A1400	
Please note: All dimensions to be verified on site		Paper size: A2	



Issue	Date	Description
3	25/01/16	Initial Consent
2	25/01/16	For Coordination
1	22/12/15	For Coordination

TM CONSULTANTS
TMCO.co.nz CONSULTING ENGINEERS

CIVIL & HYDRAULIC SERVICES

Job Title

Infant Formula Blending Plant
9 Ashford Avenue
Ashburton

Drawing Name
Civil Services Site Plan

Engineered by : **Lubos Smrcka** Date : **12/2015**
Drawn by : **Lubos Smrcka** Date : **12/2015**

Drawing Scale 1:250@A1 / 1:500@A3

Sheet No: **C1.0** Job No: **150844** Issue: **3**

Robert Banks

RECEIVED
27 JUL 2016
BY: _____

From: Annelies Cloake <design@thompsonltd.co.nz>
Sent: Wednesday, 27 July 2016 13:03
To: Robert Banks
Cc: Renea Stevenson; Willie Stone
Subject: FW: NZ Dairy Warehouse

Approved Building Consents Documents

0037/16

Ashburton District Council

Good afternoon Robert

BC BC0429/16 9 Ashford Avenue, Ashburton

As requested from your on-site inspection this morning, please see below e-mail confirming Andrew Chapman is happy the slab under the mezzanine area has been reduced to 100mm thick. Trust this satisfies your request.

Thank you

Kind Regards
Annelies Cloake

Variation
Robert Banks
Building Official
Ashburton District Council

THOMPSON
CONSTRUCTION - ENGINEERING - PRECAST

Thompson Engineering 2002 Ltd

From: Andrew Chapman [mailto:Andrew@chapmanengineers.co.nz]
Sent: Wednesday, 27 July 2016 1:00 p.m.
To: Annelies Cloake <design@thompsonltd.co.nz>
Subject: RE: NZ Dairy Warehouse

Annelies,

As discussed, the 150 mm floor slab beneath the mezzanine floor (as indicated below) can be reduced to 100 mm. The reinforcing shall remain as detailed, and all other details to remain as is.

I trust this email is sufficient. If you have any questions or comments, please call or email.

Regards,

Andrew Chapman | BE Civil (Hons), MIPENZ, CPEng, IntPE(NZ)
Director | **Chapman Consulting Engineers Ltd**

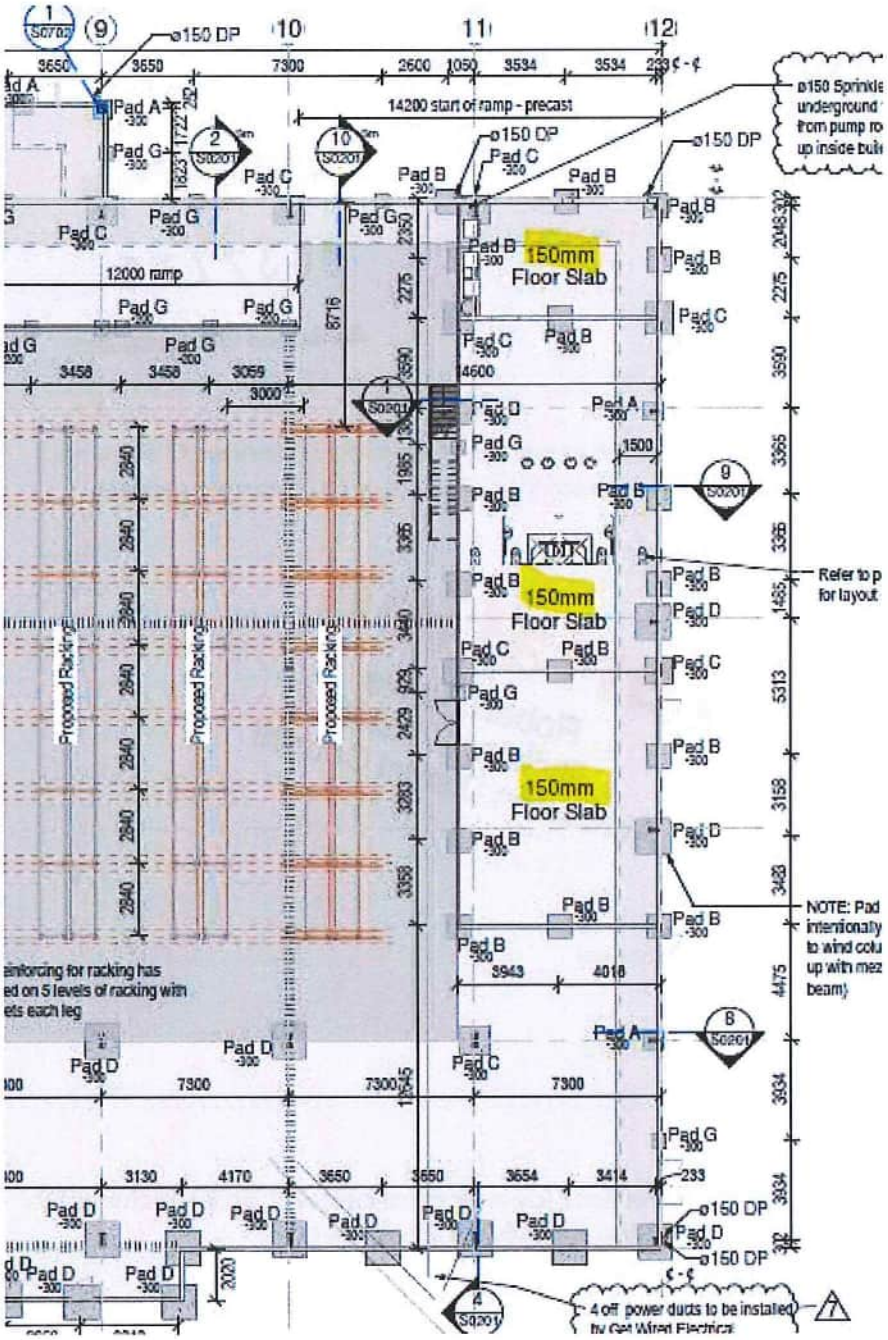
Phone: 03 683 9005 | Address: 9a Meadows Road, Washdyke, Timaru | Post: PO Box 2194, Washdyke, Timaru 7941

From: Annelies Cloake [mailto:design@thompsonltd.co.nz]
Sent: Wednesday, 27 July 2016 12:57 p.m.
To: Andrew Chapman <Andrew@chapmanengineers.co.nz>
Subject: NZ Dairy Warehouse

Hi Andrew

As per our initial discussion a few weeks ago, would you mind confirming to this e-mail that you were happy to reduce this slab to 100mm thick?

As soon as possible would be appreciated as this has come back as a request from the building inspector.



Thank you ☺

Kind Regards
Annelies Cloake

THOMPSON
CONSTRUCTION - ENGINEERING - PRECAST

Thompson Engineering 2002 Ltd
PO Box 2081
Washdyke
Timaru
0800 688716 (ex 204)

Amended Building Consent

Application Form

(Only complete items that are applicable to your project)

BAM 002 - A
Version: 8
Updated: Nov 14
Review: Nov 15

Please return this form to: info@adc.govt.nz or Ashburton District Council, PO Box 94, Ashburton 7740

Application

I request that you issue an amendment to a Building Consent already issued for the building work described in this application.

Original Building Consent Number: BC0037/16

Building Information

Building Name (if any): NZ Dairy Collaborative Infant Formula Plant		
Street Address (or Rapid Number): 9 Ashford Avenue Ashburton District		
Lot No: 17	DP No: 427688	
Number of Levels: 2	Level/Unit Number: N/a	
Legal Description: Lot 17 DP427688	Valuation Roll Number: 2443034858	
Approx. year building first construction? 2016		
Total Floor Area (all floors)	Existing(m2): 5447	Add(m2): 50m²

The Project

Description of amended work:
New Steel grating platform, with service stairs to hold Air Handling Units for processing plant

Estimated value of amended work (including GST): $90000

In addition to, or reduction from, what was stated with the original application:

Addition ✔ Reduction ☐ No Change ☐

Associated Resource Consents *(Please provide project reference numbers)*:

Owner Information

Owner Name: NZ Dairy Collaborative Group	
Contact Person *(if owner is not an individual)*: Tim Ross, Architype (on behalf of Solomon Ling)	
Mailing / Billing Address: 7 Bath Street, Dunedin 9016	
Street Address / Registered Office:	
Daytime Phone Number: 03 552 0621	After Hours Number:
Email: tim@architype.co.nz	Mobile Number: 021 069 2404

Agent Information

Note: The Agent will be the first point of contact for communication with the Council / Building Consent Authority regarding this application / building work and will receive all correspondence including all invoices.

Agent Name: Thompson Construction and Engineering	
Mailing / Billing Address: PO Box 2081, Washdyke	
Street Address / Registered Office: 9b Meadows Road, Washdyke, Timaru	
Daytime Phone Number: 03 688 7164	After Hours Number:
Email: design@thompsonltd.co.nz	Mobile Number:

Key Personnel / Licensed Building Practitioners Details

Builder Thompson Construction and Engineering	
Name of Builder: Thompson Construction and Engineering	
Registration Number: N/A	
Mailing Address: PO Box 2081, Washdyke	
Email: design@thompsonltd.co.nz	Daytime Phone Number: 03 688 7164
Craftsman Plumber N/a	
Name of Craftsman Plumber:	
Registration Number:	
Mailing Address:	
Email:	Daytime Phone Number:
Registered Drainlayer N/A	
Name of Registered Drainlayer:	
Registration Number:	
Mailing Address:	
Email:	Daytime Phone Number:
Craftsman Gasfitter N/A	
Name of Craftsman Gasfitter:	
Registration Number:	
Mailing Address:	
Email:	Daytime Phone Number:

Designer Chapman Consulting Engineers	
Name of Designer: Andrew Chapman	
Registration Number: 9b Meadows Road Washdyke	
Mailing Address: 9b Meadows Road Washdyke	
Email: andrew@chapmanengineers.co.nz	Daytime Phone Number: 036839005
Engineer Chapman Consulting Engineers	
Name of Engineer: Andrew Chapman	
Registration Number: CPEng 1006515	
Mailing Address: 9b Meadows Road Washdyke	
Email: andrew@chapmanengineers.co.nz	Daytime Phone Number: 03 6839005

Other

Has the engineer provided a Producer Statement – Design?	Yes ✔	No
Has the engineer been engaged to carry out site inspections on the job? *(If yes, this must be specified on the Producer Statement)*	Yes	No ✔

Notes by the Applicant

(Other notes or comments which you as the applicant may wish to add)

Required Attachments

Tick the documents you have attached with this application.

- Certificate of Title (less than 6 months old) *(Evidence of ownership)*
- Sale and Purchase Agreement *(Evidence of ownership)* Has Not Changed
- Lease *(Evidence of ownership)*
- Current Rates Demand *(Evidence of ownership)*
- Project Information Memorandum
- ✔ 2 copies of the original consented plans that are to be amended, showing all construction details, with amendments highlighted or clouded.
- ✔ Amendment Application Fee $97.00

Method of Payment

Cash		Cheque		Eftpos	
Credit Card		Direct Credit	✔		

Note: For direct credit, please make payment to account number 03-1592-0521970-00 include name of applicant and the Building Consent Number (if known). If you don't know the Building Consent number, please enter letters BC in the reference field. This will enable us to match your payment and prevent delays in processing your request.

Signature

Note: If acting "for and behalf", please read the following declaration before signing: "I hereby declare that I am authorised to act as Agent of the Owner."

Signature:

Date: 30/03/2017

Please print your name: Annelies Cloake

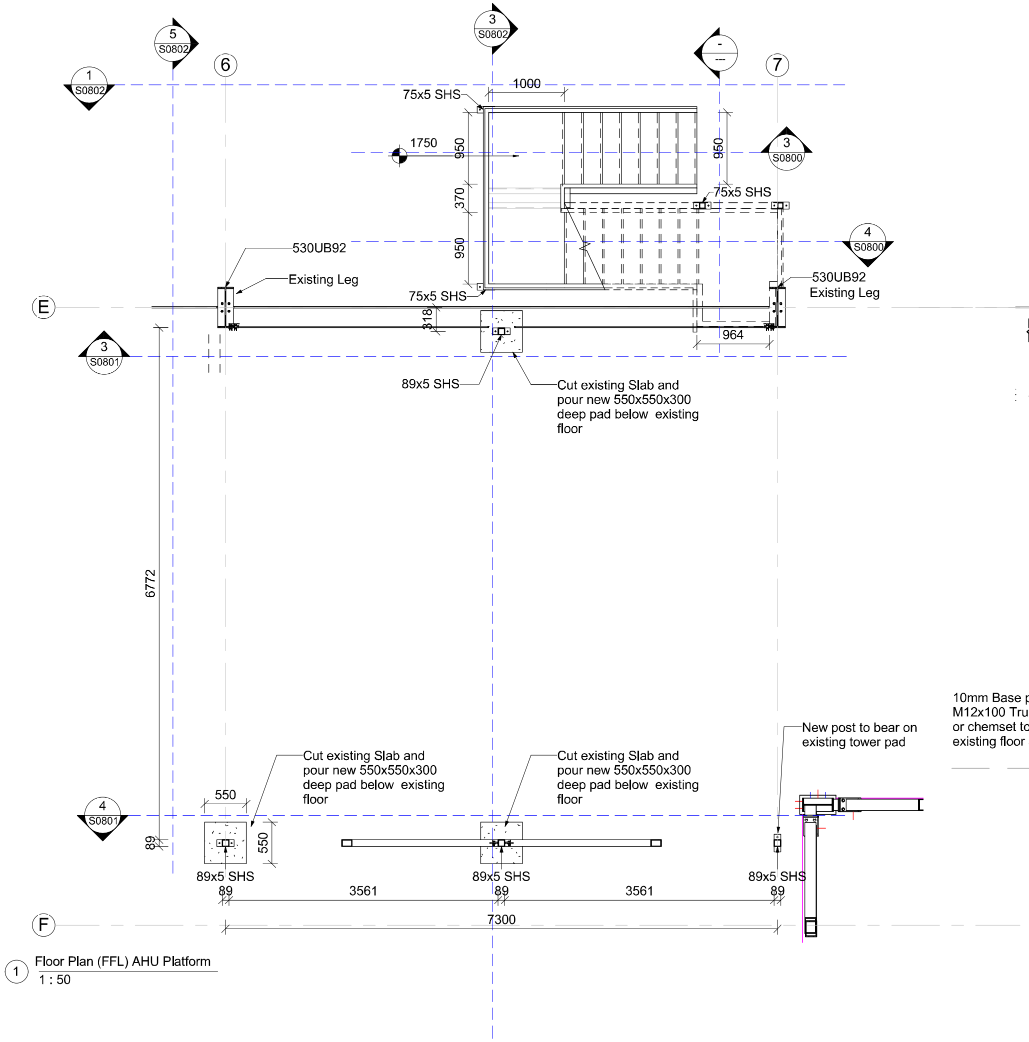
Owner ☐ **Agent** ✔

Privacy Information: The information you have provided on this form is required so that your building consent application can be processed under the Building Act 2004. The Council collates statistics relating to issued building consents and has a statutory obligation to regularly forward these to Statistics NZ. The Council stores the information on a public register which must be supplied (as previously determined by the Ombudsman) to whosoever requests the information. Under the Privacy Act 1993 you have the right to see and correct personal information the Council holds about you.

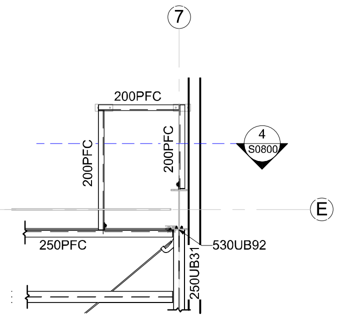
Office Use Only		
Application complete?	Yes ☐	No ☐
Application fee received?	Yes ☐	No ☐
Receipt Number:		

Notes

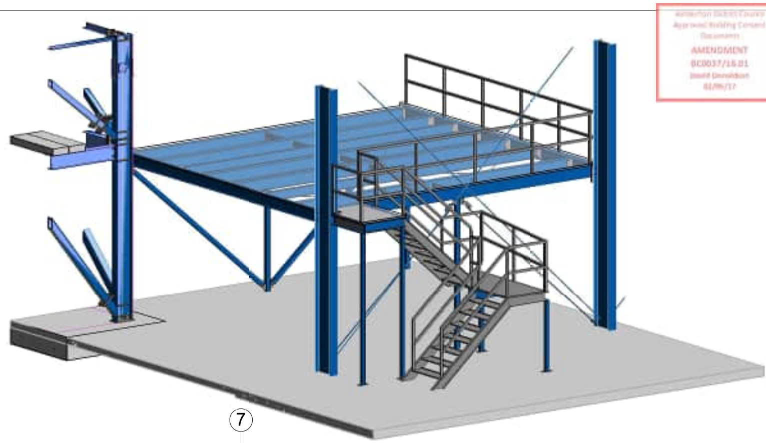
1. This does not apply to building consents that already have a Code of Compliance Certificate issued.
2. This application is for construction changes to issued building consents. It is not intended to be used where the scope of work is extended.
3. Processing fees (plus any additional Building or Building Research Levies are to be paid before any work covered by the amendment may proceed.

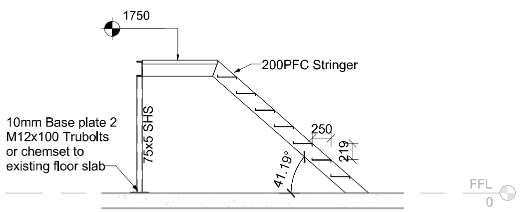


1 Floor Plan (FFL) AHU Platform
1 : 50

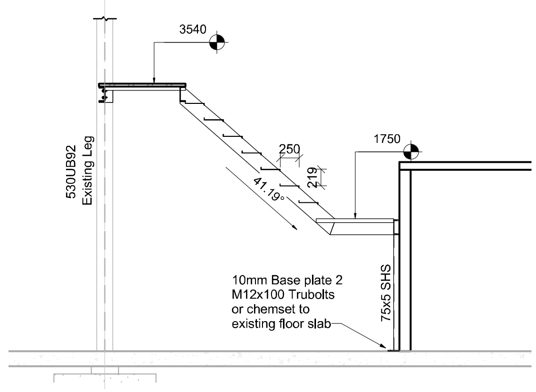


2 AHU Platform Stair landing
1 : 50





3 AHU lower stair
1 : 50



4 AHU Upper stair
1 : 50

Notes added following phone call to Thompson 01.05.2017

1 - Sprinkler system may require alteration as a result of this change for compliance

2 - Stair is required to be served with emergency lighting.

David Donaldson, Consent Officer, ADC

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PROJECT

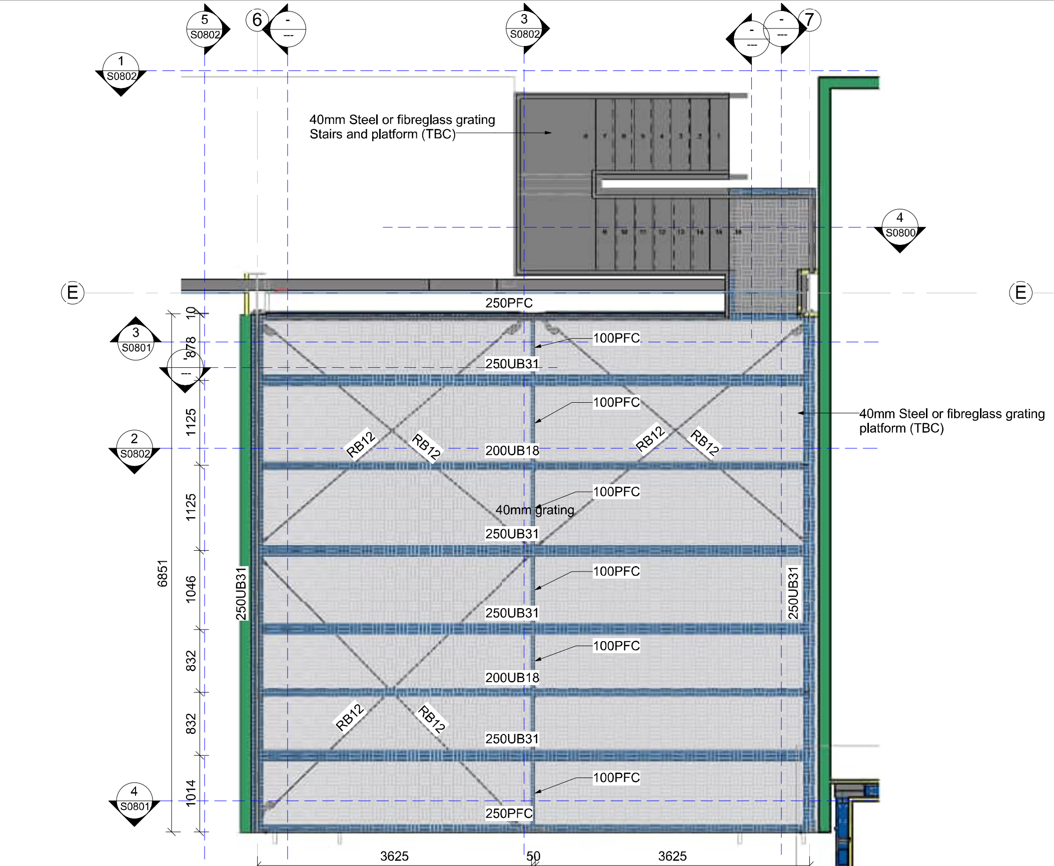
NZ Dairy Collaborative Group

Tower Extension

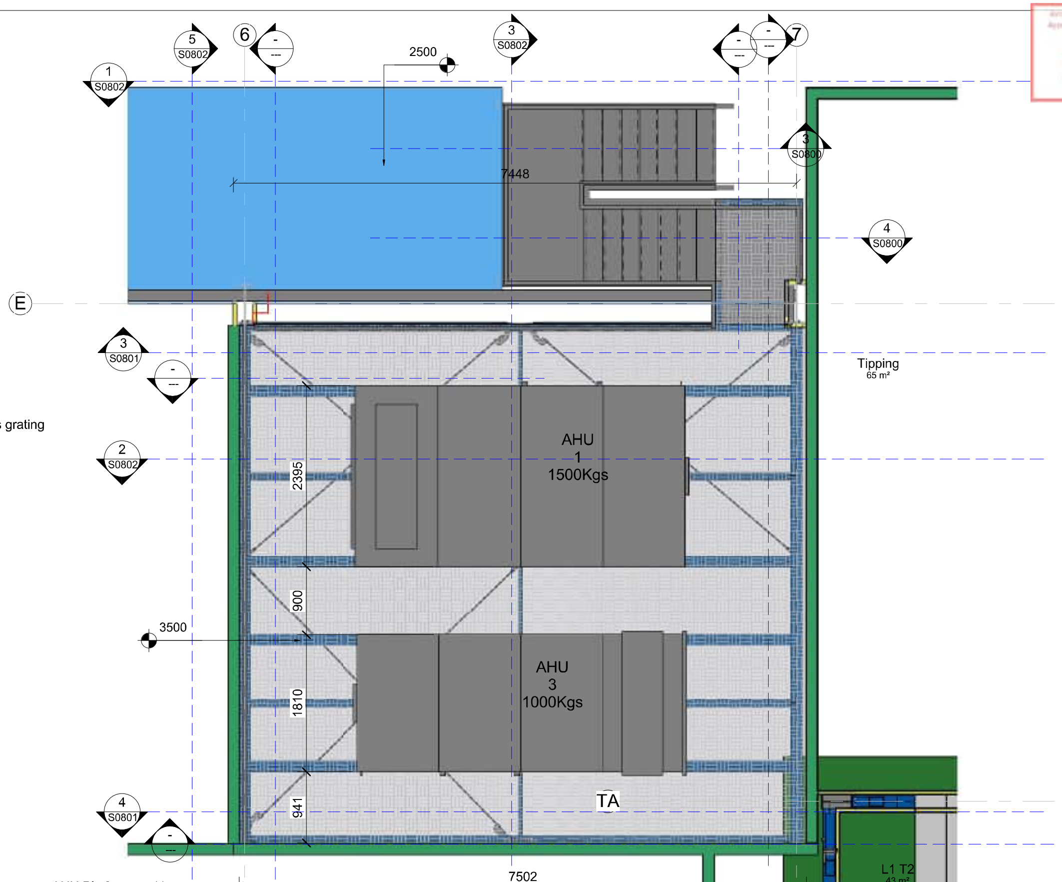
9 Ashford Ave, Ashburton

Rev#	Amendments	Date
5	AHU Platform and Stairs	20/03/16

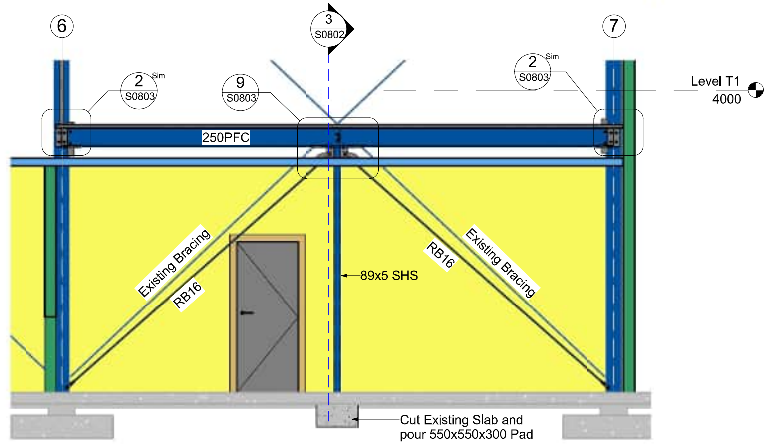
SCALE	1 : 50 @ A2	JOB #	12630
DRAWN BY	C. White	DATE	27/10/16
CHECKED BY	A. Chapman	REV	5
AHU Floor plan and stairs		S0800	
Please note: All dimensions to be verified on site		Paper size: A2	



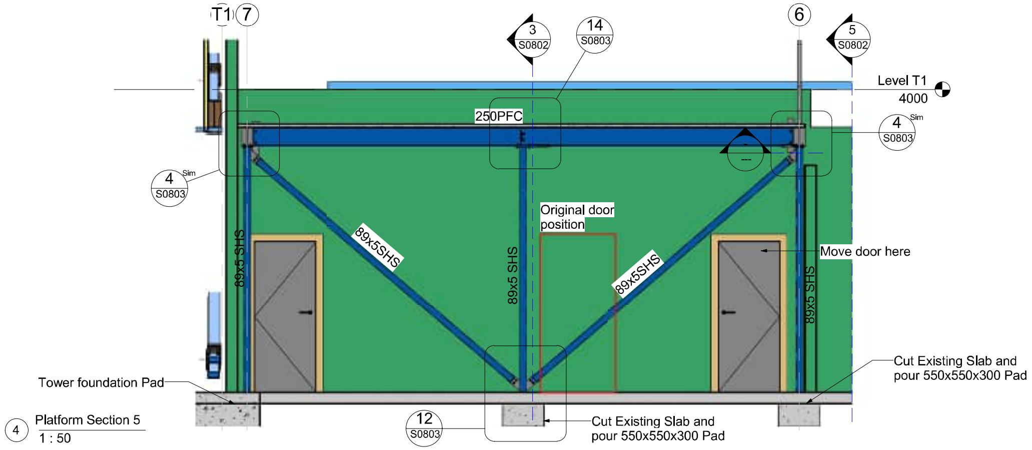
1 AHU Platform Framing layout
1 : 50



2 AHU Platform positions
1 : 50



3 Platform Section 6
1 : 50



4 Platform Section 5
1 : 50

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design@thompsonengineering.co.nz

PROJECT

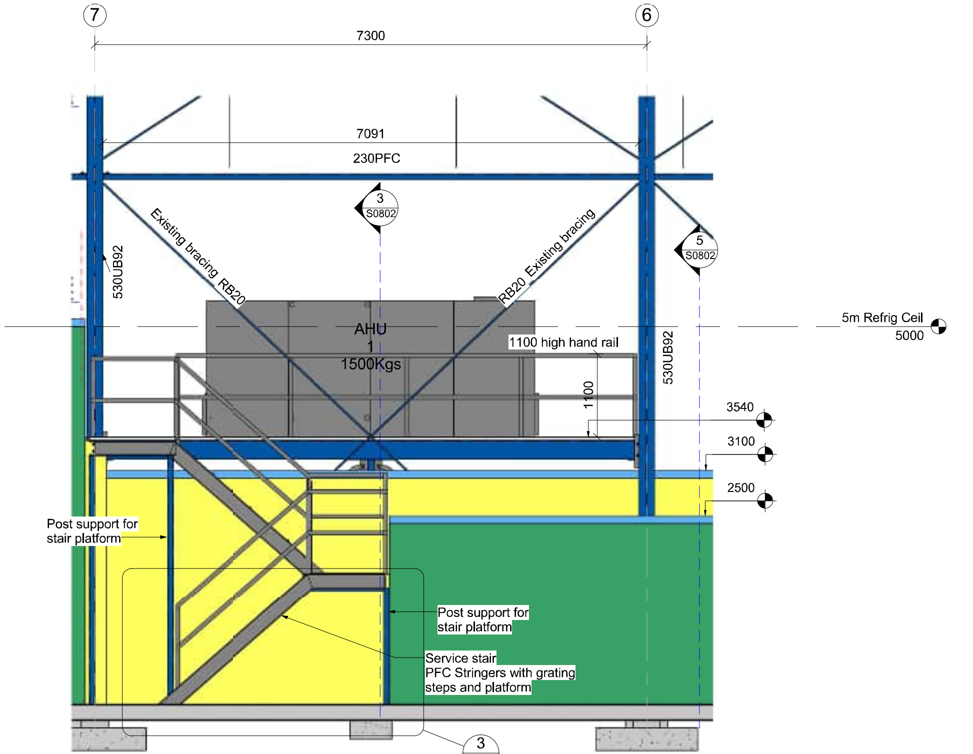
NZ Dairy Collaborative Group

Tower Extension

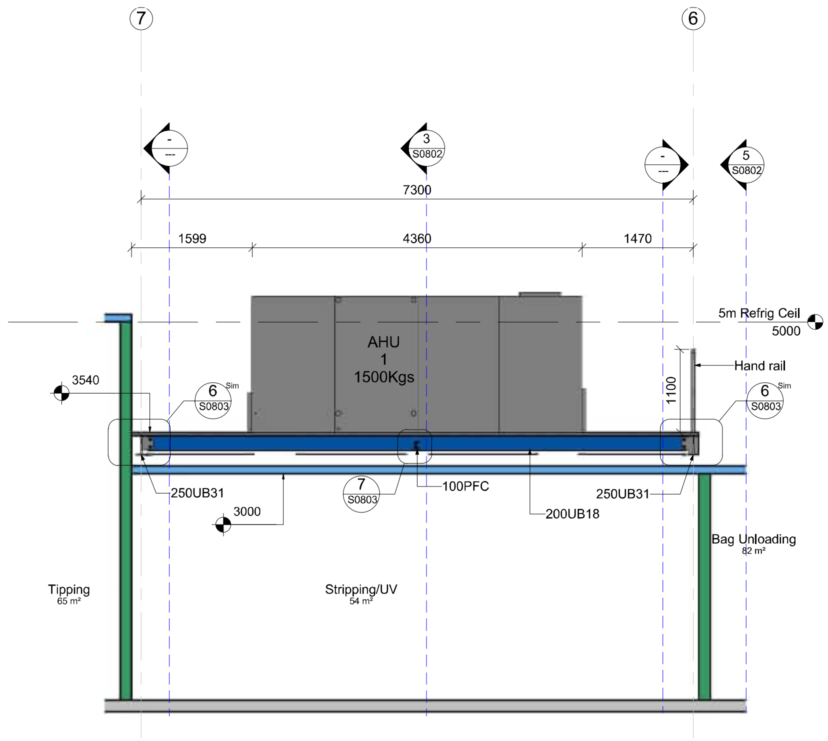
9 Ashford Ave, Ashburton

Rev#	Amendments	Date
5	AHU Platform and Stairs	20/03/16

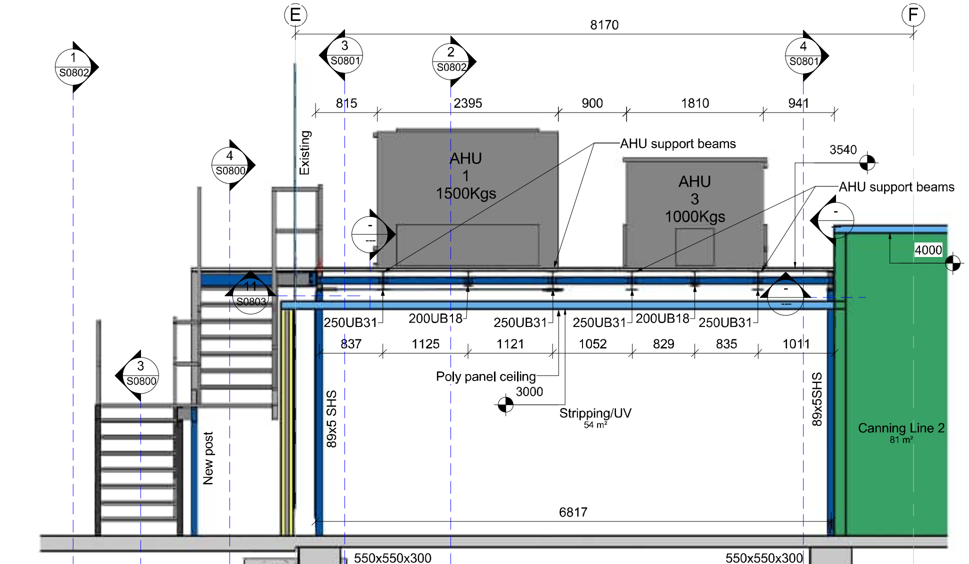
SCALE	1 : 50 @ A2	JOB #	12630
DRAWN BY	C. White	DATE	27/10/16
CHECKED BY	A. Chapman	REV	5
AHU Platform		S0801	
Please note: All dimensions to be verified on site		Paper size: A2	



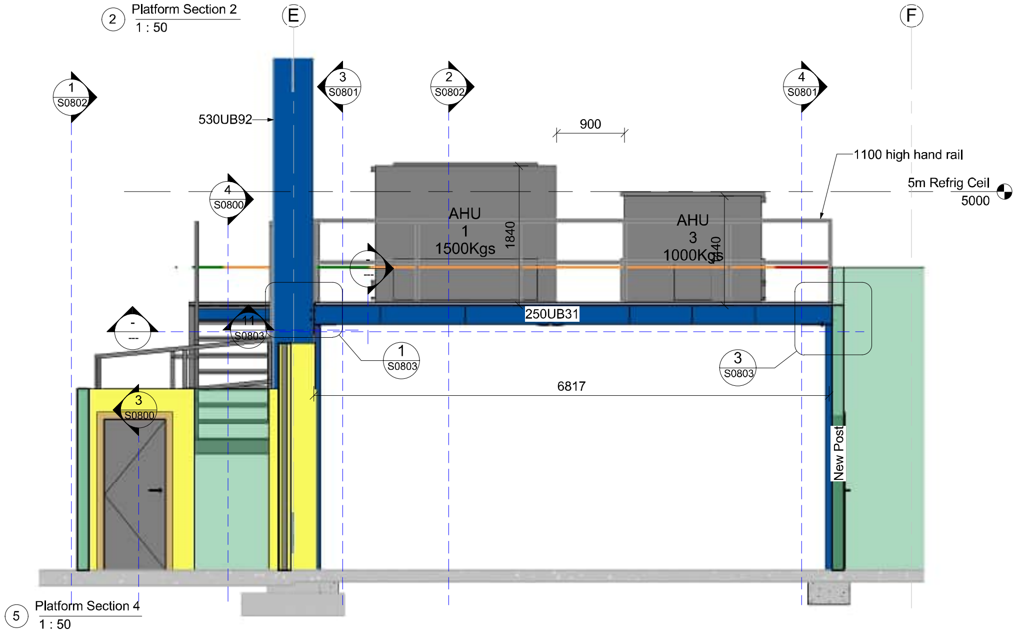
1 Platform Section 1
1 : 50



2 Platform Section 2
1 : 50



3 Platform Section 3
1 : 50



5 Platform Section 4
1 : 50

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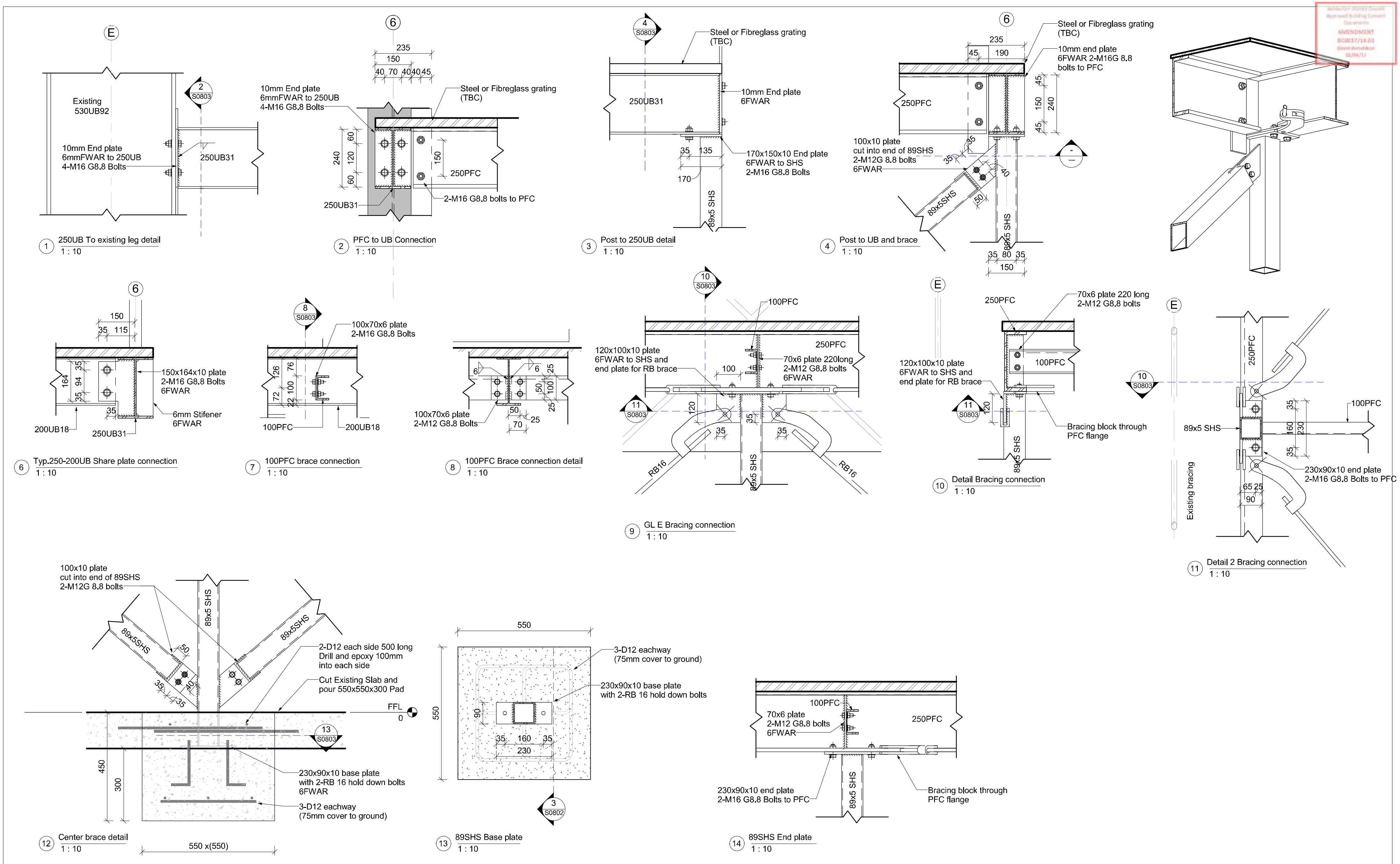
PROJECT

NZ Dairy Collaborative Group
Tower Extension
9 Ashford Ave, Ashburton

Rev#	Amendments	Date
5	AHU Platform and Stairs	20/03/16

SCALE	1 : 50 @ A2	JOB #	12630
DRAWN BY	C. White	DATE	27/10/16
CHECKED BY	A. Chapman	REV	5
AHU Platform Sections		S0802	
Please note: All dimensions to be verified on site		Paper size: A2	



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PROJECT

NZ Dairy Collaborative Group

Tower Extension

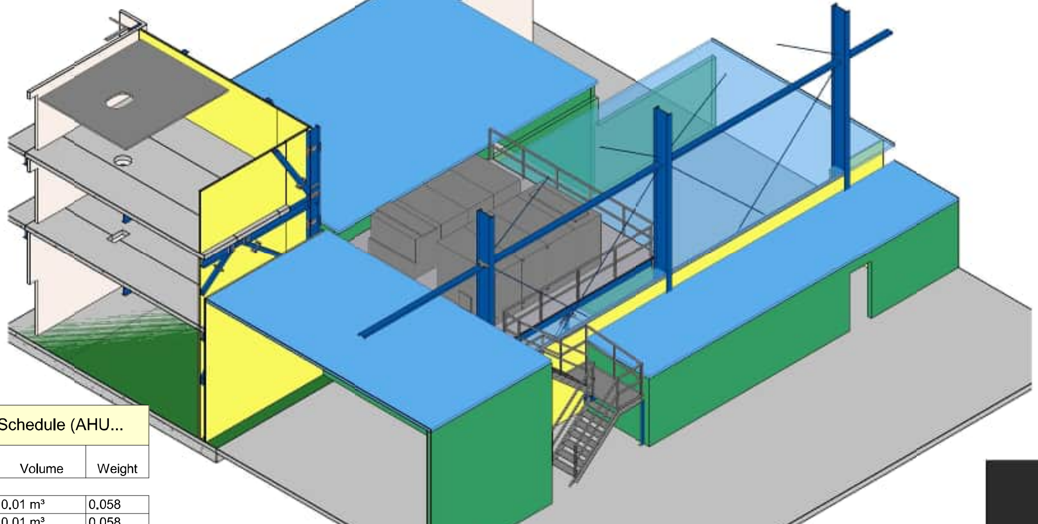
9 Ashford Ave, Ashburton

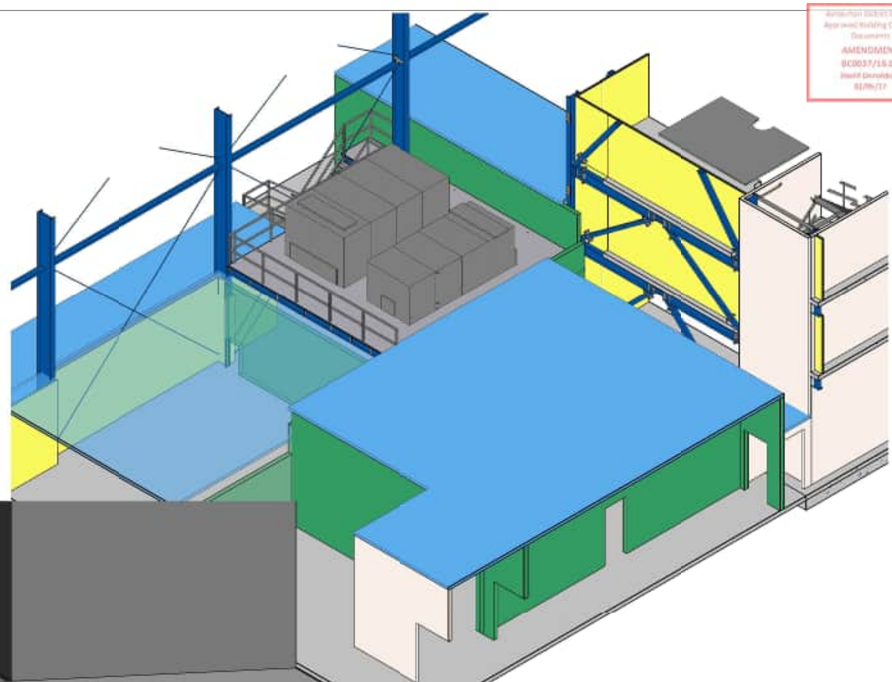
Rev#	Amendments	Date
5	AHU Platform and Stairs	20/03/16

SCALE	1 : 10 @ A2	JOB #	12630
DRAWN BY	C. White	DATE	27/10/16
CHECKED BY	A. Chapman	REV	5
AHU Platform connection details			S0803

Please note: All dimensions to be verified on site

Paper size: A2





Structural Framing Schedule (AHU...

Type	Cut Length	Volume	Weight
89x5SHS			
89x5SHS	4427	0.01 m³	0.058
89x5SHS	4427	0.01 m³	0.058
89x5SHS: 2	8853		0.117
100PFC			
100PFC	845	0.00 m³	0.007
100PFC	1100	0.00 m³	0.009
100PFC	1100	0.00 m³	0.009
100PFC	1022	0.00 m³	0.008
100PFC	974	0.00 m³	0.008
100PFC	808	0.00 m³	0.007
100PFC	808	0.00 m³	0.007
100PFC: 7	6658		0.055
200PFC			
200PFC	1575	0.00 m³	0.036
200PFC	1068	0.00 m³	0.024
200PFC	1107	0.00 m³	0.025
200PFC	1100	0.00 m³	0.025
200PFC	1100	0.00 m³	0.025
200PFC: 5	5950		0.136
200UB18			
200UB18	7134	0.02 m³	0.126
200UB18	7154	0.02 m³	0.127
200UB18: 2	14288		0.253
250PFC			
250PFC	7134	0.03 m³	0.255
250PFC	7134	0.03 m³	0.254
250PFC: 2	14268		0.509
250UB31			
250UB31	6841	0.03 m³	0.216
250UB31	6863	0.03 m³	0.216
250UB31	7154	0.03 m³	0.226
250UB31	7154	0.03 m³	0.226
250UB31	7154	0.03 m³	0.226
250UB31	7134	0.03 m³	0.225
250UB31: 6	42300		1.334
RB12			
RB12	4339	0.00 m³	0.005
RB12	4499	0.00 m³	0.006
RB12	4497	0.00 m³	0.006
RB12	4235	0.00 m³	0.005
RB12	4744	0.00 m³	0.006
RB12	4785	0.00 m³	0.006
RB12: 6	27099		0.033
RB16			
RB16	4500	0.00 m³	0.009
RB16	4500	0.00 m³	0.009
RB16: 2	9000		0.018
Grand total: 32	128416		2.456

Structural Column Schedule (AHU...

Type	Length	Volume	Weight
75x5 SHS			
75x5 SHS	1540	0.00 m³	0.017
75x5 SHS	1540	0.00 m³	0.017
75x5 SHS	3300	0.00 m³	0.037
75x5 SHS	3300	0.00 m³	0.037
75x5 SHS: 4	9680		0.108
89x5 SHS			
89x5 SHS	3388	0.01 m³	0.046
89x5 SHS	3240	0.01 m³	0.044
89x5 SHS	3390	0.01 m³	0.046
89x5 SHS	3390	0.01 m³	0.046
89x5 SHS: 4	13408		0.180
Grand total: 8	23088		0.289

(AHU)Structural Framing Material Takeoff

Type	Comments	Material: Area	Cut Length
89x5SHS	AHU Steel	2.88 m²	4427
89x5SHS	AHU Steel	2.89 m²	4427
100PFC	AHU Steel	0.33 m²	845
100PFC	AHU Steel	0.43 m²	1100
100PFC	AHU Steel	0.43 m²	1100
100PFC	AHU Steel	0.40 m²	1022
100PFC	AHU Steel	0.38 m²	974
100PFC	AHU Steel	0.31 m²	808
100PFC	AHU Steel	0.31 m²	808
200PFC	AHU Steel	1.07 m²	1575
200PFC	AHU Steel	0.73 m²	1068
200PFC	AHU Steel	0.76 m²	1107
200PFC	AHU Steel	0.75 m²	1100
200PFC	AHU Steel	0.75 m²	1100
200UB18	AHU Steel	5.46 m²	7134
200UB18	AHU Steel	5.47 m²	7154
250PFC	AHU Steel	5.96 m²	7134
250PFC	AHU Steel	5.96 m²	7134
250UB31	AHU Steel	7.26 m²	6841
250UB31	AHU Steel	7.29 m²	6863
250UB31	AHU Steel	7.59 m²	7154
250UB31	AHU Steel	7.59 m²	7154
250UB31	AHU Steel	7.59 m²	7154
250UB31	AHU Steel	7.57 m²	7134
RB12	AHU Steel	0.19 m²	4339
RB12	AHU Steel	0.20 m²	4499
RB12	AHU Steel	0.20 m²	4497
RB12	AHU Steel	0.19 m²	4235
RB12	AHU Steel	0.21 m²	4744
RB12	AHU Steel	0.21 m²	4785
RB16	AHU Steel	0.25 m²	4500
RB16	AHU Steel	0.25 m²	4500
Grand total: 32		81.86 m²	

(AHU)Structural Column Material Takeoff

Type	Comments	Material: Area	Length
89x5 SHS	AHU Steel	2.16 m²	3388
89x5 SHS	AHU Steel	2.07 m²	3240
89x5 SHS	AHU Steel	2.16 m²	3390
75x5 SHS	AHU Steel	0.81 m²	1540
75x5 SHS	AHU Steel	0.81 m²	1540
75x5 SHS	AHU Steel	1.74 m²	3300
89x5 SHS	AHU Steel	2.16 m²	3390
75x5 SHS	AHU Steel	1.74 m²	3300
Grand total: 8		13.66 m²	

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PROJECT

NZ Dairy Collaborative Group

Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date
5	AHU Platform and Stairs	20/03/16

SCALE	@ A2	JOB #	12630
DRAWN BY	C. White	DATE	27/10/16
CHECKED BY	A. Chapman	REV	5
AHU 3D		S0804	
Please note: All dimensions to be verified on site		Paper size: A2	

Amended Building Consent

Application Form

(Only complete items that are applicable to your project)

BAM 002 - A
Version: 8
Updated: Nov 14
Review: Nov 15

Please return this form to: info@adc.govt.nz or Ashburton District Council, PO Box 94, Ashburton 7740

Application

I request that you issue an amendment to a Building Consent already issued for the building work described in this application.

Original Building Consent Number: BC0037/16

Building Information

Building Name (if any): NZ Dairy Collaborative Infant Formula Plant		
Street Address (or Rapid Number): 9 Ashford Avenue Ashburton District		
Lot No: 17	DP No: 427688	
Number of Levels: 2	Level/Unit Number: N/a	
Legal Description: Lot 17 DP427688	Valuation Roll Number: 2443034858	
Approx. year building first construction? 2016		
Total Floor Area (all floors)	Existing(m2): 5447	Add(m2): N/A

The Project

Description of amended work:
New steel platform for Air Handling Unit (AHU) with Steel grating service platform and a ducting frame clad in long run iron to run the full height of the processing tower.

Estimated value of amended work (including GST): $75000

In addition to, or reduction from, what was stated with the original application:

Addition ✔ Reduction ☐ No Change ☐

Associated Resource Consents *(Please provide project reference numbers)*:

Owner Information

Owner Name: NZ Dairy Collaborative Group	
Contact Person *(if owner is not an individual)*: Tim Ross, Architype (on behalf of Solomon Ling)	
Mailing / Billing Address: 7 Bath Street, Dunedin 9016	
Street Address / Registered Office:	
Daytime Phone Number: 03 552 0621	After Hours Number:
Email: tim@architype.co.nz	Mobile Number: 021 069 2404

Agent Information

Note: The Agent will be the first point of contact for communication with the Council / Building Consent Authority regarding this application / building work and will receive all correspondence including all invoices.

Agent Name: Thompson Construction and Engineering	
Mailing / Billing Address: PO Box 2081, Washdyke	
Street Address / Registered Office: 9b Meadows Road, Washdyke, Timaru	
Daytime Phone Number: 03 688 7164	After Hours Number:
Email: design@thompsonltd.co.nz	Mobile Number:

Key Personnel / Licensed Building Practitioners Details

Builder Thompson Construction and Engineering	
Name of Builder: Thompson Construction and Engineering	
Registration Number: N/A	
Mailing Address: PO Box 2081, Washdyke	
Email: design@thompsonltd.co.nz	Daytime Phone Number: 03 688 7164
Craftsman Plumber N/a	
Name of Craftsman Plumber:	
Registration Number:	
Mailing Address:	
Email:	Daytime Phone Number:
Registered Drainlayer N/A	
Name of Registered Drainlayer:	
Registration Number:	
Mailing Address:	
Email:	Daytime Phone Number:
Craftsman Gasfitter N/A	
Name of Craftsman Gasfitter:	
Registration Number:	
Mailing Address:	
Email:	Daytime Phone Number:

Designer Chapman Consulting Engineers	
Name of Designer: Andrew Chapman	
Registration Number: 9b Meadows Road Washdyke	
Mailing Address: 9b Meadows Road Washdyke	
Email: andrew@chapmanengineers.co.nz	Daytime Phone Number: 036839005
Engineer Chapman Consulting Engineers	
Name of Engineer: Andrew Chapman	
Registration Number: CPEng 1006515	
Mailing Address: 9b Meadows Road Washdyke	
Email: andrew@chapmanengineers.co.nz	Daytime Phone Number: 03 6839005

Other

Has the engineer provided a Producer Statement – Design?	Yes ✔	No
Has the engineer been engaged to carry out site inspections on the job? *(If yes, this must be specified on the Producer Statement)*	Yes	No ✔

Notes by the Applicant

(Other notes or comments which you as the applicant may wish to add)

Required Attachments

Tick the documents you have attached with this application.

- Certificate of Title (less than 6 months old) *(Evidence of ownership)*
- Sale and Purchase Agreement *(Evidence of ownership)* Has Not Changed
- Lease *(Evidence of ownership)*
- Current Rates Demand *(Evidence of ownership)*
- Project Information Memorandum
- ✔ 2 copies of the original consented plans that are to be amended, showing all construction details, with amendments highlighted or clouded.
- ✔ Amendment Application Fee $97.00

Method of Payment

Cash		Cheque		Eftpos	
Credit Card		Direct Credit	✔		

Note: For direct credit, please make payment to account number 03-1592-0521970-00 include name of applicant and the Building Consent Number (if known). If you don't know the Building Consent number, please enter letters BC in the reference field. This will enable us to match your payment and prevent delays in processing your request.

Signature

Note: If acting "for and behalf", please read the following declaration before signing: "I hereby declare that I am authorised to act as Agent of the Owner."

Signature:

Date: 25/05/2017

Please print your name: Annelies Cloake

Owner ☐ **Agent** ✔

Privacy Information: The information you have provided on this form is required so that your building consent application can be processed under the Building Act 2004. The Council collates statistics relating to issued building consents and has a statutory obligation to regularly forward these to Statistics NZ. The Council stores the information on a public register which must be supplied (as previously determined by the Ombudsman) to whosoever requests the information. Under the Privacy Act 1993 you have the right to see and correct personal information the Council holds about you.

Office Use Only		
Application complete?	Yes ☐	No ☐
Application fee received?	Yes ☐	No ☐
Receipt Number:		

Notes

1. This does not apply to building consents that already have a Code of Compliance Certificate issued.
2. This application is for construction changes to issued building consents. It is not intended to be used where the scope of work is extended.
3. Processing fees (plus any additional Building or Building Research Levies are to be paid before any work covered by the amendment may proceed.

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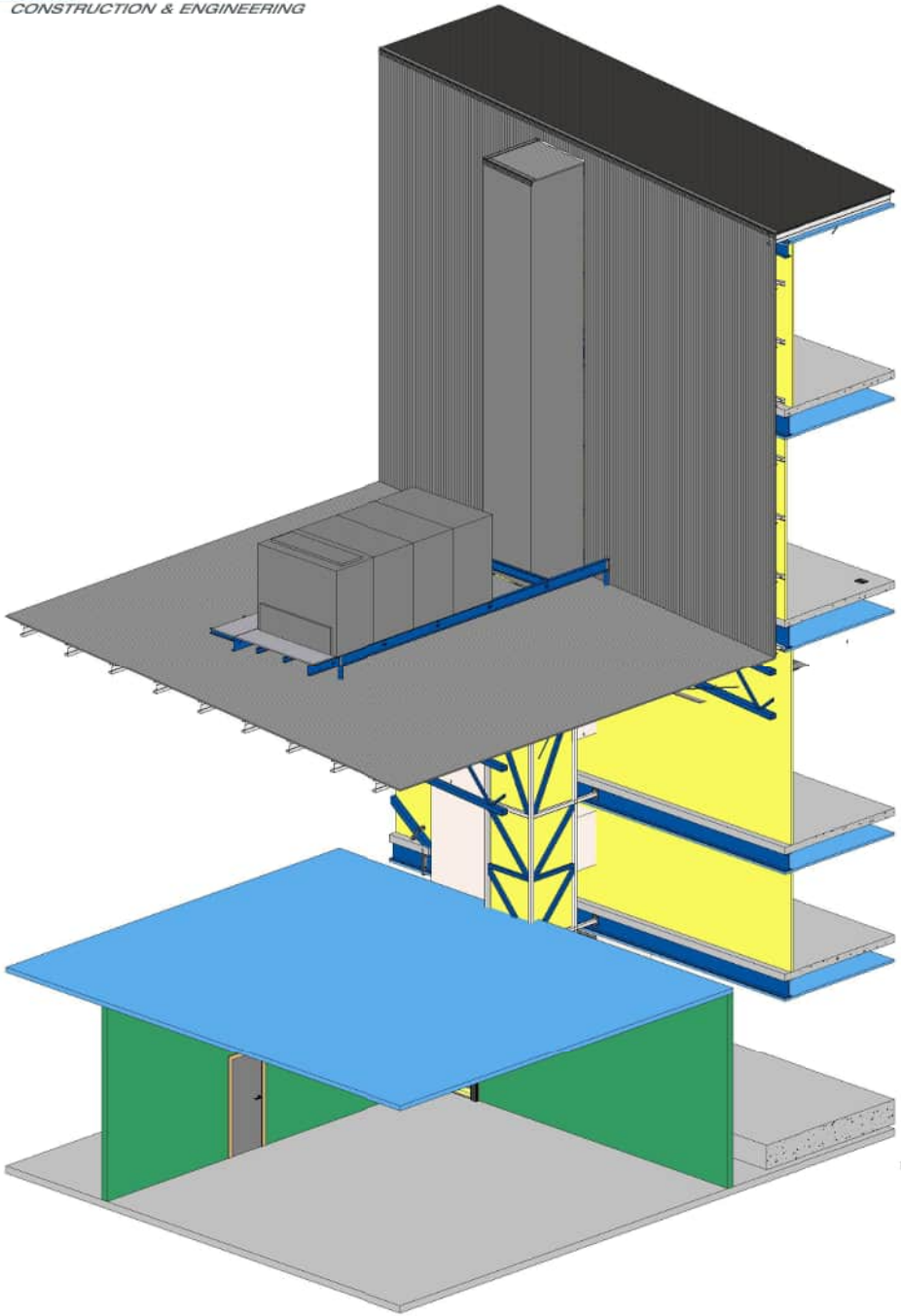
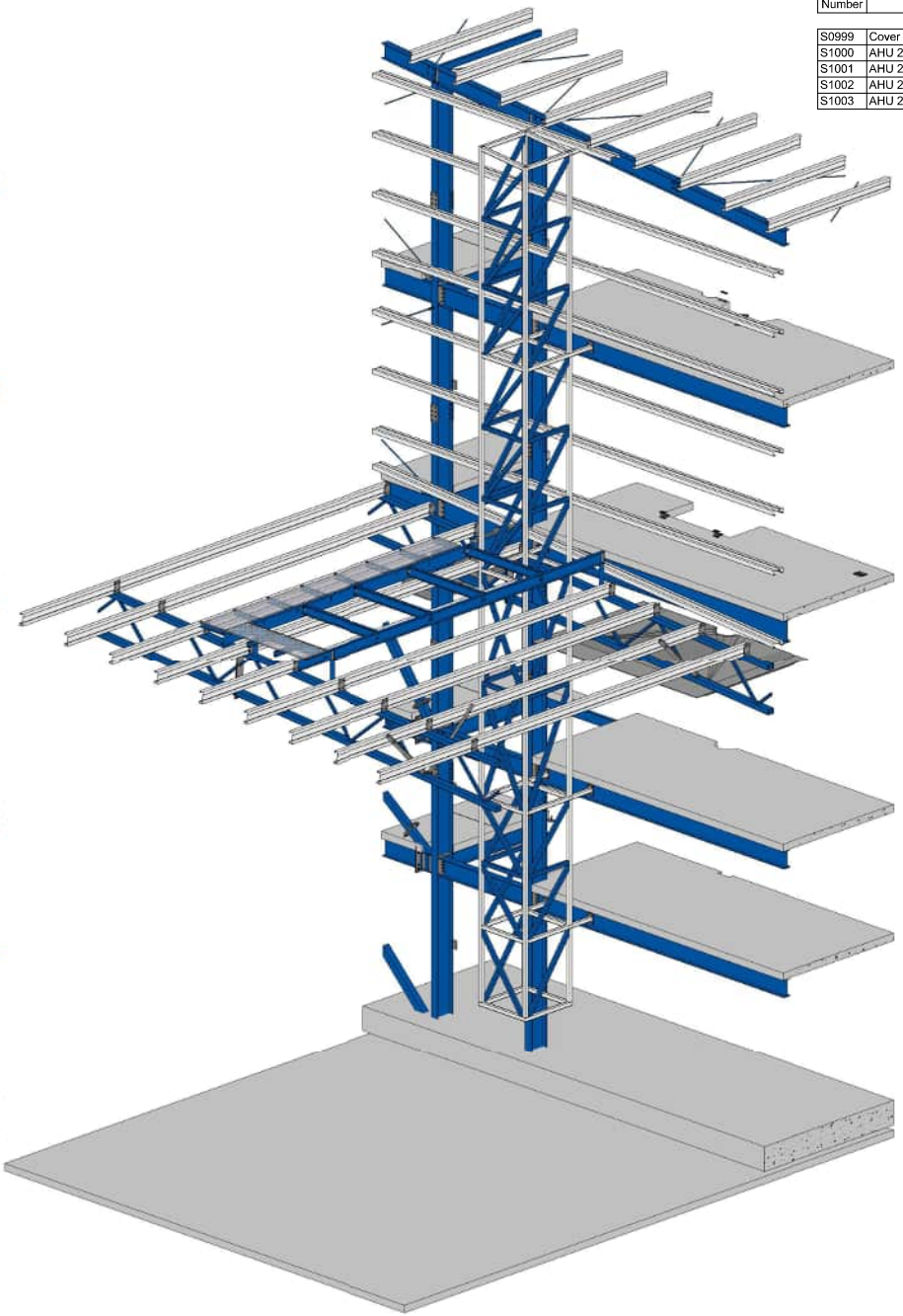
CONSTRUCTION & ENGINEERING

AHU-2 Sheet List

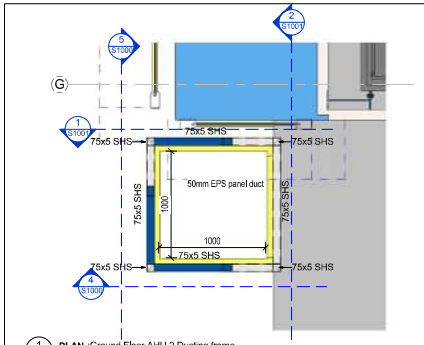
Sheet Number	Sheet Name	Current Revision	Current Revision Date
S0999	Cover	16	23/05/17
S1000	AHU 2 Ducting Frame	16	23/05/17
S1001	AHU 2 Ducting Frame Details	16	23/05/17
S1002	AHU 2 Frame	16	23/05/17
S1003	AHU 2 Frame Details	16	23/05/17



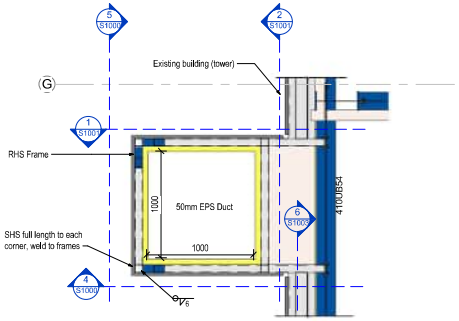


NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

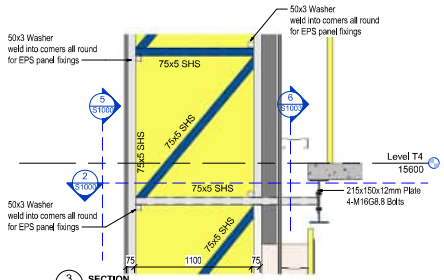
12412
23/05/2017



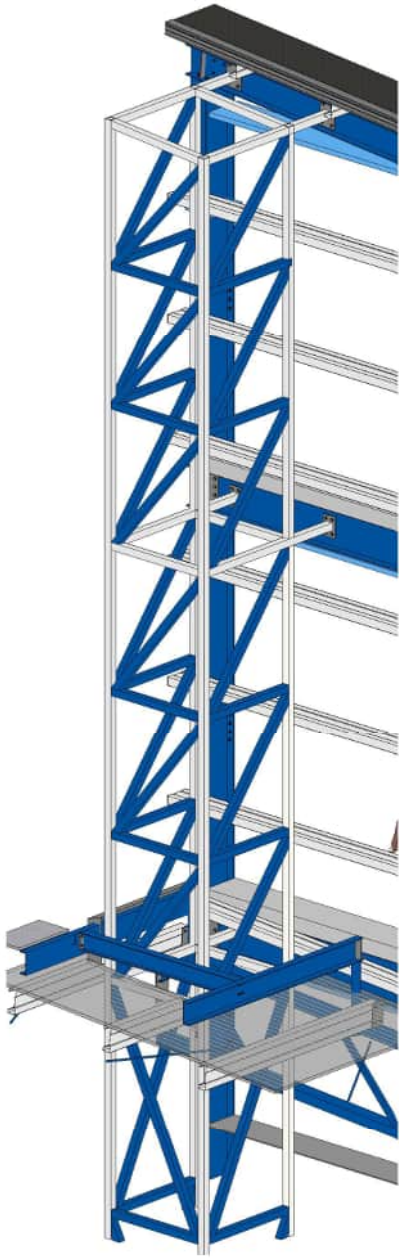
1 A0300 **PLAN** :Ground Floor AHU 2 Ducting frame
1 : 25

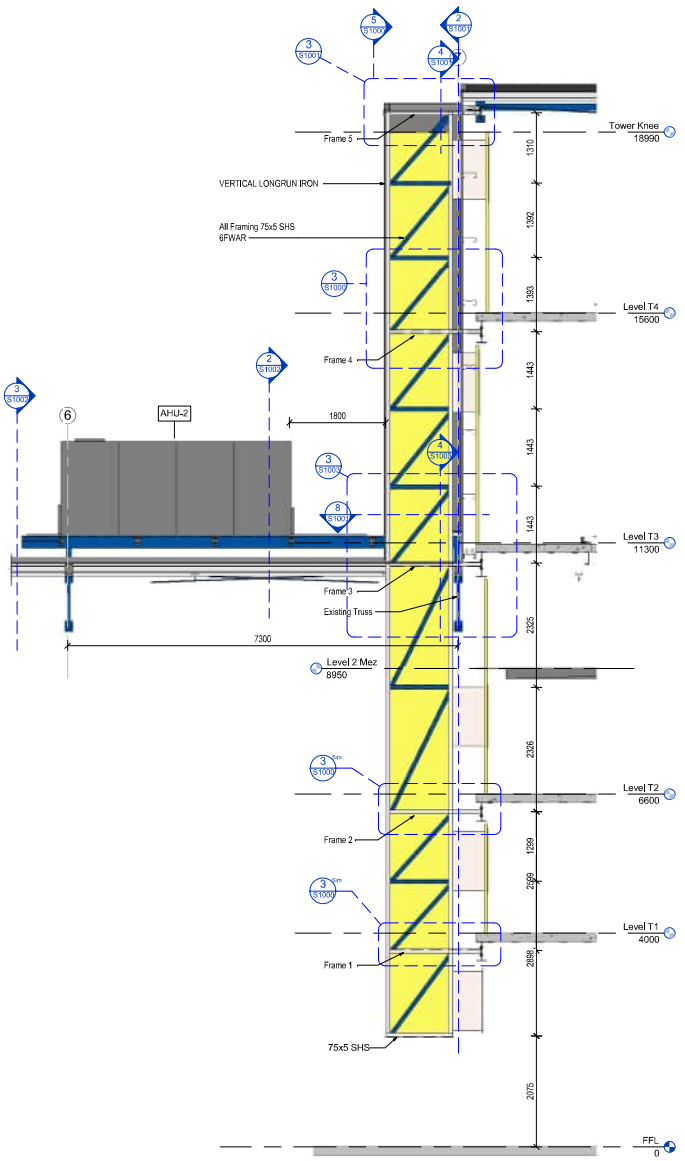


2 S1000 **SECTION** :T4
1 : 25

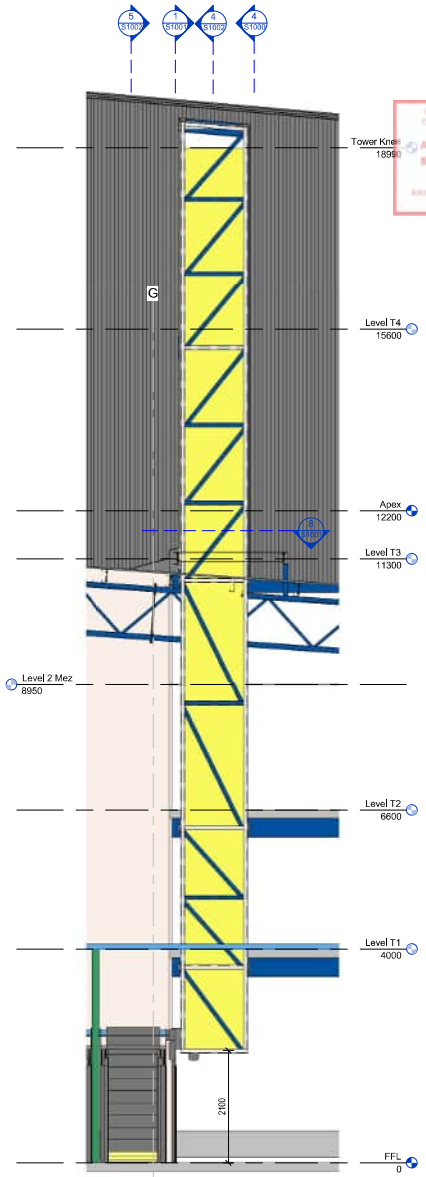


3 S1000 **SECTION**
1 : 25





4 A0300 **SECTION**
1 : 50



5 P2001 **SECTION**
1 : 50

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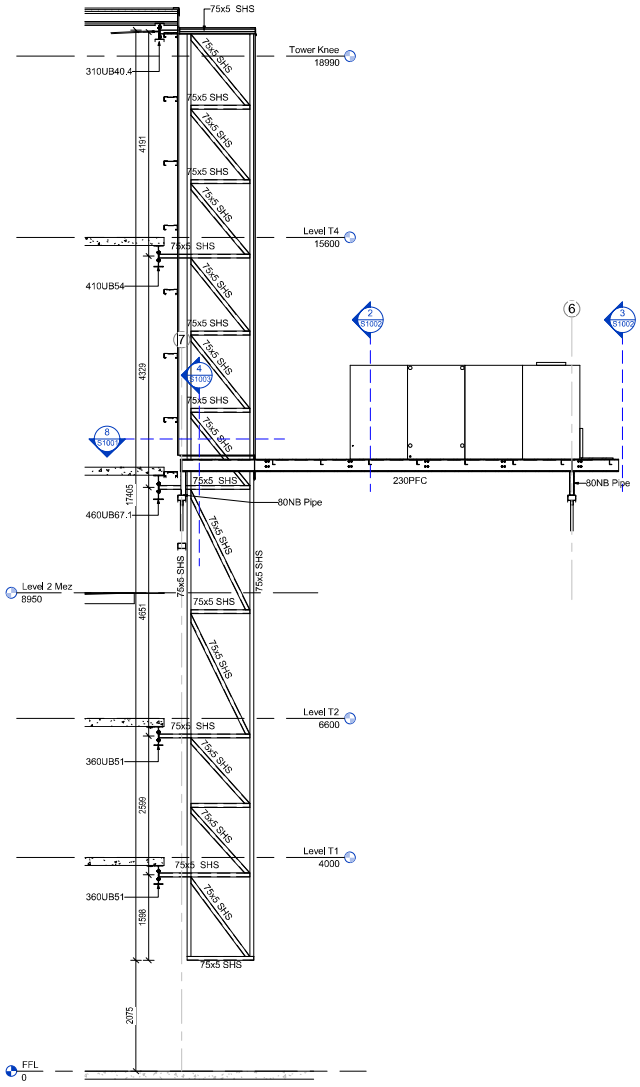
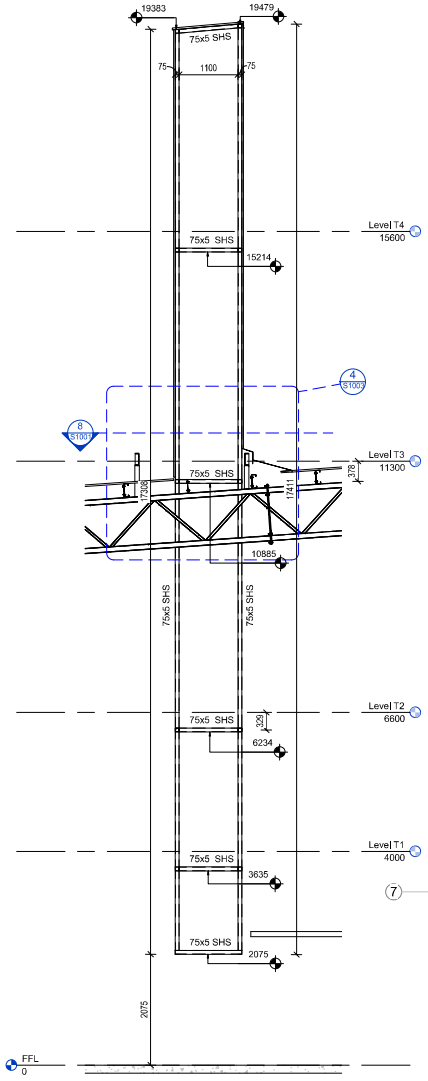
Rev#	Ammendments	Date
16	AHU-2 platform and Ducting	23/05/17

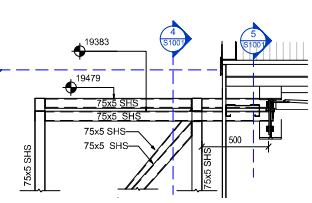
SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	23/05/2017
CHECKED BY	R. Qadeer		16
AHU 2 Ducting Frame			S1000
Please note: All dimensions to be verified on site		Paper size	A1



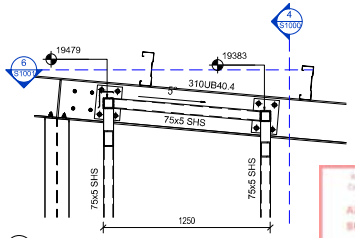
1 Duct fame side elevation
1 : 50



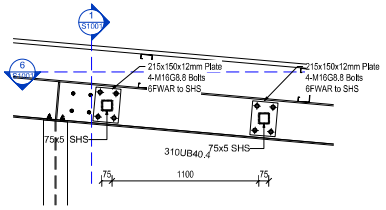
2 Duct frame Back Elevation
1 : 50



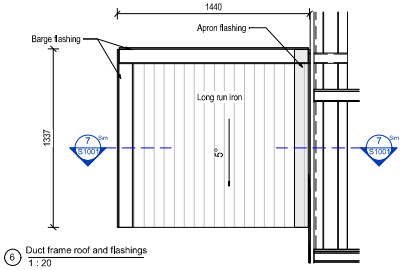
3 SECTION :Top of duct frame
1 : 20



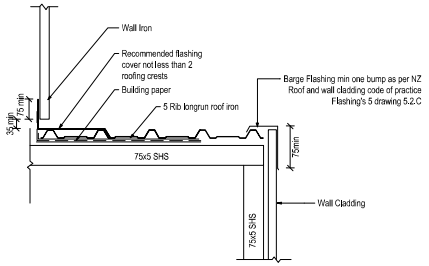
4 DETAIL :Top frame
1 : 20



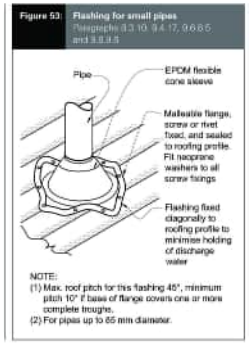
5 DETAIL :Top of duct frame connection
1 : 20

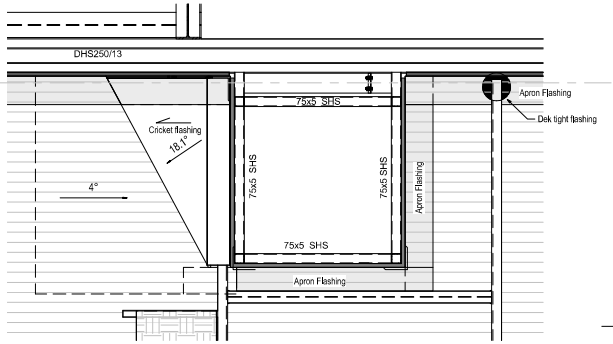


6 Duct frame roof and flashings
1 : 20

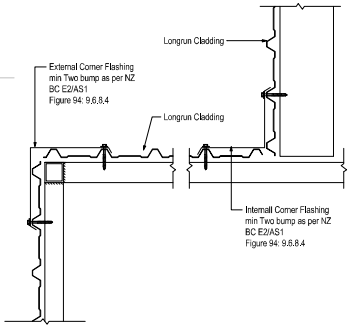


7 Barge and Apron Flashing Detail
1 : 10





8 Duct Frame flashings
1 : 20



Corner Flashings for profiled metal
1 : 10

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Thompson Engineering 2002 Ltd
PO Box 2091, Washdyke - Timaru
9b Meadows Road - Timaru
PH 0800 688 716
F (03) 688 7168
Email: admin@thompson.net.nz

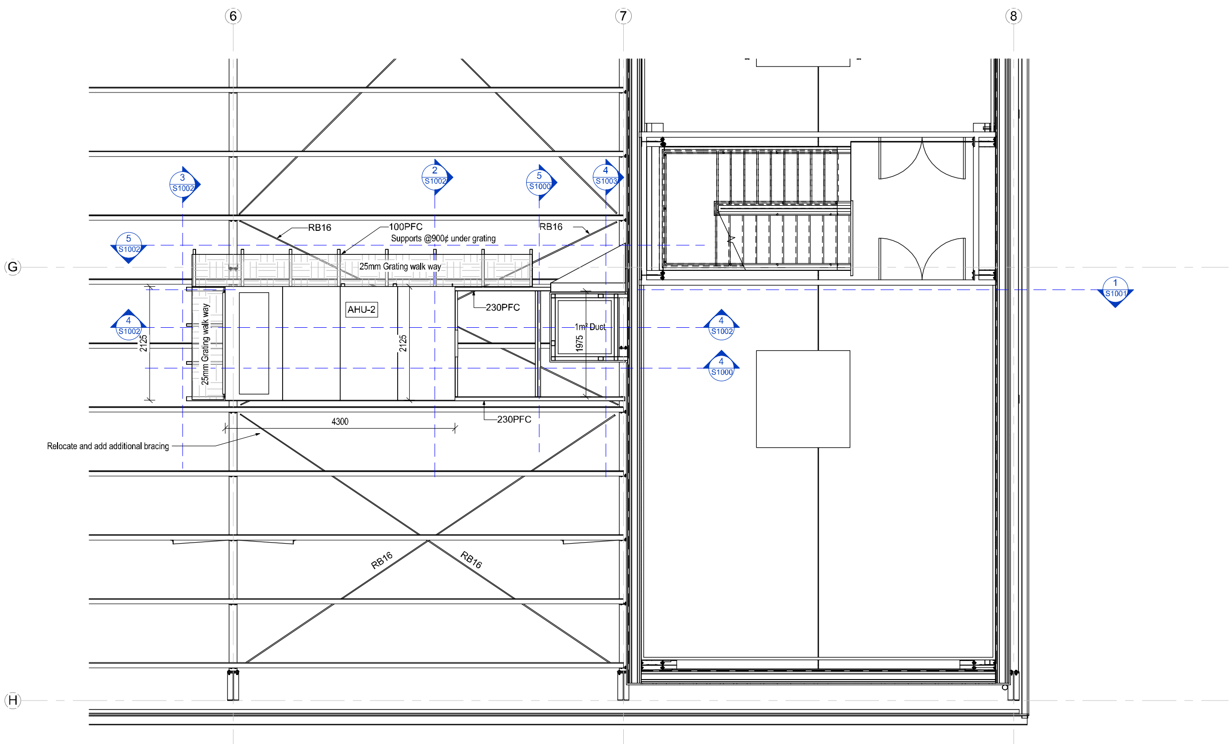
PROJECT

NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave,, Ashburton

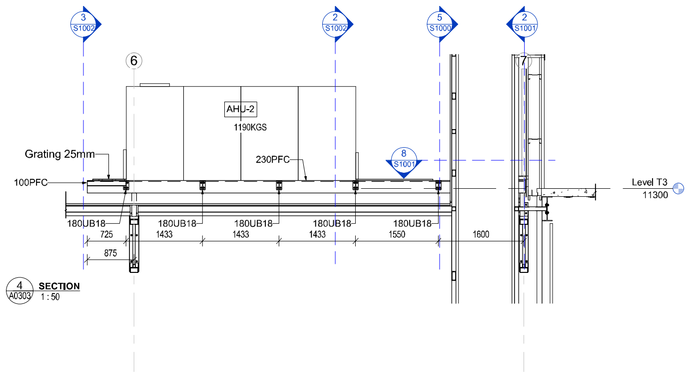
Rev#	Ammendments	Date
16	AHU-2 platform and Ducting	23/05/17

SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	23/05/2017
CHECKED BY	R. Qadeer		16
AHU 2 Ducting Frame Details			S1001

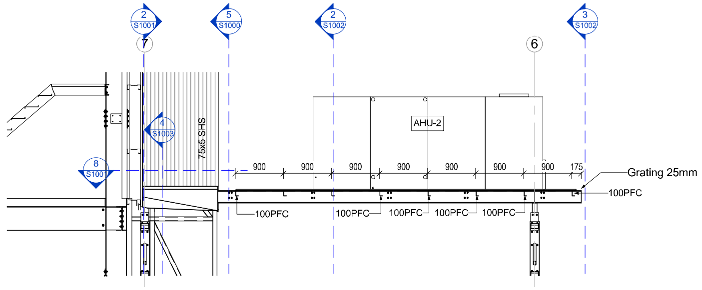
Please note: All dimensions to be verified on site — Paper size: A1



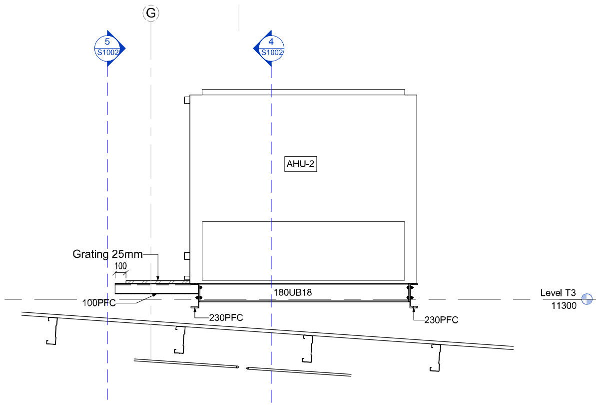
Roof Plan AHU 2
1 : 50



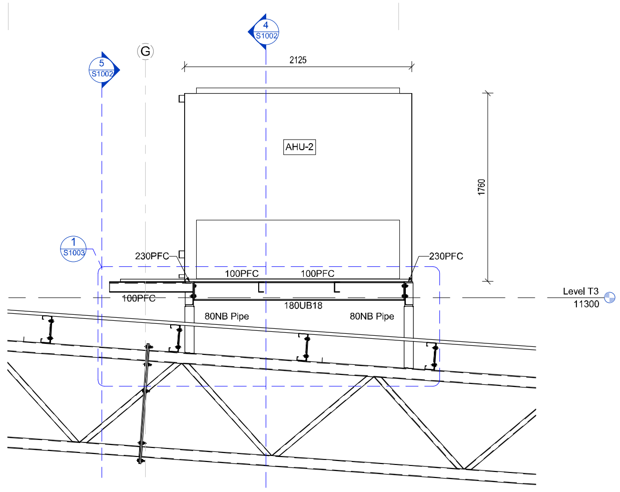
4 SECTION
A0303 1 : 50



5 SECTION
A0303 1 : 50



2 SECTION
S1000 1 : 25



3 SECTION
S1000 1 : 25

NOTE:
All External Steel to be
Hot Dipped Galvanized

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PH 0800 688 716 F (03) 688 7168

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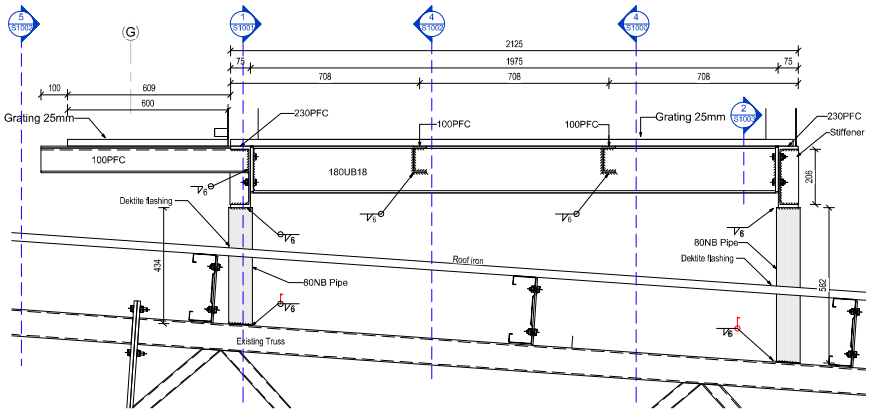
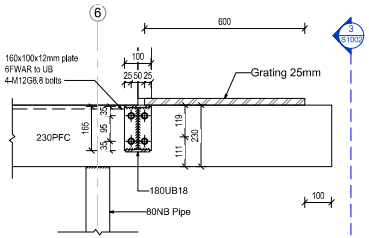
DRAWN BY	C. White	DATE	23/05/2017
CHECKED BY	R. Qadeer		16
	AHU 2 Frame		S1002

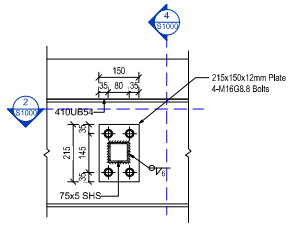
Please note: All dimensions to be verified on site
Paper size A1



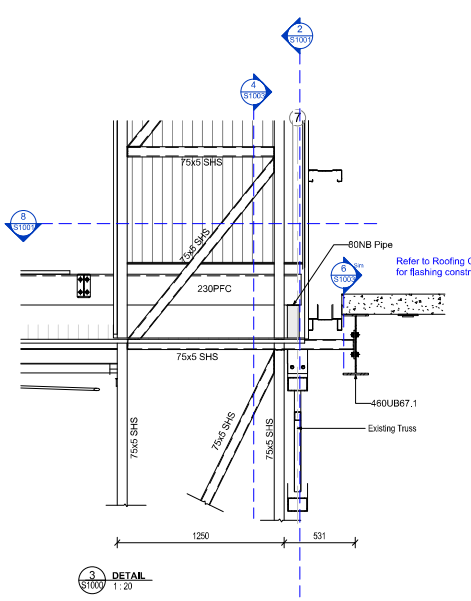
1 S1000 **DETAIL** :AHU 2 Frame to truss
1 : 10



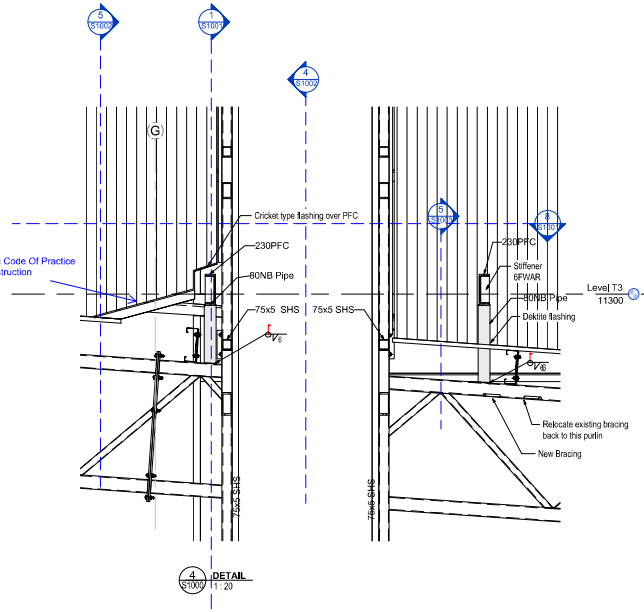
2 S1003 **DETAIL** :180UB End plate typ.
1 : 10



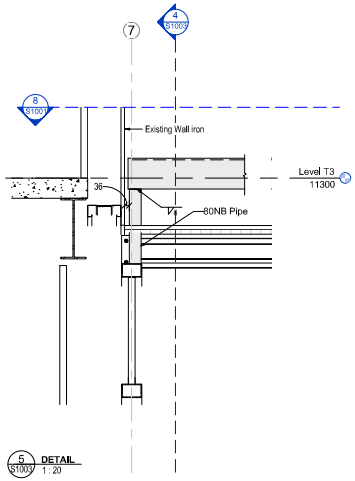
6 S1003 **DETAIL** :75x5 SHS End plate typ.
1 : 10



3 S1003 **DETAIL**
1 : 20



4 S1003 **DETAIL**
1 : 20



5 S1003 **DETAIL**
1 : 20

AHU 2 Structural Column Schedule

Type	Length	Volume	Weight (Kgs)
75x5 SHS	13064	0.02 m³	146.31
75x5 SHS	17329	0.02 m³	194.09
75x5 SHS	17233	0.02 m³	193
75x5 SHS	17329	0.02 m³	194.09
75x5 SHS	4094	0.01 m³	45.85
80NB Pipe	446	0.00 m³	4.57
80NB Pipe	586	0.00 m³	6.06
80NB Pipe	446	0.00 m³	4.59
80NB Pipe	596	0.00 m³	6.09
Grand total: 9	71110	0.10 m³	794.66

AHU- 2 Structural Framing Schedule

Type	Count	Cut Length	Volume	Weight (Kgs)
75x5 SHS	15	20084	0.00 m³	224.1
75x5 SHS	60	93750	0.00 m³	1018.7
100PFC	10	7697	0.00 m³	61.56
180UB18	5	9855	0.00 m³	176.21
230PFC	2	19405	0.03 m³	411.97
Grand total: 92	92	147791		1892.53

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Thompson Engineering 2002 Ltd
PO Box 2081, Washdyke - Timaru
9b Meadows Road - Timaru
PH 0800 688 716
F (03) 688 7168

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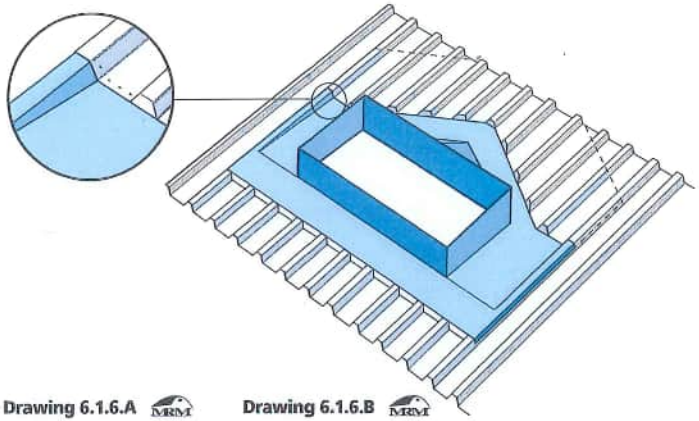
CHECKED BY	R. Qadeer		16
AHU 2 Frame Details			S1003
Please note: All dimensions to be verified on site		Paper size	A1



Drawing 6.1.6.A Drawing 6.1.6.B

The pitch of the side curb of the penetration flashing shown in drawing 6.1.6. is dependent on the pitch of the roof and the height of the rib, however it can be reduced to 1.5° as allowed for a cricket back curb.

6.1.7 SEALING

Although the design principles are the same for all metals, the method of sealing penetration flashings depends on the metals being used. Galvanised steel, zinc and copper can be soft soldered, however because aluminium, unpainted and painted Z and AZ coatings cannot be soldered, the acceptable method of sealing is either a neutral cure silicone sealant or a butyl sealing tape.

These sealants should only be used in conjunction with mechanical fasteners.

The penetration flashing should be made weathertight without relying on sealants as a first line of defence against water ingress. When a sealant is used to prevent the accumulation of dirt in the joint, the excess sealant extruded from the lap should be removed by a plastic spatula or purpose made plastic scoop because excess sealant not only collects dirt which can cause corrosion but is unsightly.

Sealant should always be used in conjunction with mechanical fastening and be applied between the two sheets to be lapped before they are fixed together. To apply the sealant after the joint has been made is not acceptable. *(see sealants section 5.6)*

6.1.8 ALTERNATIVE MATERIALS

Where the use of sheet metal is not the most pragmatic method to flash a penetration, alternative materials can be used providing that they are compatible and comply with the design requirements and conditions outlined in this Code.

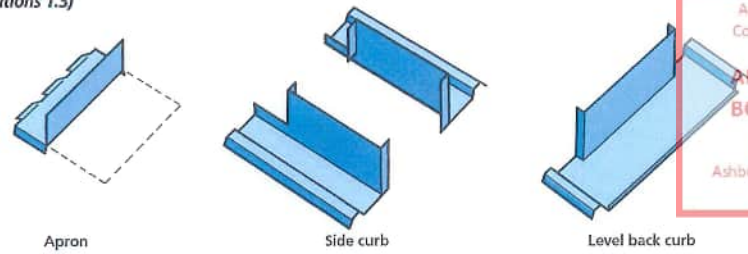
The preferred alternative material is butyl rubber installed on a substrate and in accordance with the recommended roofing standards for that material. The fully supported deck will provide access for maintenance to the penetrations which otherwise could damage metal roofing unless special precautions are taken. It can be used to install multiple penetrations in tandem and is also suitable for retrofitting penetrations in an existing metal roof.

The provisions of section 6.1.2. (obstructions), and the discharge capacity outlined in section 6.1.6. should be complied with.

6.2 PENETRATION DESIGN

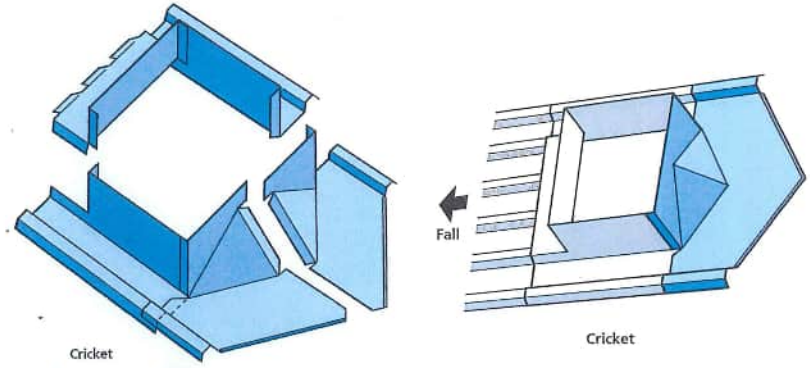
6.2.1 NOMENCLATURE.

The nomenclature used in describing penetration flashings may differ in different parts of New Zealand: *(refer to definitions 1.3)*

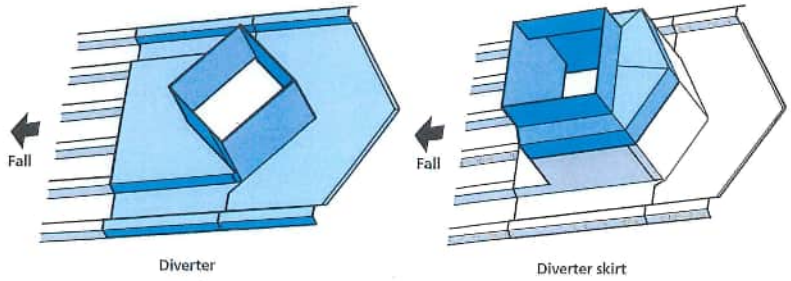


Drawing 6.2.1.A

This detail is suitable for penetrations up to 600mm wide.



Drawing 6.2.1.B



Drawing 6.2.1.C

6.2.5 DETAILS

The penetration details drawn in this Code of Practice have been endorsed by the New Zealand Metal Roofing Manufacturers Incorporated (NZMRM Inc) and the Roofing Association of New Zealand (RANZ), as being acceptable trade practice. The designs are conservative because the most unfavourable circumstances have been assumed; i.e. minimum pitch, ribs not aligning with the penetration, and maximum rainfall.

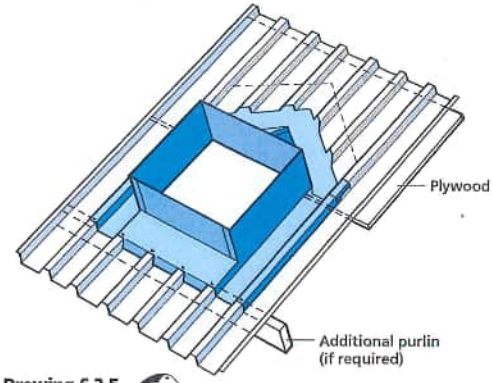
The techniques used and the details drawn can be used in most circumstances, and also be combined in various ways. There are many types of acceptable penetration flashing designs, however some are only suitable where the roof pitch is greater than the minimum recommended for the particular profile.

Some are acceptable practice only and the preferred method is recommended.

All penetration flashing details should be planned and on site improvised solutions are not acceptable. Where the skill of the roofing contractor does not extend to sheet metal work, other persons possessing those skills should be used for the design and manufacture of such penetration flashings.

All penetrations over 300mm wide require additional structural support to be provided either by additional purlins or plywood with a minimum thickness of 12mm. H3 treated plywood should be securely fastened to the structure and provide not only support for the flashings and sheeting, but is required for additional fixing.

The penetration flashing must be separated by a water resistant underlay.



Drawing 6.2.5.

6.2.7 TYPE A SOAKER

Soaker or underflashing penetration designs are those that drain at the plane of the roof pan.

They are the preferred design and will produce a weathertight flashing in any circumstance where a hole is cut in metal roof cladding.

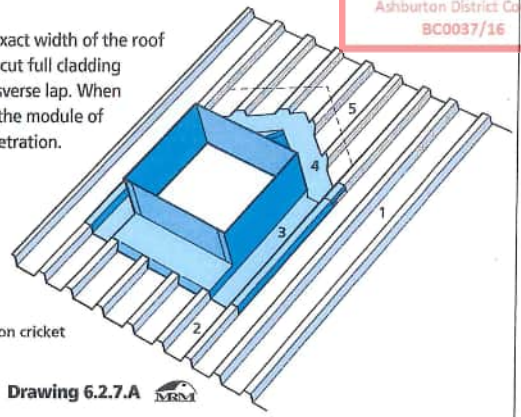
For new installations the location of penetrations should be designed and the position known before the roof is installed.

For safety and simplicity the safety mesh, underlay and roof cladding should be laid to cover the openings provided the sheets lengths covering the openings are increased by 150mm or the lap required to break the sheet at the head or back curb of the penetration. ***(See drawing 6.2.7.B)***

All soaker flashings have an overlap to mate with the side overlap of the profile, which ensures that even in an overflow situation, water ingress is avoided.

It is highly unlikely that a penetration will be the exact width of the roof sheet so the preferred method of weathering is to cut full cladding sheets above the penetration and flash at the transverse lap. When penetrations line up with the ribs of the sheeting, the module of the roof cladding determines the width of the penetration.

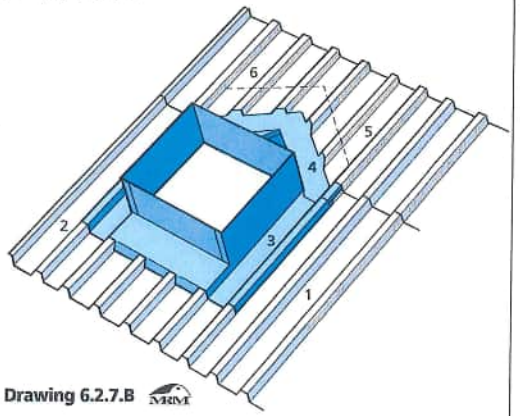
Sheet 1 is full length
Sheet 2 is cut to the bottom of the penetration dimension
Flashing 3 is the side curb
Flashing 4 is the back curb
Sheet 5 is cut to the top of the penetration cricket + 75mm



Drawing 6.2.7.A

When the ribs do not align with the penetration, weathering can be achieved in several ways but the simplest and preferred method is to order longer sheets at the time of installation.

Sheet 1 & 2 are cut to the bottom of the penetration and 150mm minimum above the cricket
Flashing 3 is the side curb
Flashing 4 is the back curb
Sheet 5 & 6 are cut to the top of the penetration hole and shaped to the cricket.



Drawing 6.2.7.B

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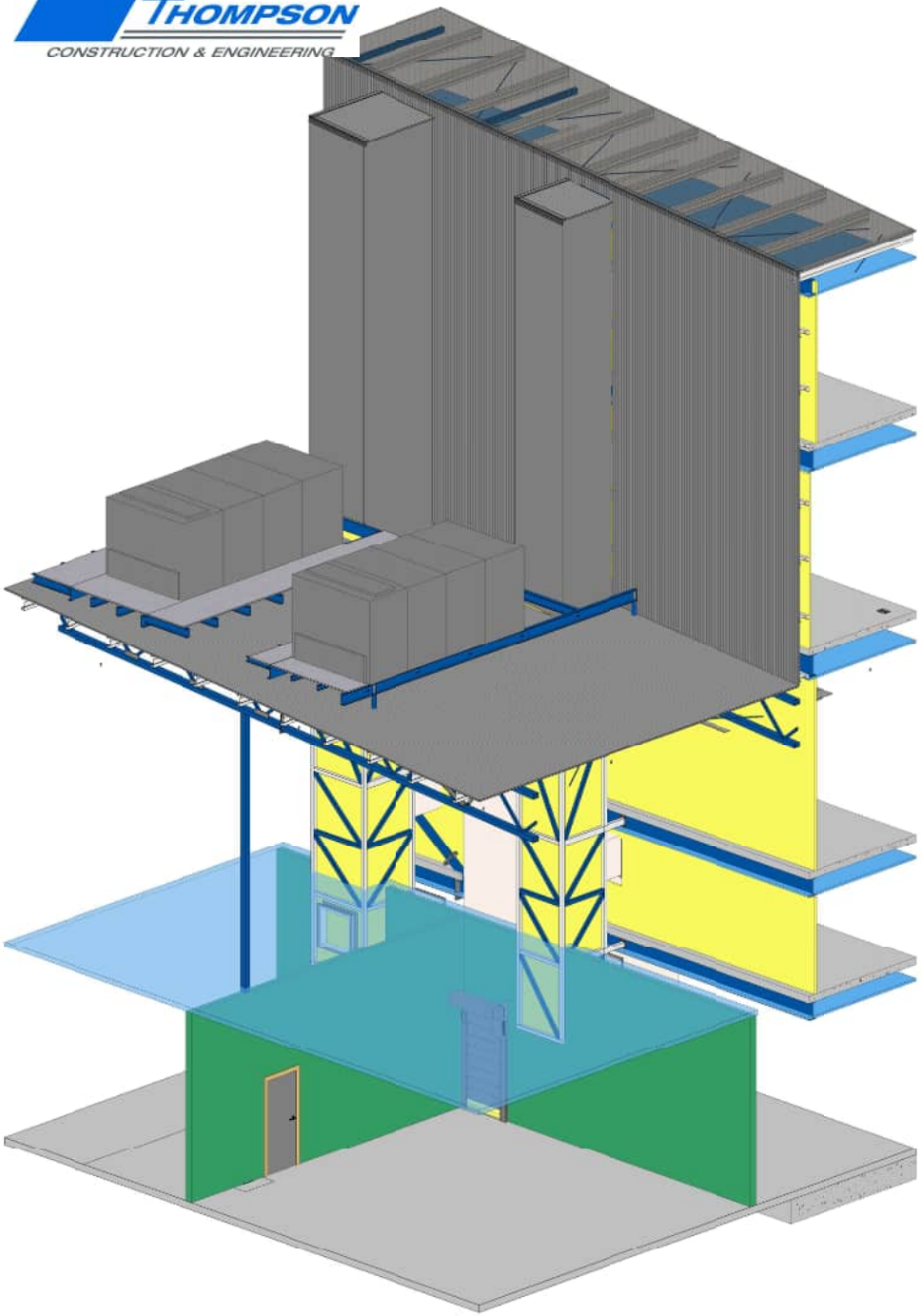
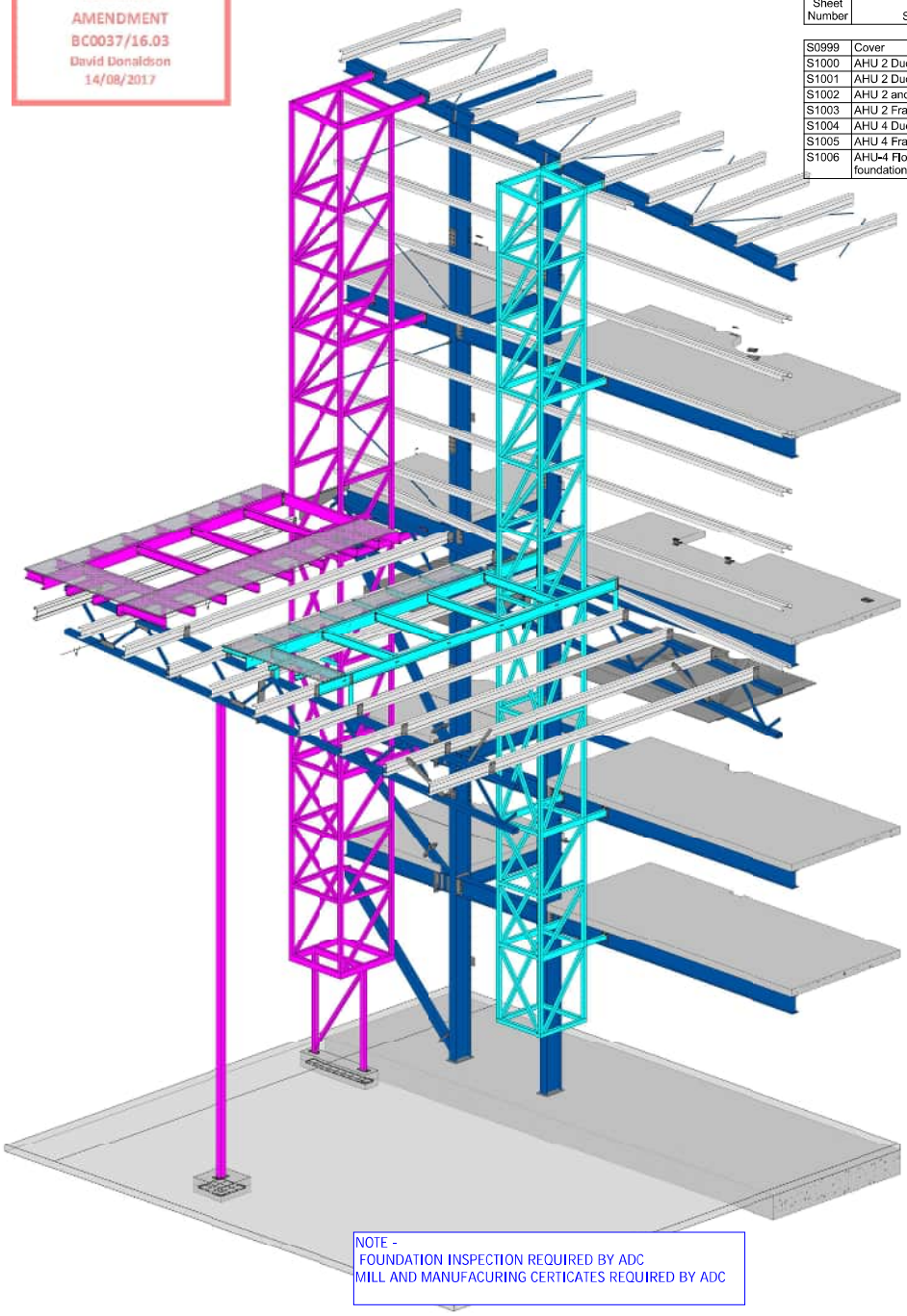




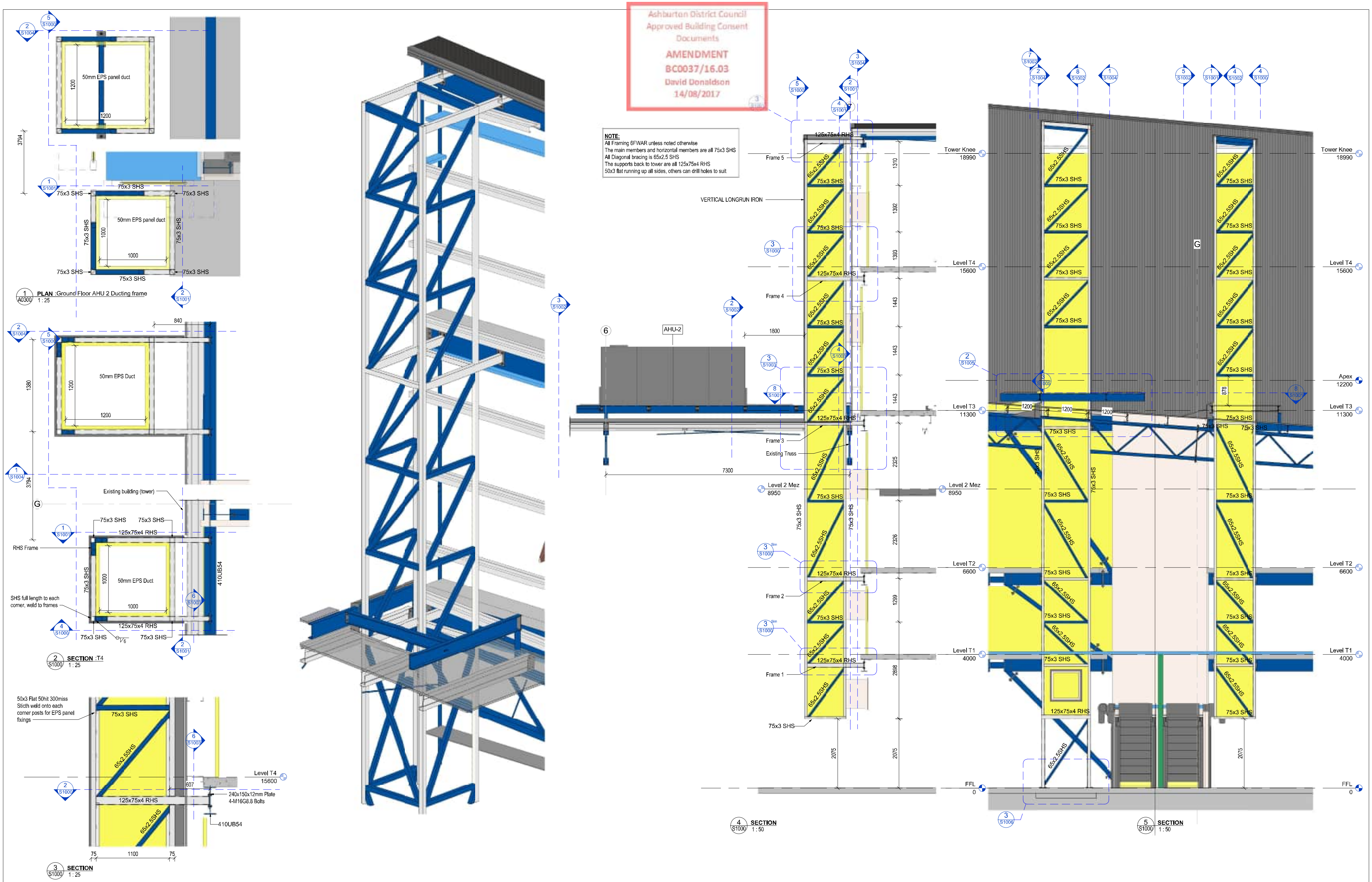
AHU-2 and 4 Sheet List

Sheet Number	Sheet Name	Current Revision	Current Revision Date
S0999	Cover	18	7/7/17
S1000	AHU 2 Ducting Frame	18	7/7/17
S1001	AHU 2 Ducting Frame Details	18	7/7/17
S1002	AHU 2 and 4 Frames	18	7/7/17
S1003	AHU 2 Frame Details	18	7/7/17
S1004	AHU 4 Ducting Frame	18	7/7/17
S1005	AHU 4 Frame Details	18	7/7/17
S1006	AHU-4 Floor plan and foundation details	18	7/7/17

NOTE -
FOUNDATION INSPECTION REQUIRED BY ADC
MILL AND MANUFACURING CERTICATES REQUIRED BY ADC

NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

12412
26/07/2017



PROJECT

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Infant Formula Blending Plant

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CONSTRUCTION & ENGINEERING
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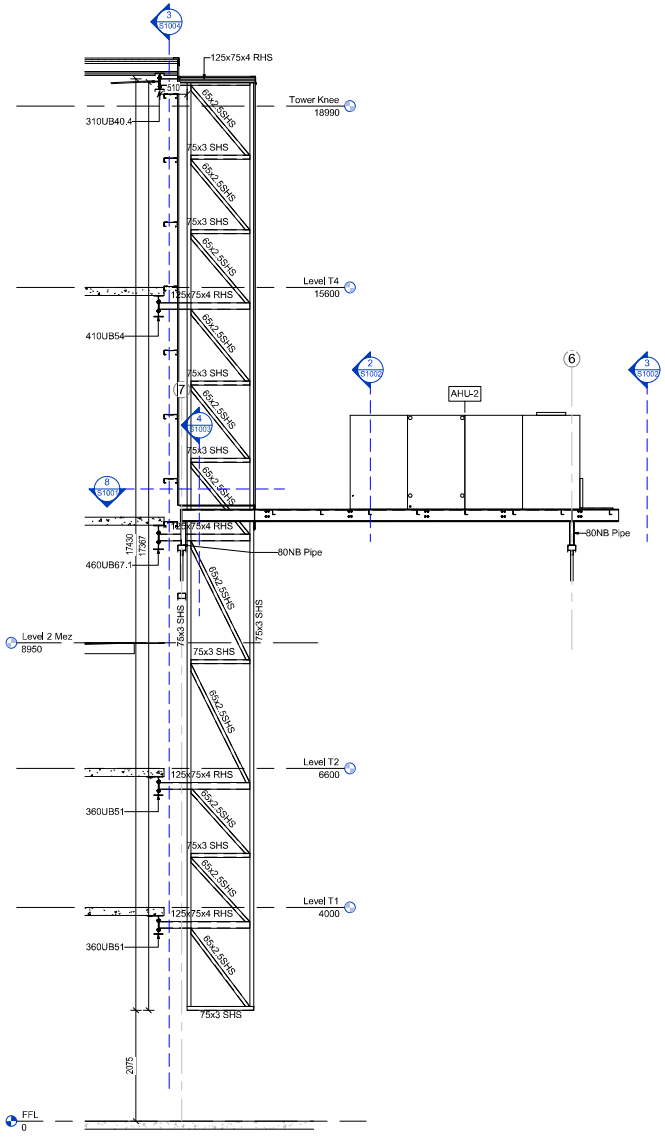
PO Box 2081, Washdyke - Timaru
9b Meadows Road - Timaru
PH 0800 688 716 F (03) 688 7168

Rev#	Ammendments	Date
16	AHU-2 platform and Ducting	23/05/17
17	AHU-2 platform downsize of steel	31/05/17
18	AHU-4 Platform and Ducting	7/7/17

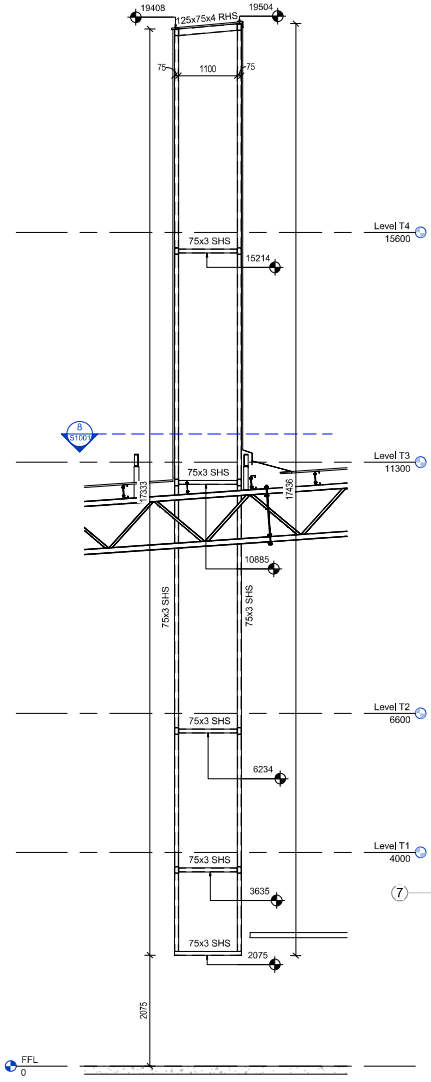
SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	26/07/2017
CHECKED BY	R. Qadeer		18
AHU 2 Ducting Frame			S1000

Please note: All dimensions to be verified on site

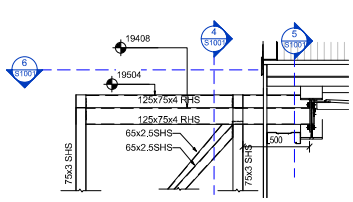
Paper size A1



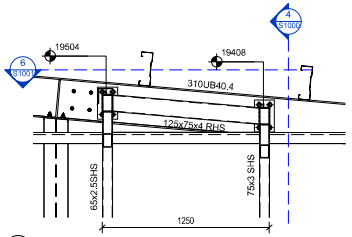
1 Duct fame side elevation
1 : 50



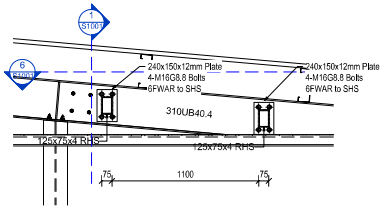
2 Duct frame Back Elevation
1 : 50



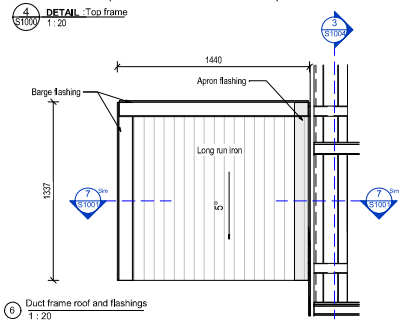
3 S1001 SECTION :Top of duct frame
1 : 20



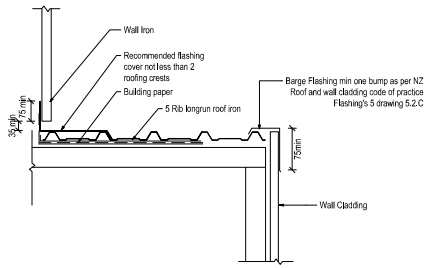
4 S1001 DETAIL :Top frame
1 : 20



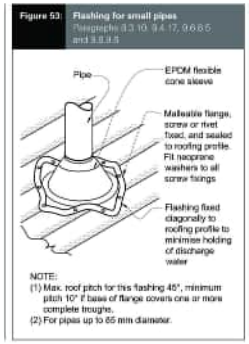
5 S1001 DETAIL :Top of duct frame connection
1 : 20

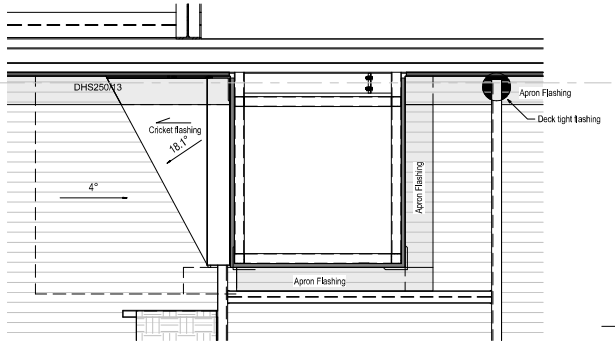


6 Duct frame roof and flashings
1 : 20

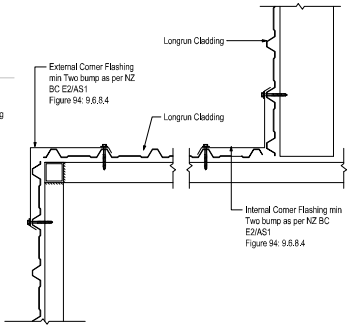


7 Barge and Apron Flashing Detail
1 : 10





8 Duct Frame flashings
1 : 20



Corner Flashings for profiled metal
1 : 10

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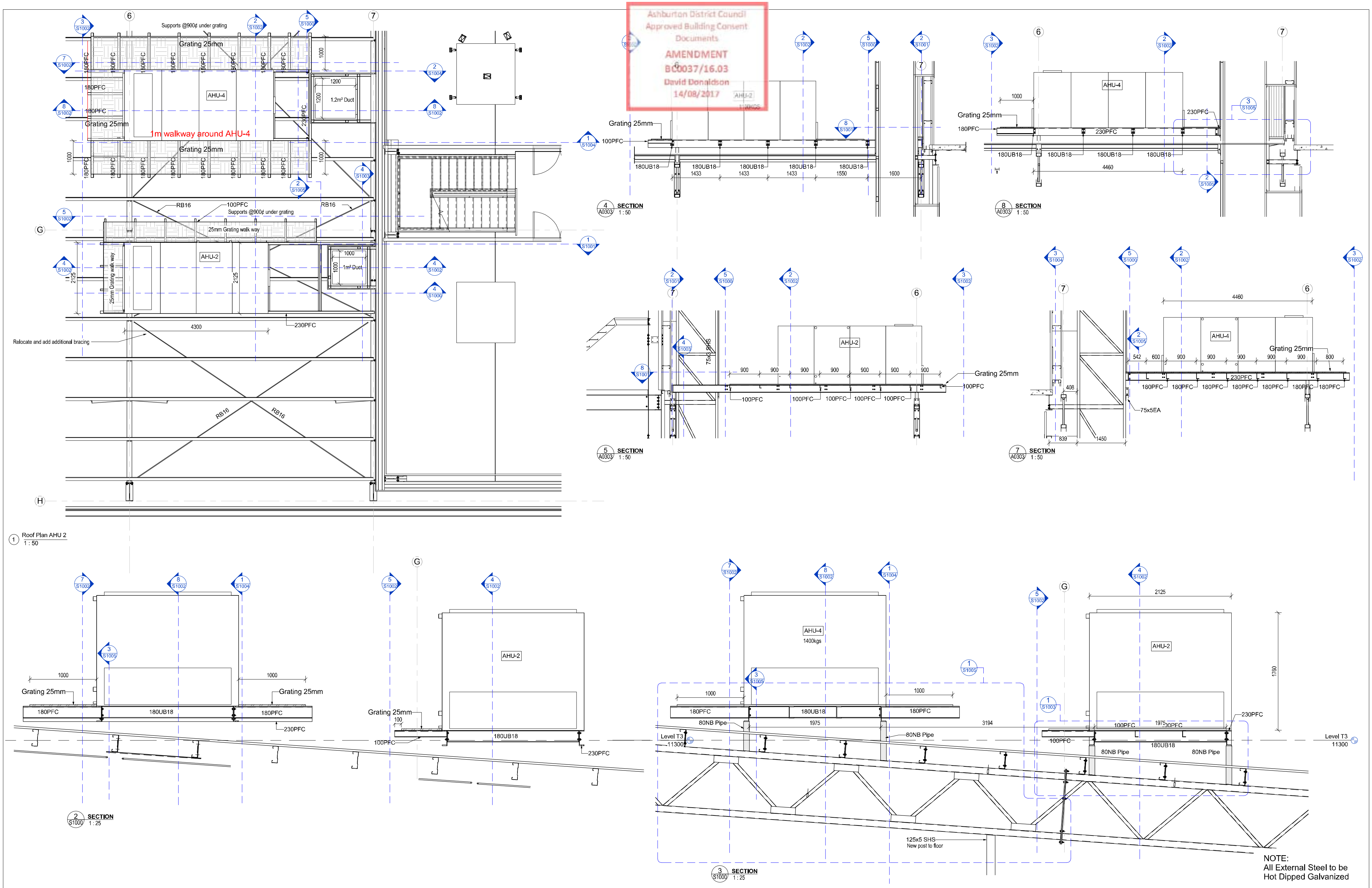
18	AHU-4 Platform and Ducting	7/7/17

SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	26/07/2017
CHECKED BY	R. Qadeer		18
AHU 2 Ducting Frame Details			S1001
Please note: All dimensions to be verified on site		Paper size	A1



PROJECT

NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

Rev#	Ammendments	Date
16	AHU-2 platform and Ducting	23/05/17
17	AHU-2 platform downsize of steel	31/05/17
18	AHU-4 Platform and Ducting	7/7/17

SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	26/07/2017
CHECKED BY	R. Qadeer		18
AHU 2 and 4 Frames			S1002

Please note: All dimensions to be verified on site. Paper size A1

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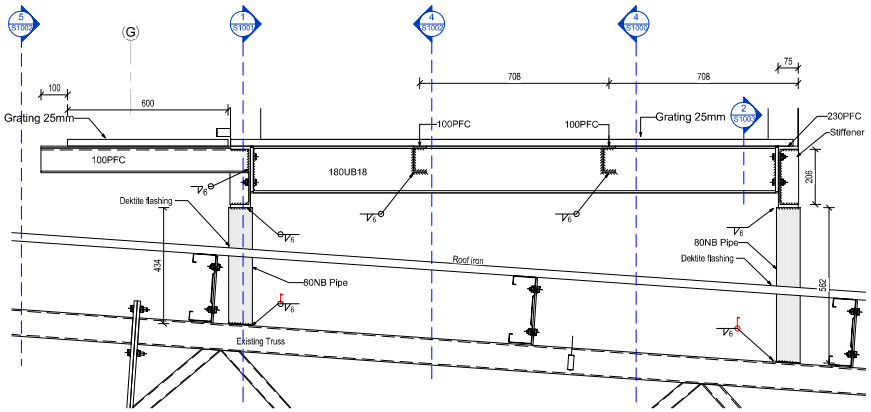
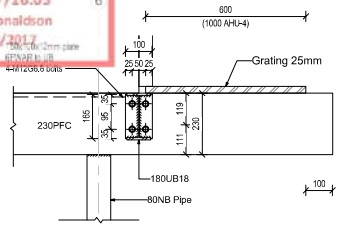
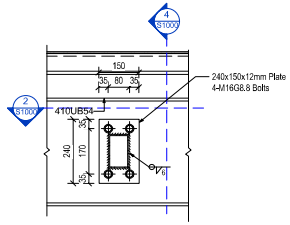


1 S1002 **DETAIL** :AHU 2 Frame to truss
1 : 10



2 S1002 **DETAIL** :180UB End plate typ.
1 : 10



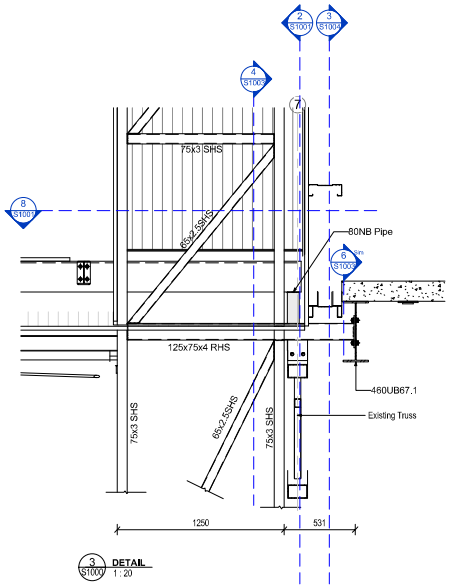
6 S1002 **DETAIL** :125x75x4 SHS End plate typ.
1 : 10

AHU 4 Structural Column Schedule

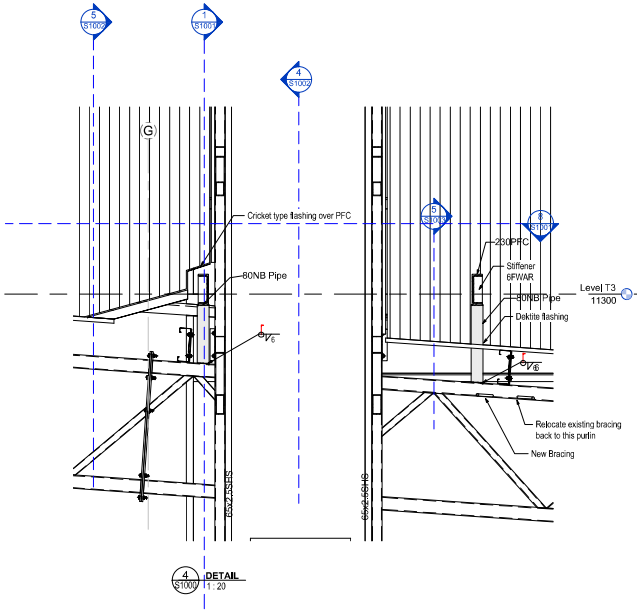
Type	Length	Volume	Weight (Kgs)
75x3 SHS	17514	0.02 m³	121.06
75x3 SHS	17635	0.02 m³	121.89
75x3 SHS	17760	0.02 m³	122.75
75x3 SHS	17639	0.02 m³	121.92
80NB Pipe	807	0.00 m³	4.59
80NB Pipe	947	0.00 m³	6.09
89x5 SHS	2075	0.00 m³	27.89
89x5 SHS	2075	0.00 m³	27.89
125x5 SHS	10190	0.02 m³	189.58
Grand total: 9	86641	0.09 m³	743.66

AHU-4 Structural Framing Schedule

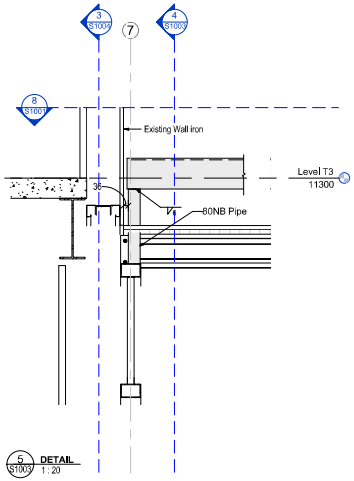
Type	Count	Cut Length	Volume	Weight (Kgs)
65x2.5SHS	31	62826	0.00 m³	303.78
75x3 SHS	19	24700	0.00 m³	170.73
75x5 SHS	6	7800	0.00 m³	87.36
125x75x4 RHS	15	27448	0.00 m³	333.32
180PFC	18	20891	0.00 m³	426.22
180UB18	4	7900	0.00 m³	141.25
230PFC	3	17538		440.42
Grand total: 96	96	169103		1903.09



3 S1002 **DETAIL**
1 : 20



4 S1002 **DETAIL**
1 : 20



5 S1002 **DETAIL**
1 : 20

AHU 2 Structural Column Schedule

Type	Length	Volume	Weight (Kgs)
75x3 SHS	13039	0.01 m³	90.12
75x3 SHS	17354	0.01 m³	119.95
75x3 SHS	17258	0.01 m³	119.28
75x3 SHS	17354	0.01 m³	119.95
75x3 SHS	4094	0.00 m³	28.3
80NB Pipe	446	0.00 m³	4.57
80NB Pipe	586	0.00 m³	6.06
80NB Pipe	446	0.00 m³	4.59
80NB Pipe	586	0.00 m³	6.09
Grand total: 9	71160	0.06 m³	498.93

AHU- 2 Structural Framing Schedule

Type	Count	Cut Length	Volume	Weight (Kgs)
65x2.5SHS	32	59677	0.00 m³	287.35
75x3 SHS	32	36000	0.00 m³	246.76
100PFC	10	7697	0.00 m³	61.56
125x75x4 RHS	12	19292	0.00 m³	236.8
180UB18	5	9855	0.00 m³	176.21
230PFC	2	16405	0.03 m³	411.97
Grand total: 93	93	148926		1420.64

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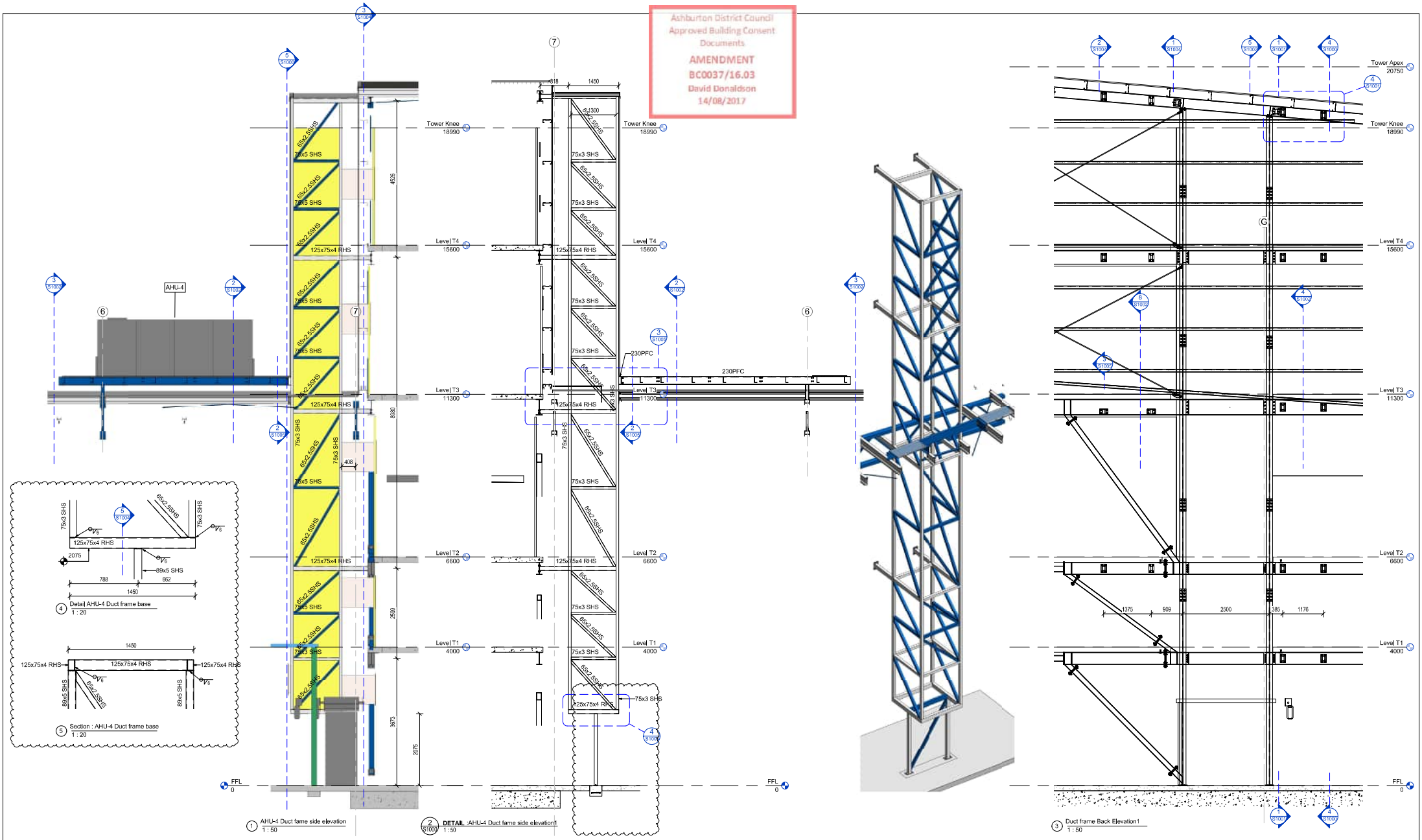
PROJECT

NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave,. Ashburton

Rev#	Ammendments	Date
16	AHU-2 platform and Ducting	23/05/17
17	AHU-2 platform downsize of steel	31/05/17
18	AHU-4 Platform and Ducting	7/7/17

SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	26/07/2017
CHECKED BY	R. Qadeer		18
AHU 2 Frame Details			S1003
Please note: All dimensions to be verified on site		Paper size	A1



1 AHU-4 Duct fame side elevation
1 : 50

2 S1000 **DETAIL** :AHU-4 Duct fame side elevation1
1 : 50

3 Duct frame Back Elevation1
1 : 50

4 Detail AHU-4 Duct frame base
1 : 20

5 Section : AHU-4 Duct frame base
1 : 20

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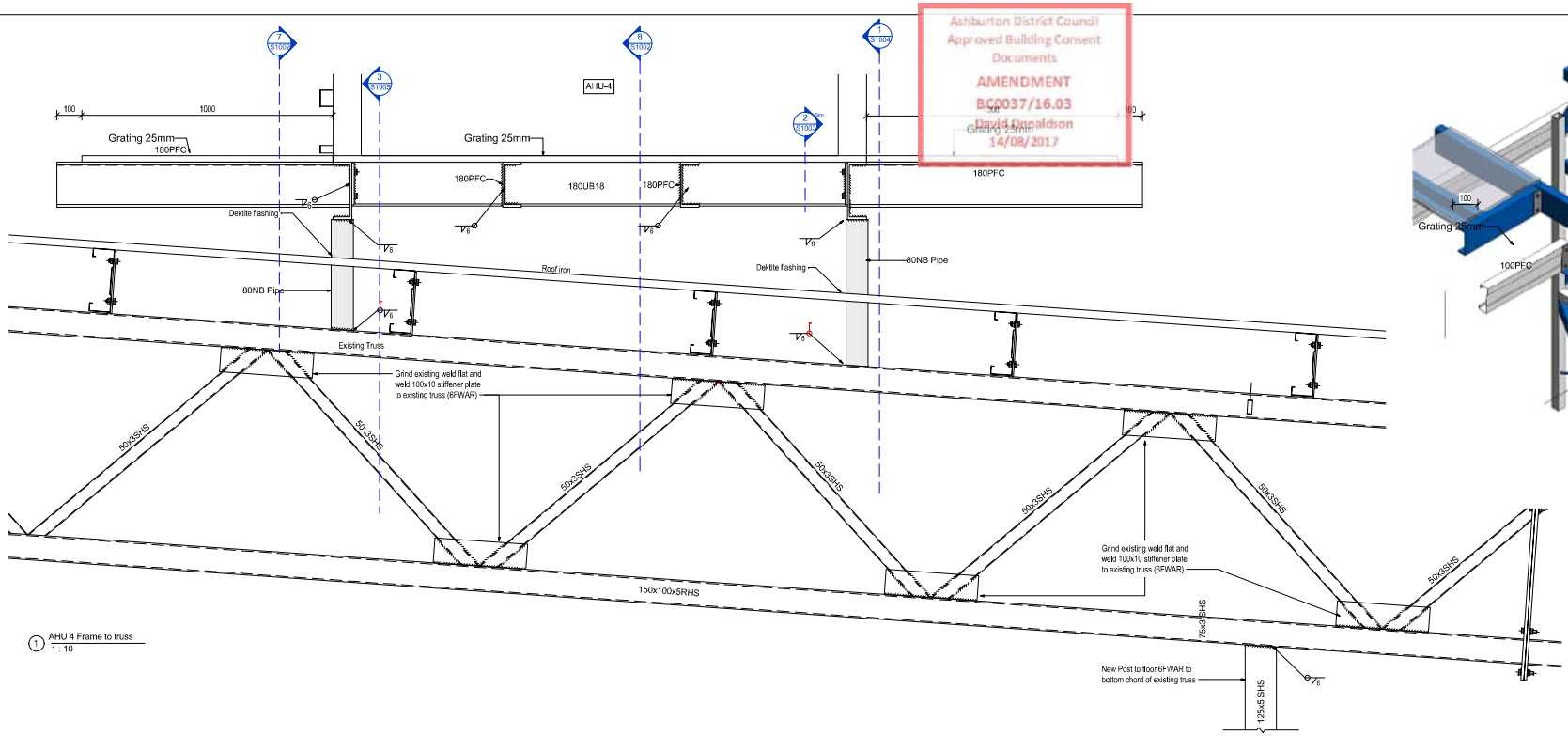
PROJECT

NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave,, Ashburton

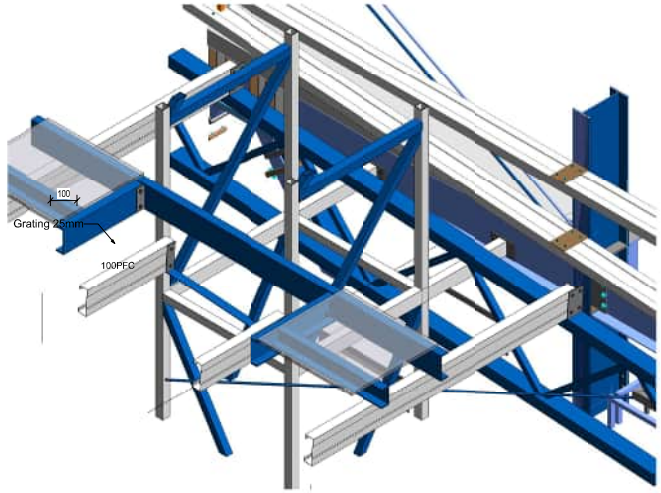
Rev#	Ammendments	Date
18	AHU-4 Platform and Ducting	7/7/17

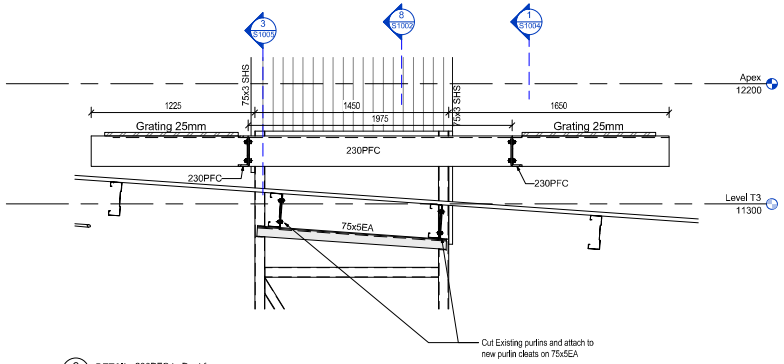
SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	26/07/2017
CHECKED BY	R. Qadeer		18
AHU 4 Ducting Frame			S1004

Please note: All dimensions to be verified on site — Paper size: A1

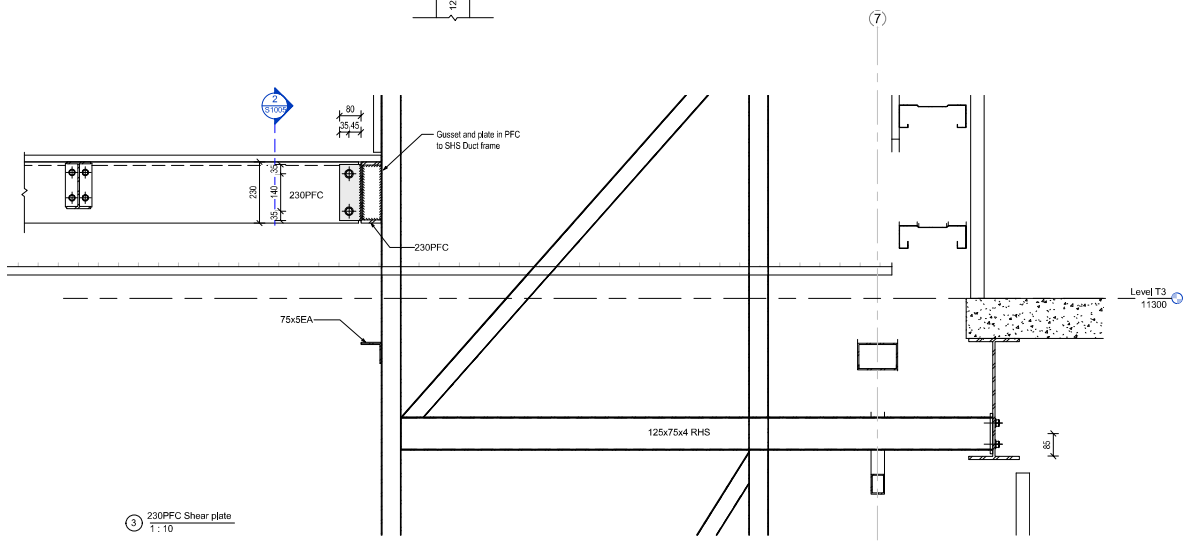


1 AHU 4 Frame to truss
1 : 10





2 DETAIL :230PFC to Duct frame
1 : 20



3 230PFC Shear plate
1 : 10

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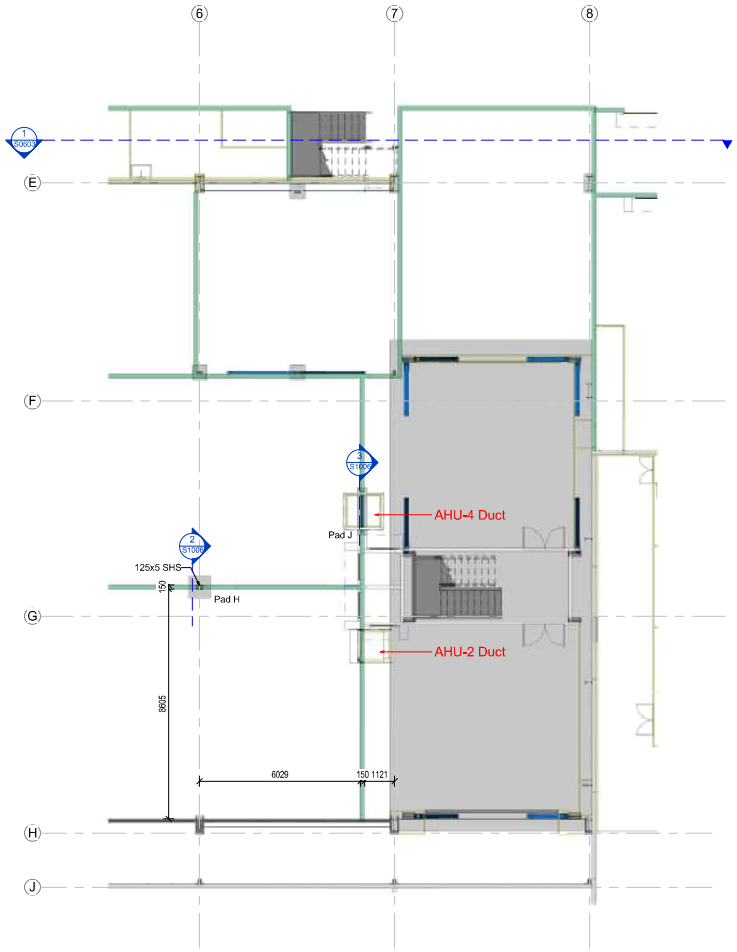
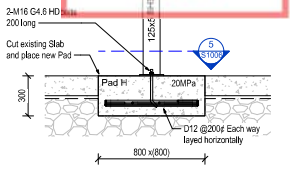
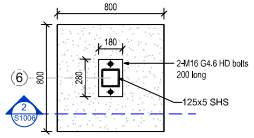


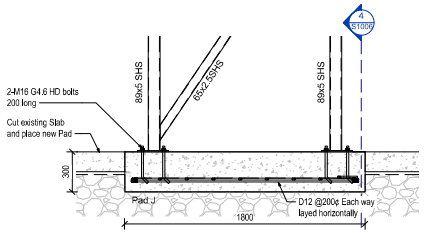
1 Floor Plan AHU4
1 : 100



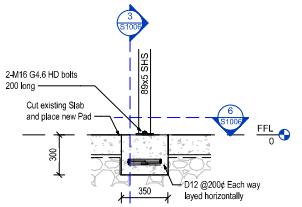
2 Pad H Detail
1 : 20



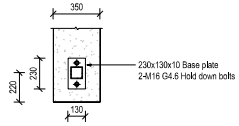
5 125SHS Base plate
1 : 20



3 Pad J detail
1 : 20



4 Pad J Section
1 : 20



6 AHU 4 Duct frame base plate
1 : 20

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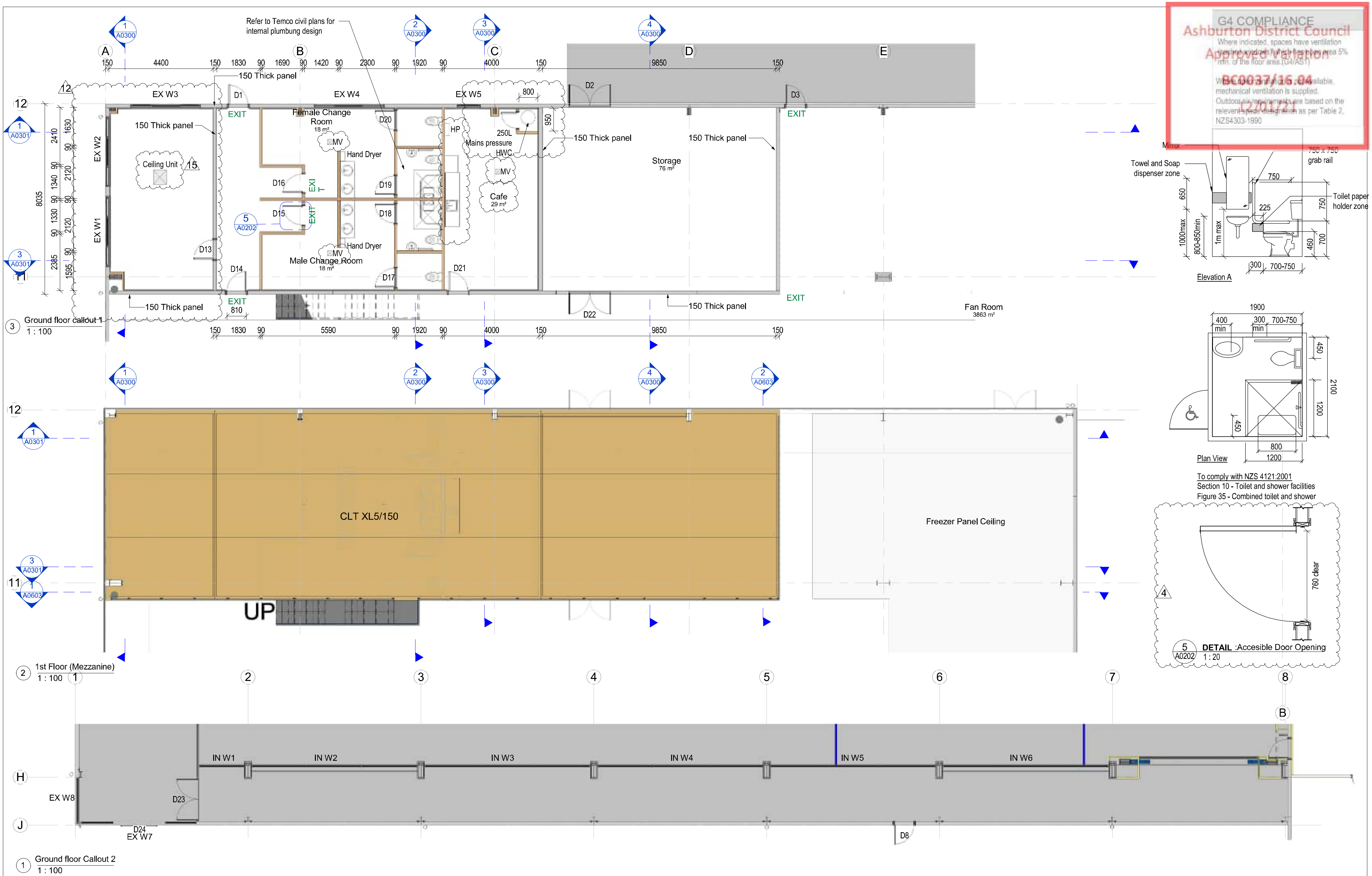
PROJECT

NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave,, Ashburton

Rev#	Ammendments	Date
18	AHU-4 Platform and Ducting	7/7/17

SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	26/07/2017
CHECKED BY	R. Qadeer		18
AHU-4 Floor plan and foundation details			S1006

Please note: All dimensions to be verified on site — Paper size: A1



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PROJECT

NZ Dairy Collaborative Group
Infant Formula Blending Plant

9 Ashford Ave., Ashburton

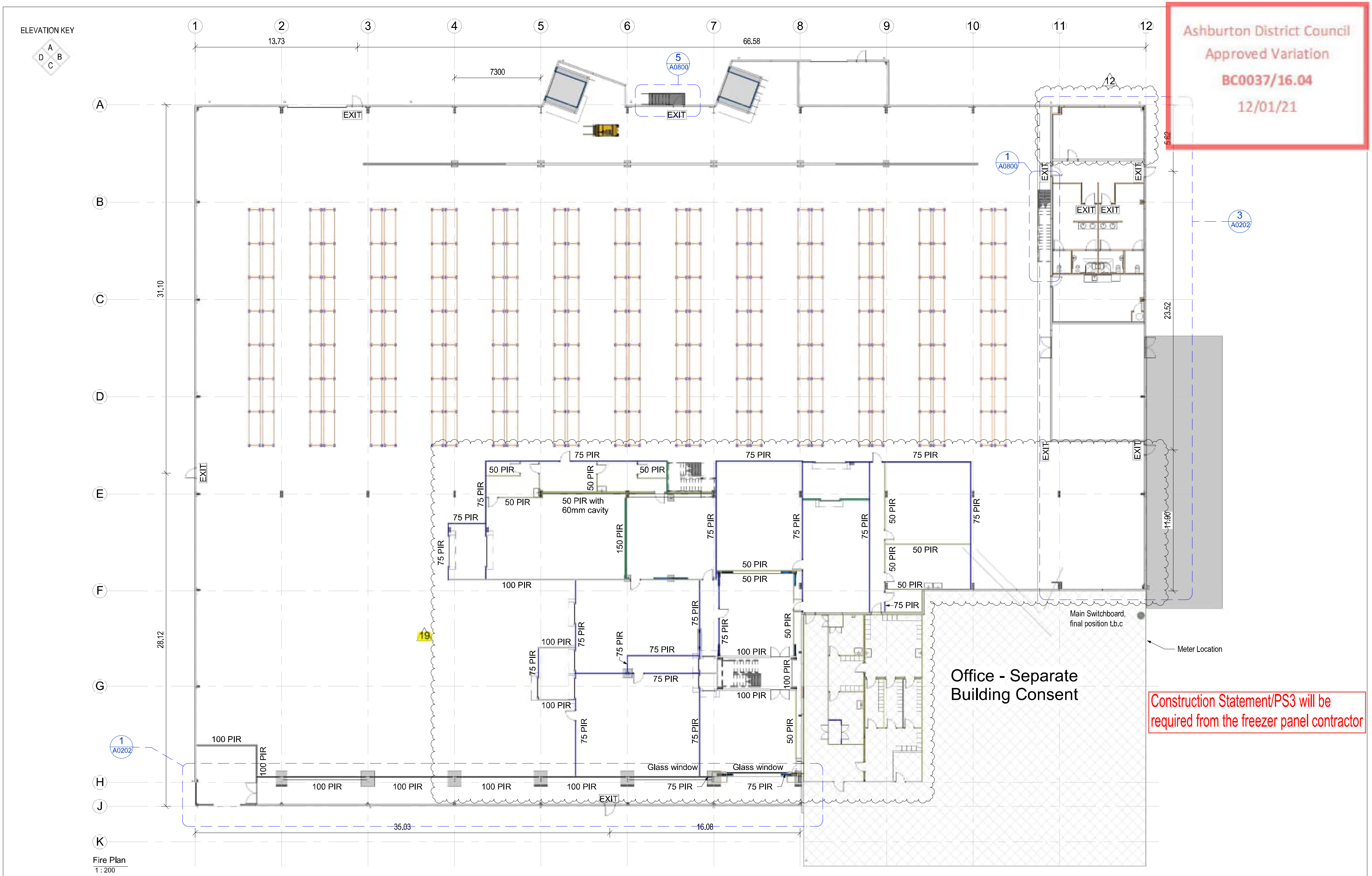
Arch

Rev#	Amendments	Date
4	Council RFI	16/02/16
12	Mods to operational fitout	28/07/16
15	Contract notes	19/04/17

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY	A. Cloake	REV	15
Ground floor callouts		A0202	

Please note: All dimensions to be verified on site

Paper size A2



Ashburton District Council
Approved Variation
BC0037/16.04
12/01/21

Construction Statement/PS3 will be required from the freezer panel contractor

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PROJECT

NZ Dairy Collaborative Group
Infant Formula Blending Plant

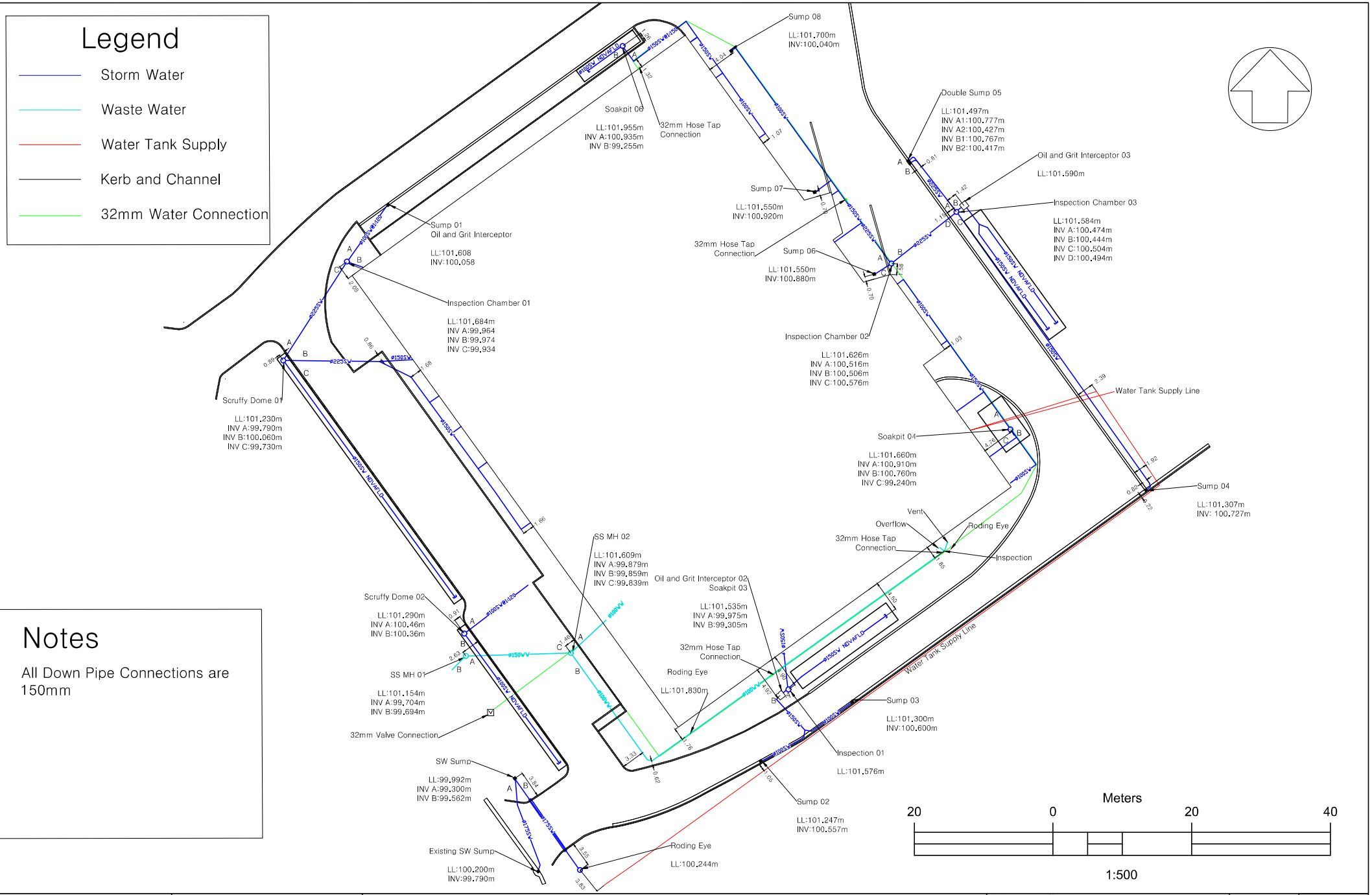
9 Ashford Ave., Ashburton

Arch

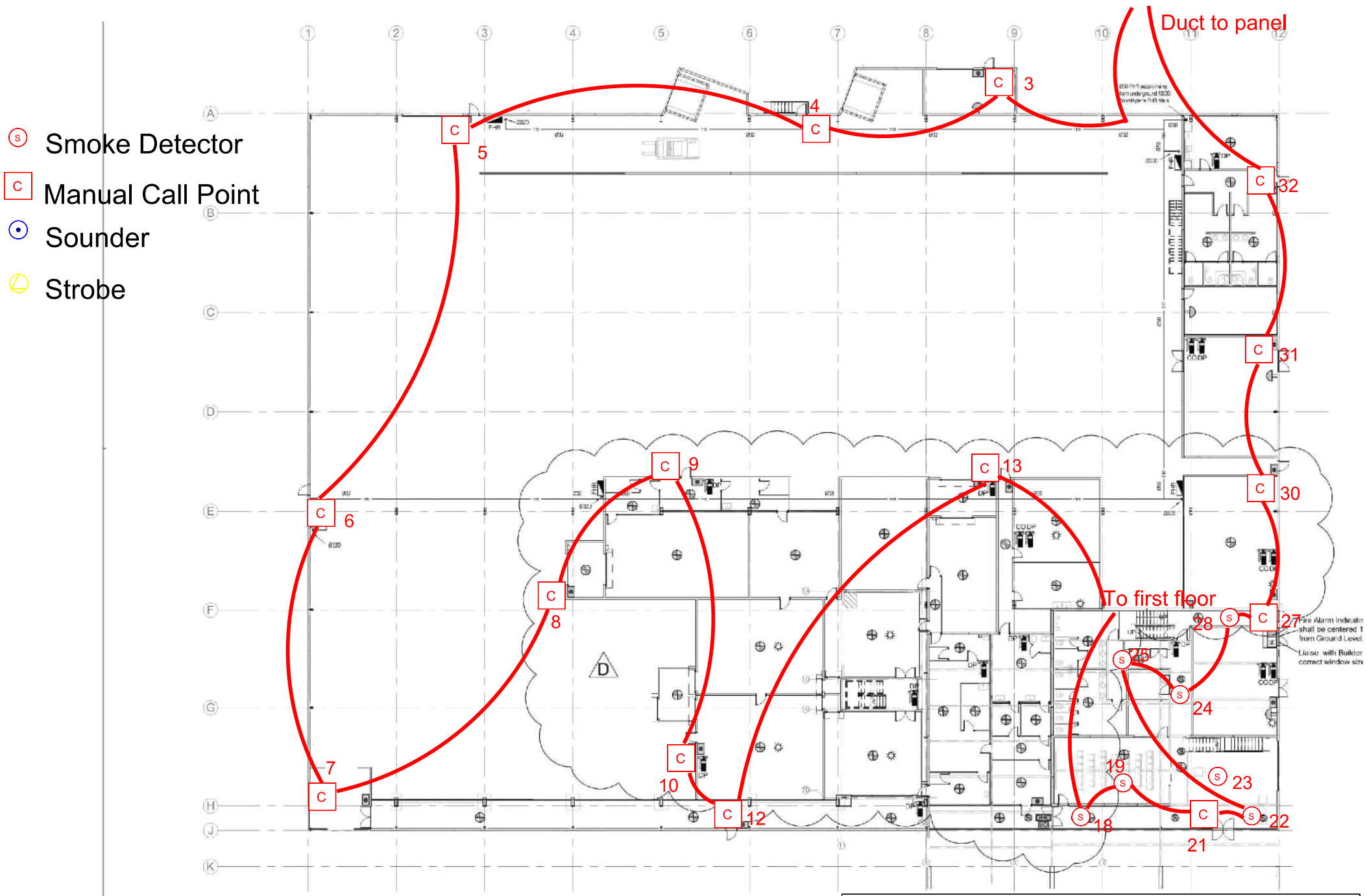
Rev#	Amendments	Date
12	Mods to operational fitout	28/07/16
19	Insulation panel layout	25/07/19

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY	A. Cloake	REV	19
Ground Floor		A0200	

Please note: All dimensions to be verified on site — Paper size A2



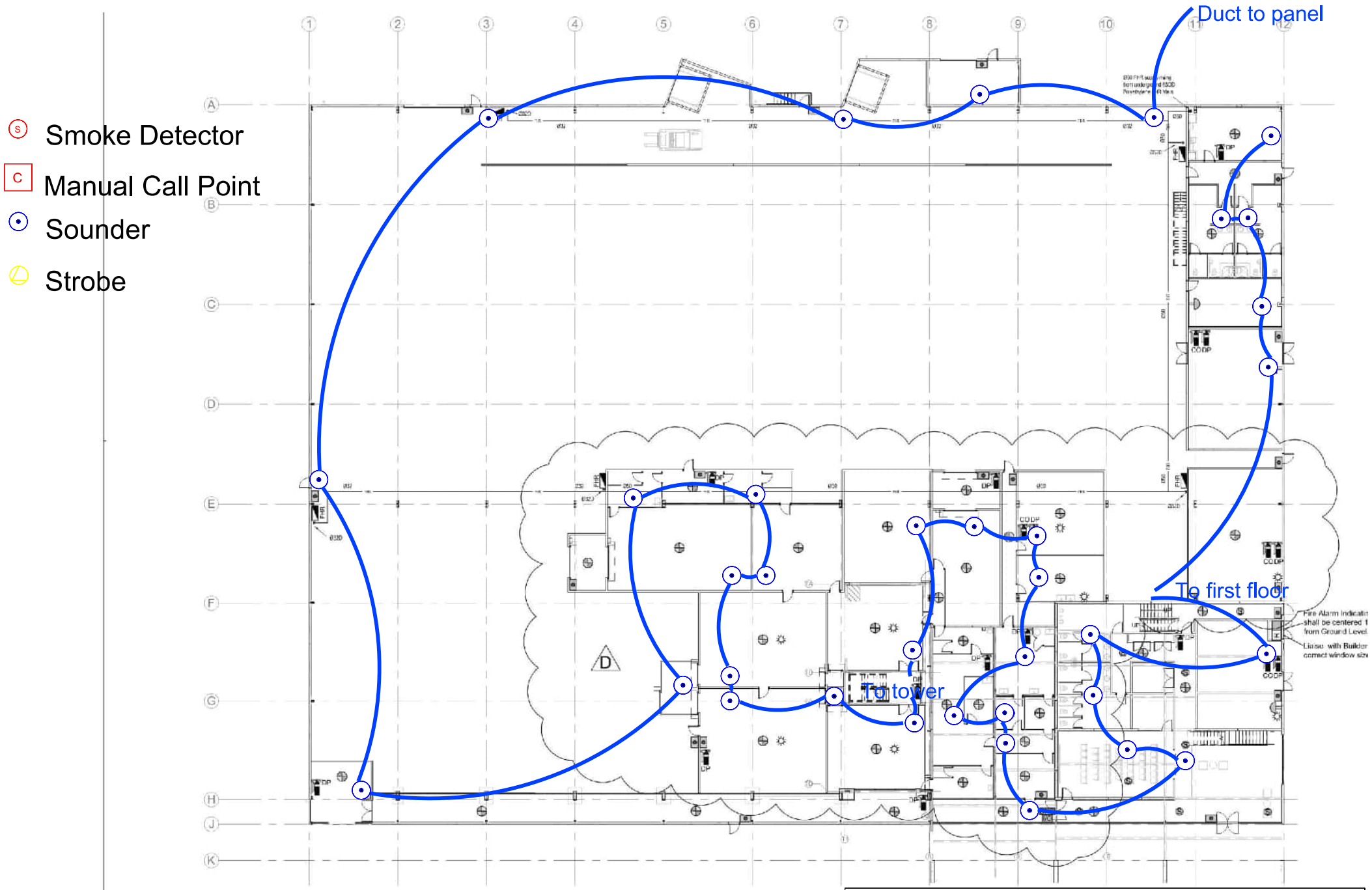
DESIGN:NZ Dairy Asbuild	SURVEYED: F.Pichon	NZ Dairy SW & WW Asbuild	ROONEY Earthmoving	REV	PAGE
APPROVAL:	DRAWN: F.Pichon DATE: 23/08/16			1	A
CHECKED:					
SCALE: 1:500 (A3)	DWG NO:1				
ALL DIMENSIONS ARE IN m					



Fire Sprinkler Installations NZ Ltd
Installers of Fire Alarm and Sprinkler Systems

nd Floor

ben@firesprinklernz.com PH 027 201 6979 PO Box 50 Temuka 45 Hally Terrace Temuka					
Date	14/3/18	Drawn By	Ben Smith	Scale	
Title	NZDCG Fire System Ground Floor AA Loop			Page	1 of 6
				Plan #	NZD 1



Fire Sprinkler Installations NZ Ltd
Installers of Fire Alarm and Sprinkler Systems

nd Floor

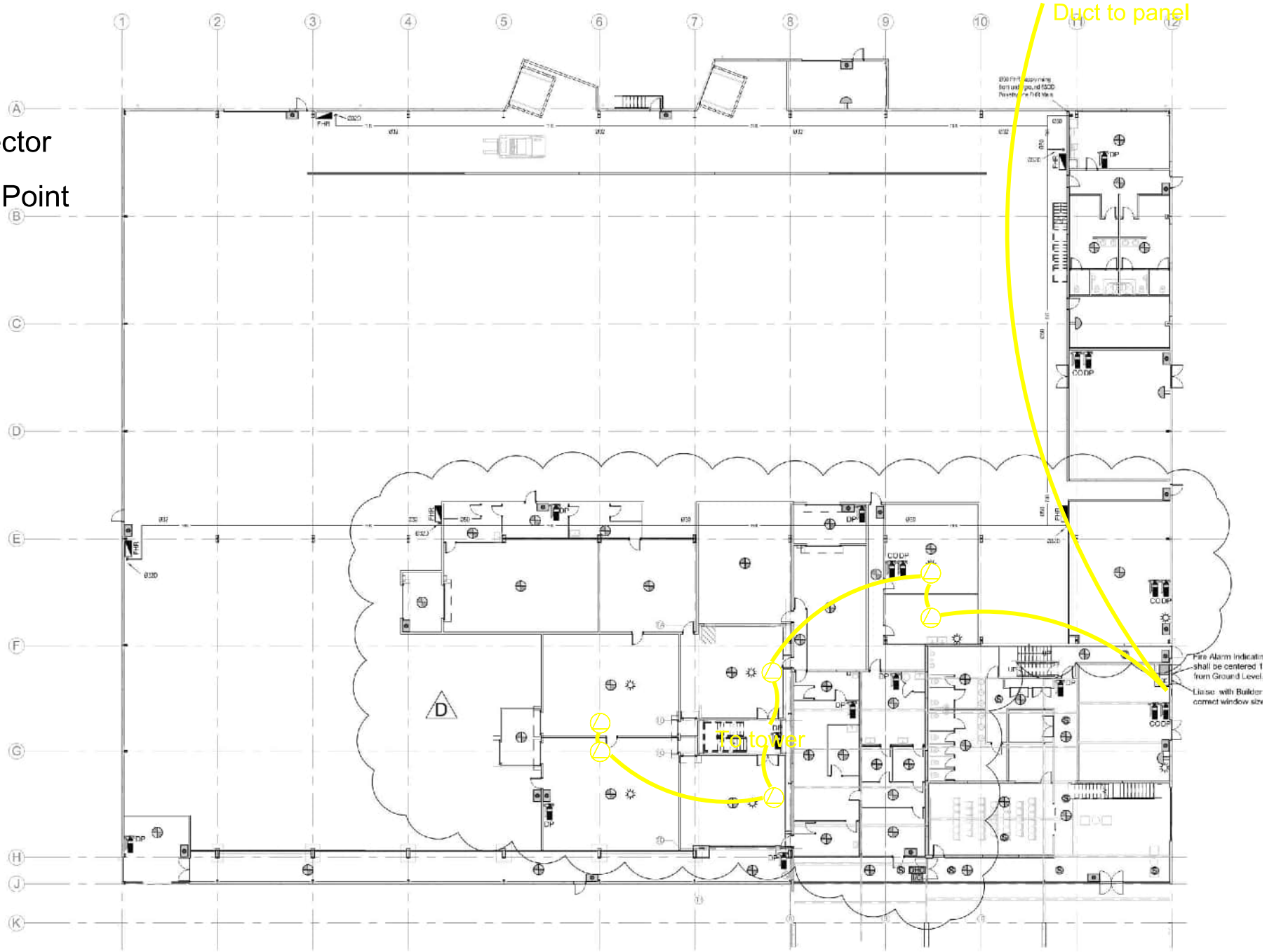
ben@firesprinklernz.com PH 027 201 6979 PO Box 50 Temuka 45 Hally Terrace Temuka					
Date	14/3/18	Drawn By	Ben Smith	Scale	
Title	NZDCG Fire System Ground Floor Sounder			Page	2 of 6
				Plan #	NZD 2

Smoke Detector

Manual Call Point

Sounder

Strobe



Fire Sprinkler Installations NZ Ltd
Installers of Fire Alarm and Sprinkler Systems

nd Floor

ben@firesprinklernz.com PH 027 201 6979 PO Box 50 Temuka 45 Hally Terrace Temuka					
Date	14/3/18	Drawn By	Ben Smith	Scale	
Title	NZDCG Fire System Ground Floor Strobes			Page	3 of 6
				Plan #	NZD 3

signature throughout
4. Provide Fire alarm zones up to 2000m² and all devices to have unique and consistent device identification labels.
5. Sprinkler system to interface with alarm system.

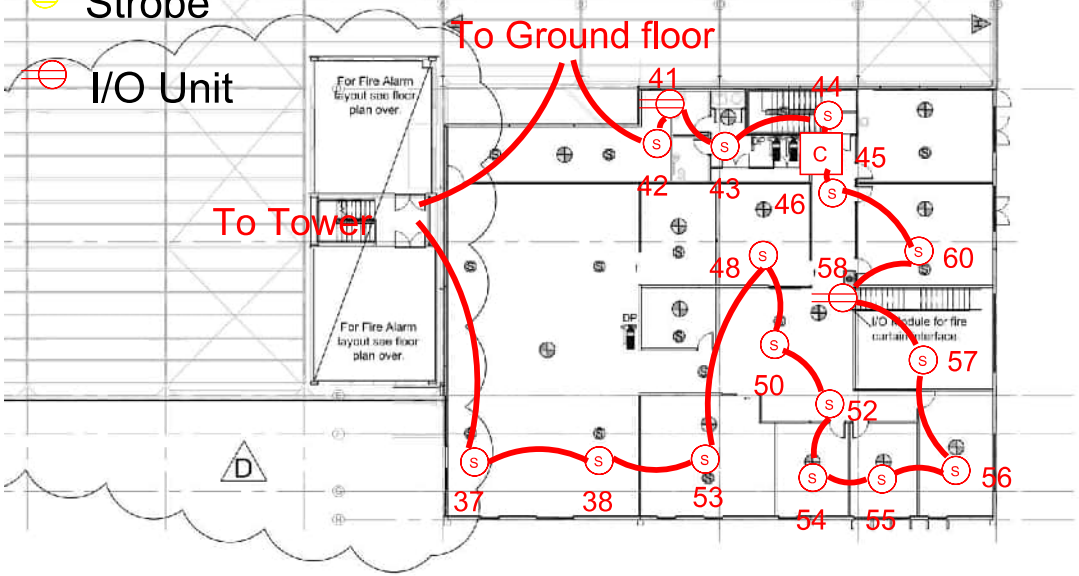
Smoke Detector

Manual Call Point

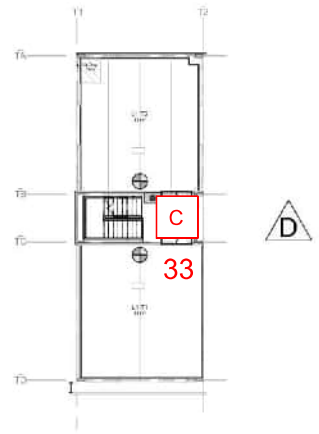
Sounder

Strobe

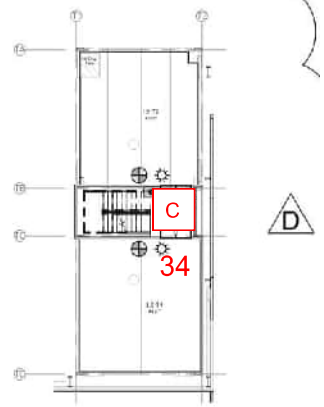
I/O Unit



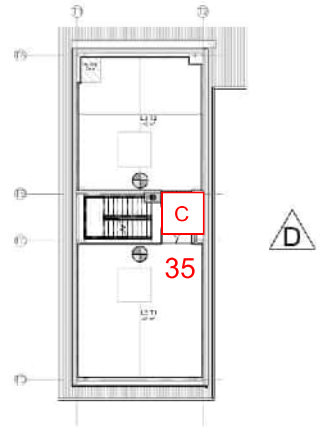
First Floor Plan



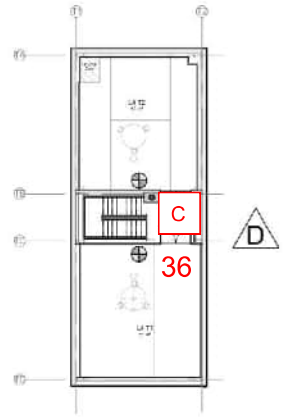
Tower Level T1 - RL4.000
1:100



Tower Level T2 - RL6.600
1:100



Tower Level T3 - RL11.300
1:100



Tower Level T4 - RL15.600
1:100

AMENDMENT	
D	Revised for new Processing Rooms and Tower
C	Issued for Construction
B	Amended as shown
A	Issued for Tender

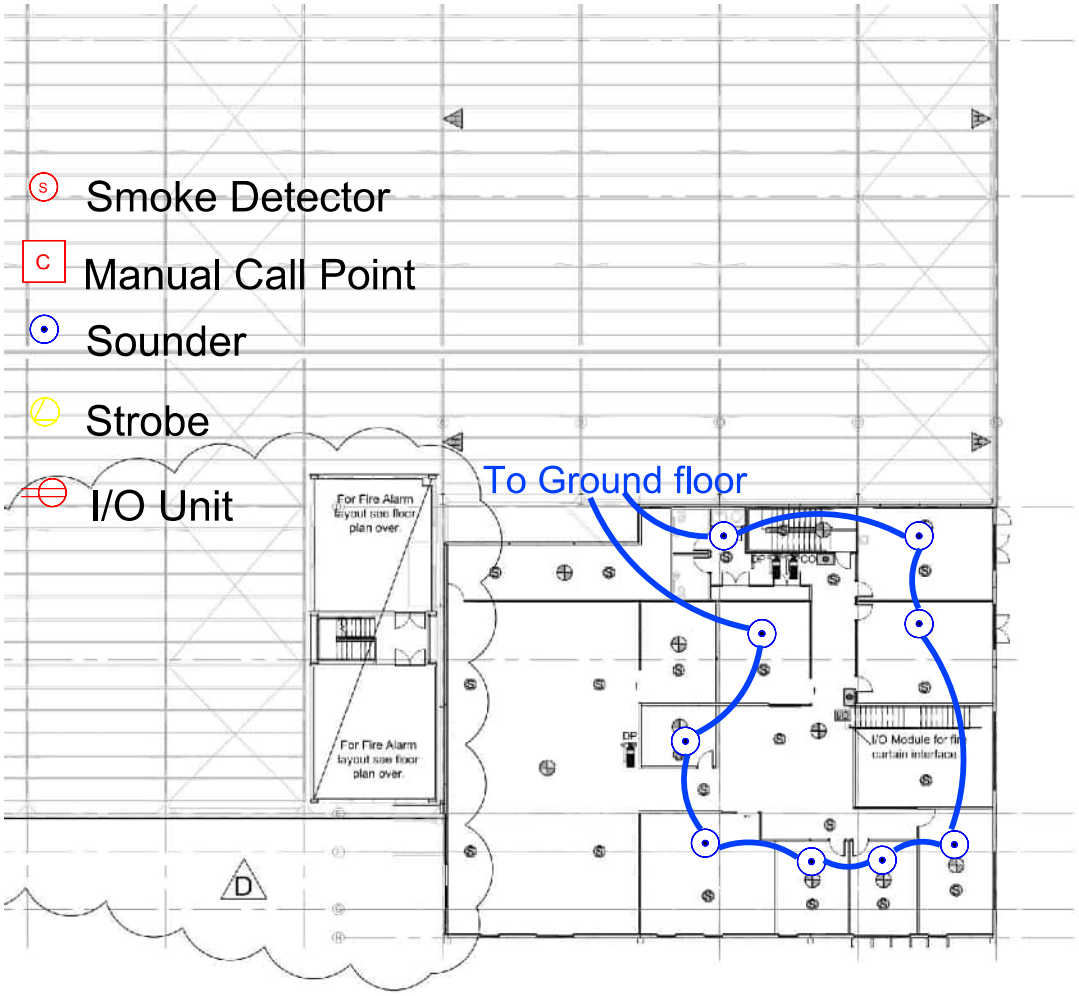
NOTE DO NOT SCALE - CHECK ALL DIMENSIONS ON SITE

ben@firesprinklernz.com PH 027 201 6979 PO Box 50 Temuka 45 Hally Terrace Temuka

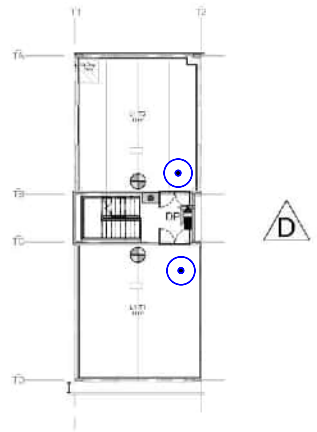
Date	14/3/18	Drawn By	Ben Smith	Scale	
Title	NZDCG Fire System First Floor AA Loop			Page	4 of 6
				Plan #	NZD 4

Fire Sprinkler Installations NZ Ltd
Installers of Fire Alarm and Sprinkler Systems

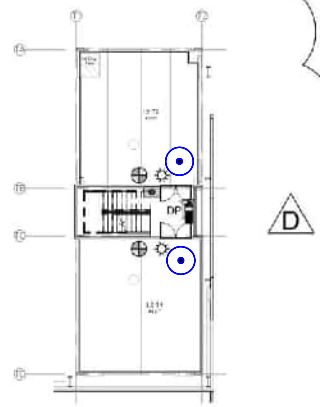
signature throughout
4. Provide Fire alarm zones up to 2000m² and all devices to have unique and consistent device identification labels.
5. Sprinkler system to interface with alarm system.



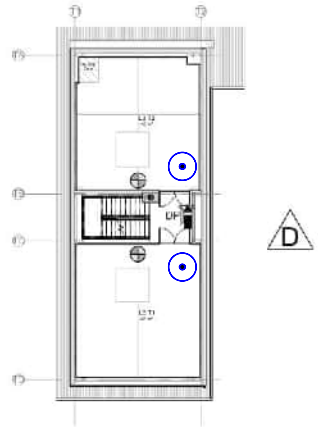
First Floor Plan



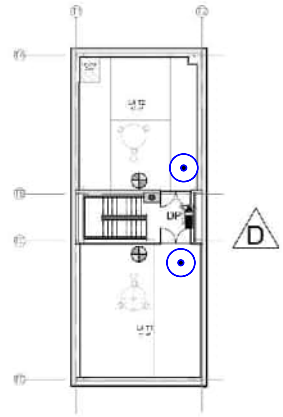
Tower Level T1 - RL4.000
1:100



Tower Level T2 - RL6.600
1:100



Tower Level T3 - RL11.300
1:100



Tower Level T4 - RL15.600
1:100

AMENDMENT	
D	Revised for new Processing Rooms and Tower
C	Issued for Construction
B	Amended as shown
A	Issued for Tender

NOTE DO NOT SCALE - CHECK ALL DIMENSIONS ON SITE

ben@firesprinklernz.com PH 027 201 6979 PO Box 50 Temuka 45 Hally Terrace Temuka

Date	14/3/18	Drawn By	Ben Smith	Scale	
Title	NZDCG Fire System First Floor Sounders			Page	5 of 6
				Plan #	NZD 5

Fire Sprinkler Installations NZ Ltd
Installers of Fire Alarm and Sprinkler Systems

signature throughout.

4. Provide Fire alarm zones up to 2000m² and all devices to have unique and consistent device identification labels.
5. Sprinkler system to interface with alarm system.

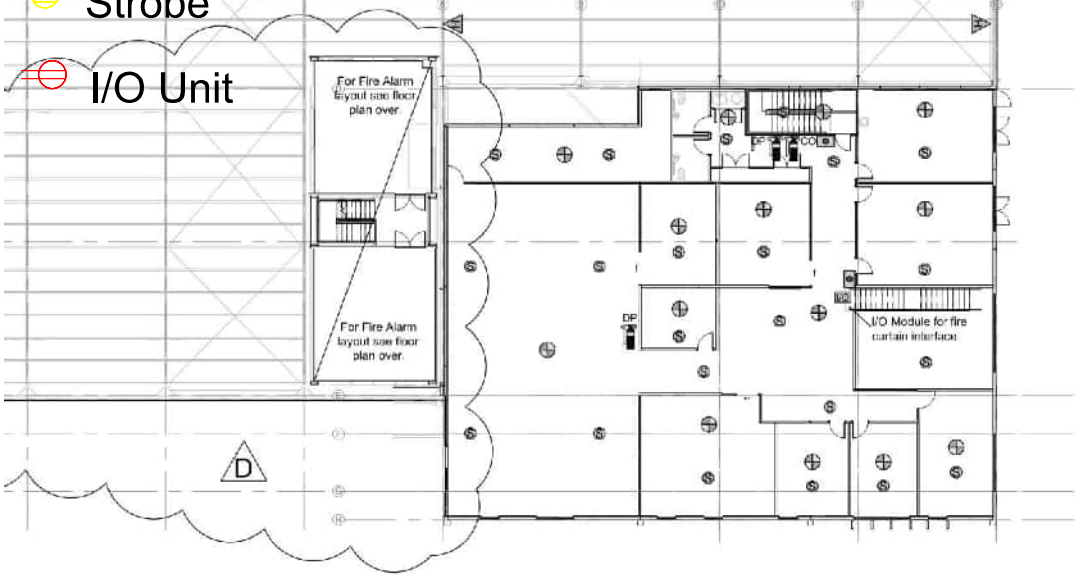
S Smoke Detector

C Manual Call Point

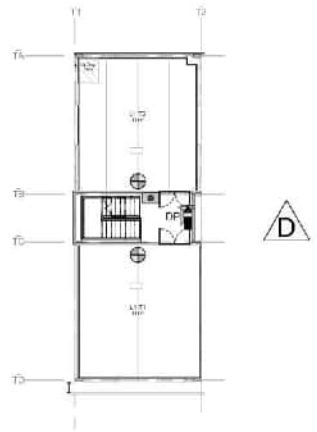
Sounder

Strobe

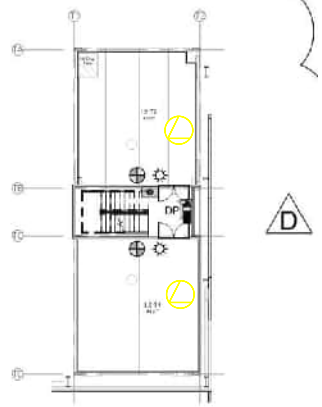
I/O Unit



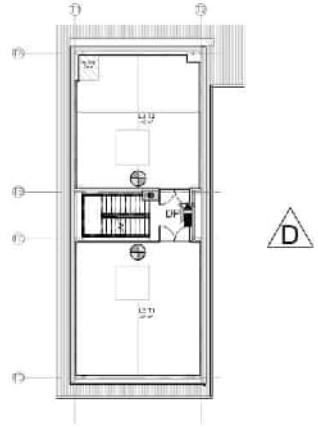
First Floor Plan



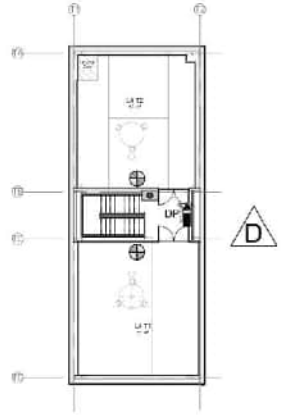
Tower Level T1 - RL4.000
1:100



Tower Level T2 - RL6.600
1:100



Tower Level T3 - RL11.300
1:100



Tower Level T4 - RL15.600
1:100

AMENDMENT	
D	Revised for new Processing Rooms and Tower
C	Issued for Construction
B	Amended as shown
A	Issued for Tender

NOTE DO NOT SCALE - CHECK ALL DIMENSIONS ON SITE

ben@firesprinklernz.com PH 027 201 6979 PO Box 50 Temuka 45 Hally Terrace Temuka

Date	14/3/18	Drawn By	Ben Smith	Scale	
Title	NZDCG Fire System First Floor Strobes			Page	6 of 6
				Plan #	NZD 6

Fire Sprinkler Installations NZ Ltd
Installers of Fire Alarm and Sprinkler Systems

Paul Summerfield Plumbing (2006) Ltd
125 Hollands Road, RD 1, Ashburton
admin@summerfieldplumbing.co.nz
03 3082109/0274 346815
* Craftsman Plumber * Gasfitter * Drainlayer
* Heating Engineer *Butynol Applicator

Boundary Backflow Device Test Certificate

The form provides proof that the boundary backflow device, located on the property specified below, has been maintained and tested as required under The Health Act 1956, and the Health (Drinking Water) Amendment Act 2007.

Section 1: Owner/Occupier Details

Name: New Zealand Dairies

Address: 9 Ashford Place

Section 2: Backflow Details

Site Address: 9 Ashford Place Ashburton.

Make of Device: Wilkin Zurn

Model Number: Double Check

Serial Number: J53856

Device Size: 4"

Device Location: Road side Boundary.

Water Meter #:

Section 3: Test Details

	Reduced Pressure Devices				
	Double Check Devices		Relief Valve	Pressure Vacuum Breaker	
	1st Check	2nd Check		Air Inlet	Check Valve
Initial Test	Closed Tight ☑ 26 kPa Leaked ☐	Closed Tight ☑ 26 kPa Leaked ☐	Opened at ____ kPa	Opened at ____ kPa Did Not Open ☐	____ kPa Did Not Open ☐
Repairs and Materials Used					
Test and Repair	Closed Tight ☐ ____ kPa Leaked ☐	Closed Tight ☐ ____ kPa Leaked ☐	Opened at ____ kPa	Opened at ____ kPa Did Not Open ☐	____ kPa Did Not Open ☐

Pass ☑ Fail ☐ Line Strainer Present ☑

Comments:

Air Gap Inspection

Air Gap Inspection Compliant: Yes ☐ No ☐

Discharge Pipe Inlet Obstructed: Yes ☐ No ☐

Spill Level Easily Determined: Yes ☐ No ☐

Section 4: Authorisation

I, the undersigned, herby declare that the information given on this test certificate is true and correct.

Name: Paul Summerfield

Signature: Paul Summerfield

Date: 20-9-19

IQP No.: 11697

Test Kit Serial No: 321438

Last Date of Calibration: 4-6-19

Company Name: Paul Summerfield Plumbing (2006) Ltd

Postal Address: 125 Hollands Road, RD 1, Ashburton 7771

Email: admin@summerfieldplumbing.co.nz

Phone: 03 3082109 Mobile: 0274 346815

Electrical Workers Registration Board

SAFETY | COMPETENCY | COMPLIANCE

Electrical Certificate of Compliance and Electrical Safety Certificate

Reference/Certificate ID No: 07062018B

This form has been designed to be used by licensed electrical workers to certify that installations or Part installations under **Part 1 or Part 2 of AS/NZS 3000** are safe to be connected to the **specified** system of electrical supply.

LOCATION AND CONTACT

Location Details	9 Ashford Ave Ashburton	**Contact Address**	9 Ashford Ave Ashburton
Contact Name	NZDCL		**Postcode**
Name of Electrical worker:	G McCormick	Registration/Practising licence number:	E264831
Organisation/ company:	Get Wired Electrical Ltd		
Phone:	0220109248	Email:	getwiredelectrical@hotmail.com
Name of person(s) supervised:	V Braam R Burges M Harvey C Gallahger		

CoC

Type of work:	○ Additions	○ Alterations	● New work
The prescribed electrical work is:	○ Low risk	○ General	● High risk (specify):
Reference Standards:	○ Part 1 of AS/NZS 3000		● Part 2 of AS/NZS 3000
	○ Additional Standards:		

Description of work: (including date/s of work and type of supply system)

Installed 160A rated Bremca Distribution Switchboard 185mmAl 4C submain from Main Switchboard Livened and tested

I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct in that the installation, or part of the installation:

Select those that apply:

- ✔ Has been installed in accordance with the specified certified design[1]
- ✔ Has an earthing system that is correctly rated (where applicable)
- ✔ Contains fittings that are safe to connect to a power supply
- ☐ Relies on a supplier Declaration of Conformity[1]
- ✔ Has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010
- ✔ Is safe to connect

Test Results	
Polarity (independent earth):	PASS
Insulation resistance:	PASS
Earth Continuity:	PASS
Bonding:	PASS
Fault Loop impedance:	PASS
Other (specify):	

Electronic/Other reference: 07062018C

Certifier's signature:

Date: 07 / 06 / 2018

[1] Attach or reference. If it is impractical to attach a copy of a particular manufacturer's instructions, or of any certified design or supplier declaration of conformity, provide a reference to where the documents can be found, in a readily accessible format, by electronic means.

ESC

I certify that the installation, or part of the installation, to which this Electrical Safety Certificate applies is connected to a power supply and is safe to use.

Certifier's name: G McCormick

Registration/Practising licence number: E264831

Certifier's signature:

Certificate Issue Date: 07 / 06 / 2018

Connection Date: 1 / 06 / 2017

CUSTOMER COPY – THIS IS AN IMPORTANT DOCUMENT AND SHOULD BE RETAINED FOR A MINIMUM OF 7 YEARS

This certificate also confirms that the electrical work complies with the building code for the purposes of Section 19(1)(e) of the Building Act 2004.

MB14132 04/17

Ashburton DISTRICT COUNCIL

As Built Drainage Plan Template

NZ Dairies

BAM 117
Version: 3
Updated: Jul 2013
Review: Jul 2014

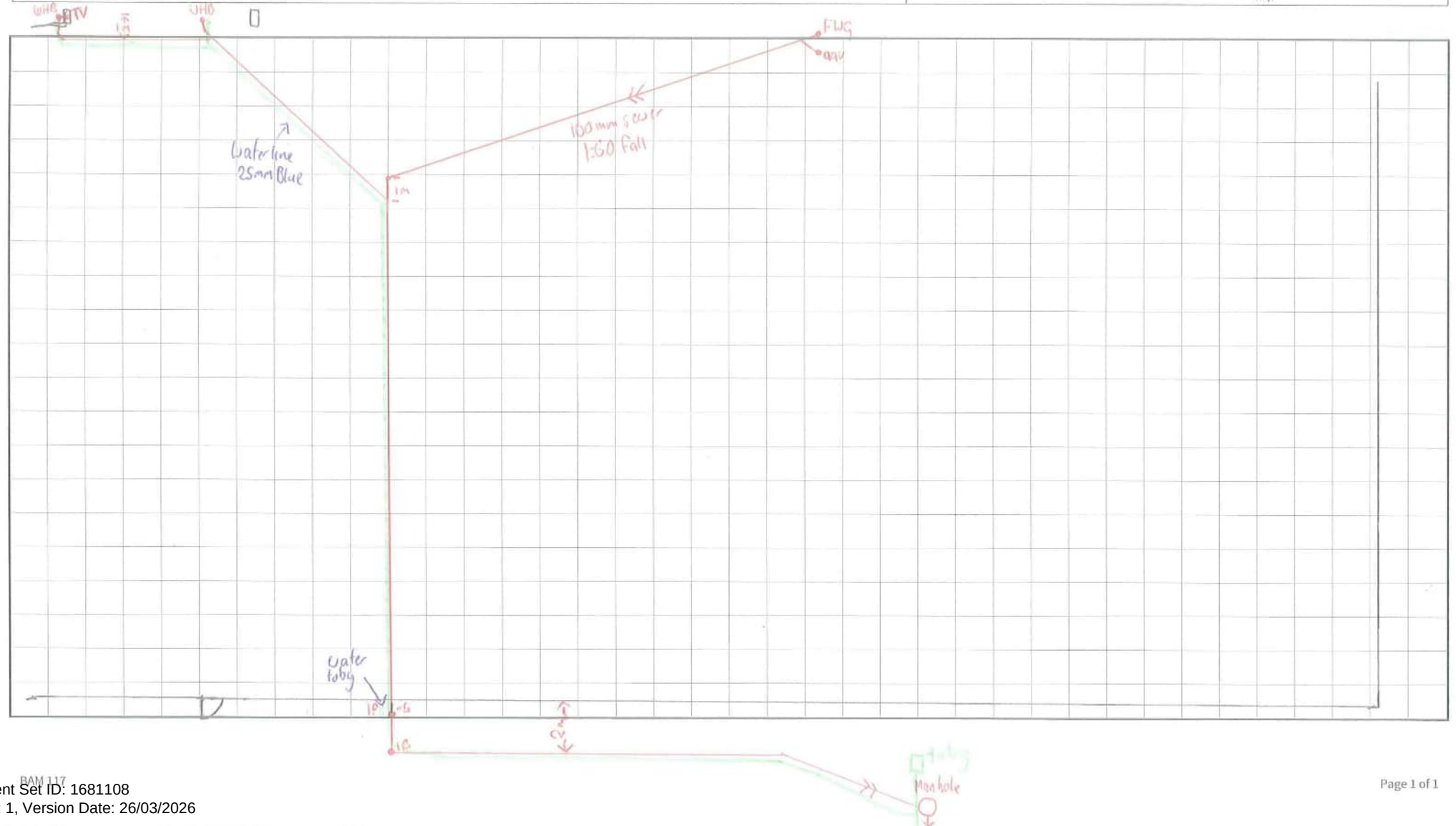
BC No: 0037/16 Site Address:

Assessment No: Lot No: DP:

Plumber: Mark Summerfield Reg No: 18176 Drainlayer: Mark Summerfield Reg No: 18176

Please provide the following items:

1 Foot print of the building (Scale 1:100).
2 Stormwater drain - including down pipe positions (blue ink).
3 Water line (green ink).
4 Toby shut-off valve.
5 Gulley trap positions.
6 Terminal vent positions.
7 Under slab drainage.
8 Foul water drains (red ink).
9 Septic tank and effluent lines (red ink).



COMPLIANCE SCHEDULE STATEMENT
Section 105, Building Act 2004

Compliance Schedule Number: CS0780 Form 10

The Building

Street Address of Building:	9 Ashford Avenue ASHBURTON DISTRICT	Current, Lawfully Established, Use:	Processing and Storage
Lot No:	17	Intended Use: *(in detail)*	Processing and Storage
DP No:	427688		
Property No:	21629	Intended Life:	Indefinite
Valuation Roll No:	2443034858	No. of Occupants per level:	141
Building Name:	Goat Infant Formula Blending Factory	No. of Occupants per use *(if more than 1)*:	
Location of Building within Site/Block Number:		Year First Constructed:	2017

The Owner

Name of Owner:	New Zealand Dairy Collaborative Limited
Contact Person:	New Zealand Dairy Collaborative Limited
Mailing Address:	PO Box 130 ASHBURTON 7740
Street Address/ Registered Office:	9 Ashford Avenue ASHBURTON DISTRICT

Phone Numbers

Daytime:	3077700
Landline:	03 307 7700
Mobile:	n/a
After Hours:	
Fax:	03 308 1836
E-Mail:	info@adc.govt.nz

System or Feature:

The following specified systems are covered by the compliance schedule for this building:
- SS01 Automatic systems for fire suppression/Sprinklers
- SS02 Automatic or manual emergency warning systems for fire or other dangers…
- SS03/1 Automatic doors
- SS03/2 Automatic doors – Access Controlled Doors
- SS04 Emergency lighting systems
- SS07 Automatic back-flow preventer connected to a potable water supply
- SS09 Mechanical ventilation or air conditioning systems
- SS13 Smoke Control Systems
- SS14 Emergency power systems for or signs to relating to a system or feature in any of clauses 1 to 3
- SS15/b Final Exit Doors
- SS15/c Fire Separations
- SS15/d Signs for communication

Refer to Compliance Schedule Attachments for System descriptions, Performance Standards, and Inspection/ Maintenance/ Reporting Procedures.

The Compliance Schedule is to be kept at: 9 Ashford Avenue ASHBURTON DISTRICT

Signature

Rachel Aldridge
Technical officer

On behalf of Ashburton District Council - 7 October 2020
This statement is valid for **12 months** from the date stated above

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)*:	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS 1
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Automatic systems for fire suppression/Sprinklers Type 6 Sprinkler System
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	NZS 4541:2013
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	Frequency of inspection is dependent upon the type of installation, and shall be weekly, monthly, quarterly, annually, biannually not exceeding 28 months and 4 yearly as prescribed in the relevant referenced Standards. Automatic sprinkler systems shall be maintained in accordance with NZS 4541:2013 as is appropriate for the installation. All inspections to be carried out by an Independent Qualified Person.
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	Automatic sprinkler systems shall be maintained in accordance with NZS 4541:2013 as is appropriate for the installation. All maintenance to be carried out by an Independent Qualified Person.
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency - i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All tests, Inspections and maintenance carried out by Independent Qualified Person are to be recorded in the Buildings Maintenance Register that specifically identifies such procedures as set out in the buildings compliance schedule.

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)*:	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS2
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Automatic or manual emergency warning systems for fire or other dangers (other than a system for fire that is entirely within a household unit and serves only that unit) Type 7 (Type 4 Office with 11 Smoke Detectors & Manual System in Production Warehouse)
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	NZS 4512:2010
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	Emergency warning systems shall be inspected regularly to ensure continued effective operation. Content of the inspections for the different inspection frequencies shall be in accordance with the following referenced Standards: i) Automatic and manual fire alarms - Monthly, Annually - NZS 4512:2010
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	Emergency warning systems shall be maintained in accordance with the appropriate Standard referenced above. All maintenance to be carried out by an Independent Qualified Person.
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency - i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All tests, Inspections and maintenance carried out by the owner or an Independent Qualified Person are to be recorded in the Buildings Maintenance Register that specifically identifies such procedures as set out in the buildings compliance schedule

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)*:	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS3/1
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Automatic Doors
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	As Compliance Schedule Handbook
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	Automatic doors shall be inspected regularly to ensure continued effective operation. As a minimum, inspections should be carried out: i) Daily, when the building is in use, for crowd occupancies (CS, CL, CO, CM) and for all buildings where building work is occurring that may affect an access control door on an escape route. **Monthly Inspections** – Check the doors can be opened and they are not – Locked, Barred or Blocked. **6 Monthly –** Check Battery Back-Up, Failsafe Devices, Interface with Emergency warning system. Responsibility Monthly inspections maybe carried out by the owner, all annual inspections to be carried out by an Independent Qualified Person.
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	Automatic fire doors and fire shutters shall be maintained to ensure continued effective operation and fire separation integrity, and in particular compliance with the requirements (1) to (x) above. **Responsibility** All maintenance to be approved or carried out by an Independent Qualified Person.
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency - i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All building maintenance and inspection records relating to this specified system to be held on site and to be available to any authorised inspection agency. Owner to maintain register on site and all inspections to be signed off and approved by an Independent Qualified Person.

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)*:	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS3/2
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Automatic Doors – Access Controlled Doors Swipe Card/Proximity Card/Key Pad Access Doors
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	As Compliance Schedule Handbook
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	Automatic doors shall be inspected regularly to ensure continued effective operation. As a minimum, inspections should be carried out: ii) Daily, when the building is in use, for crowd occupancies (CS, CL, CO, CM) and for all buildings where building work is occurring that may affect an access control door on an escape route. **Monthly Inspections** – Check the doors can be opened and they are not – Locked, Barred or Blocked. **6 Monthly –** Check Battery Back-Up, Failsafe Devices, Interface with Emergency warning system. Responsibility Monthly inspections maybe carried out by the owner, all annual inspections to be carried out by an Independent Qualified Person.
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	Automatic fire doors and fire shutters shall be maintained to ensure continued effective operation and fire separation integrity, and in particular compliance with the requirements (1) to (x) above. **Responsibility** All maintenance to be approved or carried out by an Independent Qualified Person.
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency - i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All building maintenance and inspection records relating to this specified system to be held on site and to be available to any authorised inspection agency. Owner to maintain register on site and all inspections to be signed off and approved by an Independent Qualified Person.

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)*:	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS4
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Emergency lighting systems
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	AS/NZS 2293:1995 Part 2 Inspection and Maintenance
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	Inspections shall be **Six monthly and Annually**, with inspection content being in accordance with AS/NZS 2293:1995 for the inspection frequency. Emergency lighting systems shall be maintained in accordance with AS/NZS 2293. Annual & Six Monthly inspections to be carried out by an Independent Qualified Person.
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All maintenance to be approved by an Independent Qualified Person.
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency - i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All tests, Inspections and maintenance carried out by the owner or an Independent Qualified Person are to be recorded in the Buildings Maintenance Register that specifically identifies such procedures as set out in the buildings compliance schedule.

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)*:	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS7
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Automatic back flow preventers connected to a potable water supply – Roadside Boundary Wilkin Zurn 375
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	NZBC G12/AS1 (AS/NZS 2845.1.3)
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	Testing shall be done in accordance with G12/AS1 (AS/NZS 2845.3) and shall be before use after installation, after repair and annually.
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	Automatic back-flow preventers shall be immediately repaired or replaced if they fail the inspection test. The person responsible for installation testing and maintenance shall be an independent Qualified Person (IQP).
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All tests, Inspections and maintenance carried out by the or an Independent Qualified Person are to recorded in the Buildings Maintenance Register that specifically identifies such procedures as set out in the buildings compliance schedule owner

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)*:	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS9
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Mechanical Ventilation or air conditioning system. Fire Dampers shutdown/Exhaust on Smoke Alarm. X2 Systems, AMT Managing Office Area, Plant Control; System.
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	AS 1668.1 Maintenance – AS1851
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	Mechanical ventilation and air conditioning systems shall be inspected 6 Monthly/Half yearly/Yearly in accordance with the AS1856. And the installer' recommendations for functional operation and inspection frequency as recorded in the maintenance manual. Which will require inspection every three months (though not necessarily all system elements on each occasion)
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	Maintenance on the mechanical systems shall be completed as required which is usually either planned maintenance(such as cleaning and maintaining filters) or maintenance that has been picked up during the inspections(or faults in the system)
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All tests, Inspections and maintenance carried out by the or an Independent Qualified Person are to recorded in the Buildings Maintenance Register that specifically identifies such procedures as set out in the buildings compliance schedule owner

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)***:**	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS13
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Smoke control systems Fire/Smoke curtain to edge of two level space
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	6 Monthly & Annually in accordance with AS1851 by Independent Qualified Person.
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	Planned preventative maintenance and responsive should be carried in accordance with the nominated performance and inspection Standard or document, and to ensure effective operation for the required duration on the event of a fire.
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All tests, Inspections and maintenance carried out by the owner or an Independent Qualified Person are to recorded in the Buildings Maintenance Register that specifically identifies such procedures as set out in the buildings compliance schedule.

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)*:	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS14/2 – System Signage
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Emergency power systems for or signs relating to a system or feature specified in any of clauses 1 to 13 – Fire Alarm call points/door activation signage/sprinkler storage
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	Signs shall be inspected monthly to ensure continued effectiveness, and in particular that they are of the correct type, are present and in the right locations, and are legible.
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	Signs shall be refurbished before they become illegible, and shall be replaced immediately should they be missing. Defects in illuminated emergency signs shall be remedied immediately they are apparent. **Monthly** by Owner/Occupier **Annual** inspection to be carried out by an Independent Qualified Person.
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	Signs shall be refurbished before they become illegible, and shall be replaced immediately should they be missing. Defects in illuminated emergency signs shall be remedied immediately they are apparent. Annual inspection to be carried out by an Independent Qualified Person.
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency - i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All building maintenance and inspection records relating to this specified system to be held on site and to be available to any authorised inspection agency. Owner to maintain register on site and all inspections to be signed off and approved by an Independent Qualified Person.

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)*:	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS15/b
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Final exit doors
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	As Compliance Schedule Handbook. Signs will visible under all foreseeable conditions including interruption of mains power.
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	Means of escape shall be inspected: * Monthly, and * Annually. Inspections shall be made to ensure that final exits perform as designed for safe evacuation, and in particular that: i) Final exits are kept clear of obstacles and hazards. ii) Final exit doors are not locked, barred, or blocked so as to prevent occupants from leaving the building in the event of an emergency without the use of a key. Annual Inspections to be carried out by an Independent Qualified Person.
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	Final exit doors shall be maintained in accordance with the appropriate Standard referenced above. Any maintenance shall be carried out immediately a defect is noticed. All Inspections to be approved by an Independent Qualified Person.
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency - i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All tests, Inspections and maintenance carried out by the owner or an Independent Qualified Person are to recorded in the Buildings Maintenance Register that specifically identifies such procedures as set out in the buildings compliance schedule

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)*:	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS15/c
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Fire Separations
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	As Compliance Schedule Handbook.
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	Inspections of fire separations are to be carried out monthly and annually. Annual Inspections to be carried out by an Independent Qualified Person. **Monthly by Owner/Occupier** – Check for damage, including new penetrations, to separations and operation of doors and security of other closures. Any damage/failure of door operation or other closure to be repaired ASAP. **Annually by Independent Qualified Person –** As above.
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All fire separations shall remain imperforate and any closures in the separation shall ensure they would prevent the passage of fire for the period given as fire resistance rating. Responsive maintenance should be carried out to ensure fire separations prohibit the spread of fire and, in the case of fire doors, occupants are not prevented from leaving the building in the event of an emergency.
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency - i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All tests, Inspections and maintenance carried out by the owner or an Independent Qualified Person are to recorded in the Buildings Maintenance Register that specifically identifies such procedures as set out in the buildings compliance schedule

COMPLIANCE SCHEDULE

Section 105, Building Act 2004

ATTACHMENTS / SPECIFIED SYSTEMS

Building Name:	**Goat Infant Formula Blending Factory**
Site Location *(applicable address)*:	**9 Ashford Avenue ASHBURTON DISTRICT**
CS Ref No:	**CS0780**
Date Issued:	**7 October 2020**

Specified systems: *(name the system e.g. SS1, SS4,SS15 etc)*	SS15/d
System description: *(Include a basic description of the system, including make and model, purpose, location and extend of installation. Include references to plans and specifications where relevant).*	Signs for communication – Exit Signs
Performance standard: *(the performance standard may be a reference to a Compliance Document, Standard or specific documentation depending on what each specified system was designed and installed to)*	AS 2293:2005 parts 1 & 3. AS/NZS 2293.2:1995
Inspection Procedure: *(Inspection procedures may be identified by a written description, or a reference to a standard or other document. If written attach to rear as a separate document) (where applicable include, frequency -i.e. Daily, Monthly, Annually- or state as per the applicable standard)*	**Monthly by Owner/Occupier –** Ensure signs are in place where required, they are legible and clean and are illuminated. **Yearly by Independent Qualified Person –** In accordance with AS/NZS 2293.2
Maintenance procedure: *(Maintenance procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document). (where applicable include, frequency -i.e. Daily, Monthly, Annually or state as per the applicable standard)*	Signs are to be replaced when they are not legible or of the correct type. All maintenance to be approved out by an Independent Qualified Person.
Reporting Procedures: *(Reporting procedures may be identified by a written description or a reference to a Standard or other document. If written, attach to rear as a separate document) (where applicable include, frequency - i.e. Daily, Monthly, Annually or state as per the applicable standard)*	All tests, Inspections and maintenance carried out by the owner or an Independent Qualified Person are to recorded in the Buildings Maintenance Register that specifically identifies such procedures as set out in the buildings compliance schedule

Fire Engineering Design Report

Infant Formula Blending Plant
9 Ashford Ave, Ashburton

Issue B
23 January 2016
Job No 15073

Fire Engineering Consultants

ASBIC Consultants Ltd, 229 Flag Swamp Rd, RD2, Waikouaiti 9472, Dunedin, NZ
P 03 465 8255 • M 027 270 5885 • office@asbic.co.nz

Document Use

Note that this fire engineering design report is a performance document intended to be used by other consultants (Architect, Structural Engineer, Fire Protection Consultant, Electrical & Mechanical Consultants etc) to prepare working drawings and specifications for tender, consent & construction. It is not a detailed specification document for tender or construction purposes. The consultants whose documentation is required to incorporate the requirements of this fire engineering design are expected to have read this report, understood the implications as it affects their scope of work and have incorporated the relevant Protection from Fire requirements into their drawings and specifications.

If the fire safety features listed in this report are implemented ASBIC Consultants are satisfied on reasonable grounds that the objectives of the Building Act 2004 and the NZ Building Code will be satisfied. Please note that the fire safety features listed are the MINIMUM required to comply with the Building Act 2004 and the NZ Building Code and do not cover protection of the building and its contents.

Bruce Collins
NZCE, PMSFPE (Int) No 9423, MIAFSS
SBCG Producer Statement Author No PSA/2014/88
LBP No BP113748

Issue Status

Issue	Date	Details
A	30 November 2015	Draft Issue - not intended for the Territorial Authority or Fire Service
B	23 January 2016	Building Consent issue shell only

Contents

1. Summary of Fire Features Required

The main requirements of the report are summarised below however the full report needs to be read in its entirety to ensure all requirements are met. Read this summary in conjunction with the included plans.

Note that this consent will need to be sent by the Council to the NZ Fire Service Engineering Unit and an additional set of documents may be required.

1.1. Active Fire Systems

1.1.1. Install type 6 automatic fire sprinkler and manual call point system throughout the building. Alarm system to comply with NZBC Acceptable Solution F7/AS1 and NZS 4512:2010, and sprinklers to comply with NZS 4541:2013 (or NZS 4515:2009 if applicable).

1.1.2. Install supplementary smoke detection to both floors of the offices firecells. This is to extend permissible travel distance and Fire Service connection is not required.

1.1.3. Requirements:

a) An analogue addressable system is strongly recommended but not mandatory for NZ Building Code compliance. Confirm with building owner.
b) Alarm system to comply with NZBC Acceptable Solution F7/AS1 and NZS 4512:2010. Note that the alarm system must be certified by an IANZ accredited inspection body and a maintenance & inspection agreement entered into with an alarm company.
c) Sprinkler system to comply with NZS 4541:2013. Appendix B of Approved Document C/AS6 does not apply. Note that the sprinkler system must be certified by an accredited sprinkler system certifier (SSC).
d) Sprinkler and manual call point operation shall call the Fire Brigade and interface to the Fire Alarm system so that all the Fire Alarm Warning Devices operate thus causing a full building evacuation.
e) Note that security smoke detectors must not be installed on the fire alarm system. We do not recommend security smoke detectors unless installed completely in compliance with NZS 4512 (ie wiring, detector spacing, location, etc must comply).
f) Provide strobe lights in addition to sounders in areas of high ambient noise levels
g) Install interface with alarm systems for door activations. Refer below
h) Location of fire alarm panel to be agreed between designer and NZ Fire Service before construction commences. Suggested location shown on the attached plan.

1.1.4. Ensure ventilation systems (within the smoke detector protected area) not required or designed for fire safety, and excluding non-distributed ventilation and air-conditioning (such as typical domestic/commercial heat pump units) shut down on activation of the smoke detection system. Where the ventilation system is capable of providing a smoke clearance function provide a fire fan control switch adjacent the fire panel for Fire Service use.

1.1.5. Install emergency lighting, complying with NZ Building Code F6, Acceptable Solutions F6/AS1, G9/AS1, and AS/NZS 2293:1:2005, 2293:2:1995 & 2293:3:2005 (as modified by F6/AS1) to the following areas (refer attached plans):

a) In all exitways (1 lux)
b) At every change of level in an escape route (1 lux)
c) In an escape route from the point where the initial open path travel distance exceeds 20m (0.2 lux)

Emergency luminaires to be self-contained type that illuminate on power failure.

1.1.6. Install illuminated “Exit” signage (white on green background) complying with NZ Building Code Acceptable Solution F8/AS1 to locations shown on the attached plan. Note that locations shown do not take into account possible obscuration by plant, fittings etc and supplementary signage may be needed. Similarly additional signs or non-standard large signs may be required to ensure sign height complies with viewing distance.

Provide illuminated “No Exit” (white on red background) sign at head of stairs where fire curtain descends.

Illuminated exit signage to be self-contained type that illuminates on power failure and smoke alarm activation (non-maintained) or is continuously illuminated (maintained) if smoke detectors are not present.

Photoluminescent signs are not permitted.

Exit signs shall display the words “Exit” or “Emergency Exit” or may be pictograms complying with F8/AS1. Note that pictograms must have directional arrows in all cases (apart from over the exit door) and the “running man” must be shown as running in the correct direction.

Where exit signs are provided to identify a door on an escape route the sign shall be positioned on the leaf, at or above handle height, or on a vertical surface within 600mm of the door.

1.2. Passive Fire Systems

1.2.1. Provide 30/30/30 fire rating to mezzanine floor and its supporting walls.

1.2.2. Provide 60/60/60 fire rating to:

a) the first floor of the offices
b) walls separating the offices from the factory & production areas
c) walls separating the north stair from adjoining spaces
d) walls around the two level space/stair at first floor level
e) ceiling to two level space stair area.
f) vertical service ducts. Alternatively provide similar fire rating at floor level

1.2.3. Provide 180/180/180 fire rating to precast concrete panels on east and west elevations. Doors and windows are not fire rated.

1.2.4. Ensure that:

a) all fire rated primary elements (as above) are designed to resist collapse under the fire and emergency conditions required by AS/NZS 1170 and any additional loads caused by the fire (refer Structural Engineer)
b) all supporting elements of the fire rated elements above (eg beams, columns, load bearing walls etc) also retain structural integrity under fire loadings (ie 60/-/- for a 60 minute FRR and 30/-/- for a 30 minute FRR) This may require encasing or the use of intumescent paints to steel beams and columns. Note that enclosing steelwork within fire rated walls and floor/ceiling systems is unlikely to provide sufficient fire rating to the steel unless Gib walls and ceilings are GBUW or GBUC type.
c) all fire rated walls extend to the underside of the fire rated floor above or the underside of the roof sheeting
d) all fire separations within ceiling voids, service risers etc are annotated at regular intervals with “x/x/x FIRE SEPARATION” where x is the fire rating. An alternative is the use of continuous plastic tape annotated “FIRE WALL” and fixed to the wall.
e) any intumescent coatings have the finished coating thickness confirmed by independent testing to verify thickness complies with the paint manufacturer’s specification. Only intumescent coatings from Zone Architectural Products and Altex Coatings are recommended. Structural